

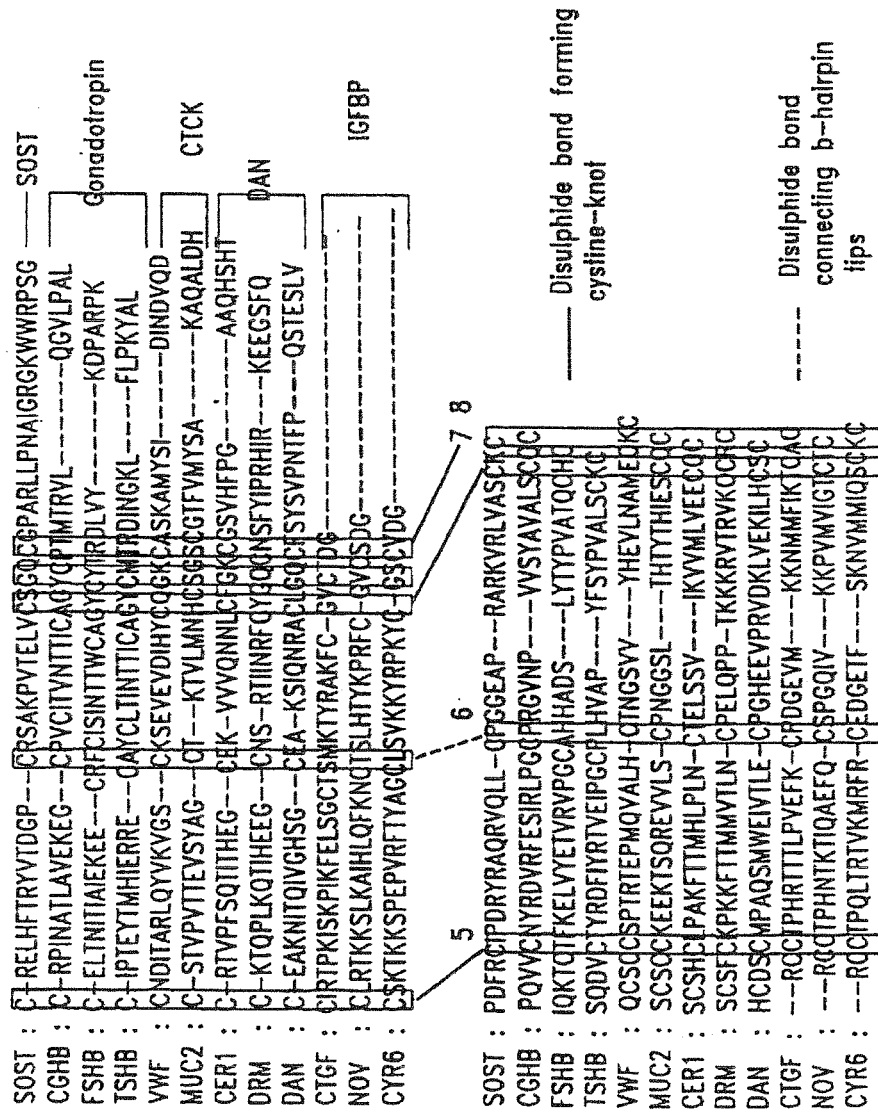
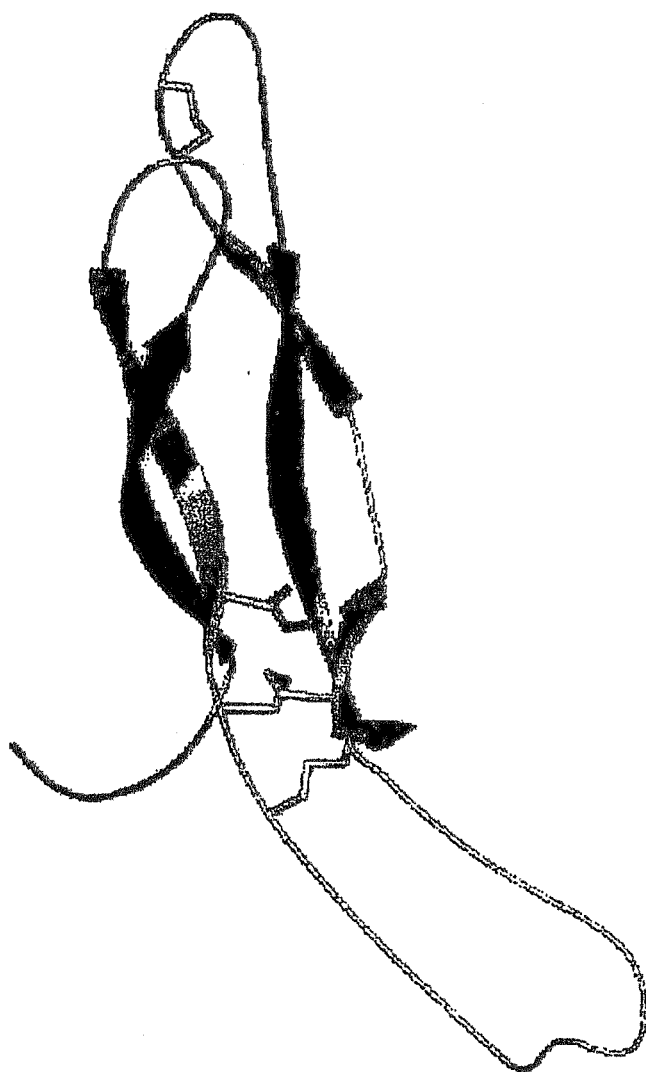
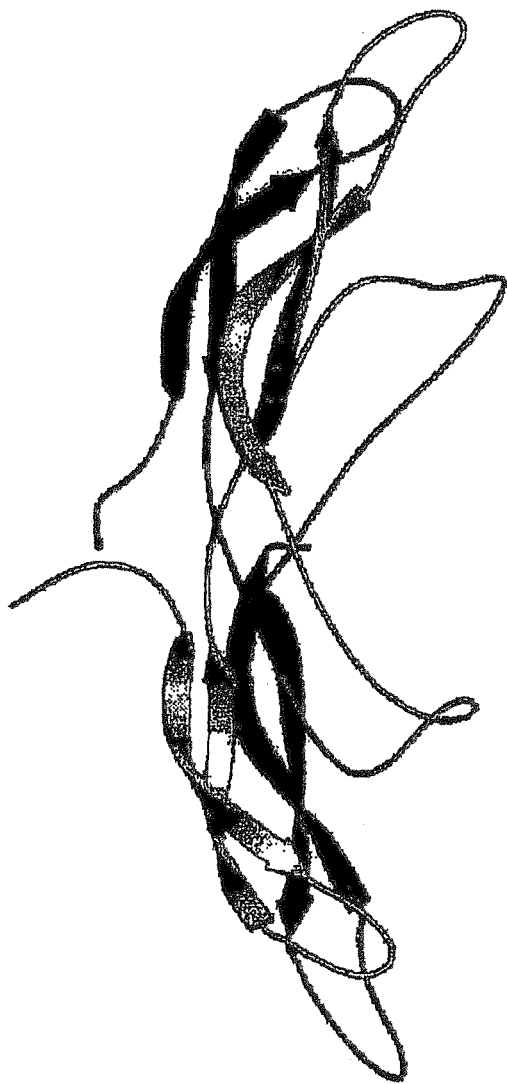


FIG. 1

*FIG. 2*

*FIG. 3*

	20	40	60	
NOGG_HUMAN :	QHYHIRPA--PSDNLPVLDTIEHPOPIFDPKEKDINETLLRSLGGHYDPGFMTSPPE	DRPG :	62	
NOGG_CHICK :	QHYHIRPA--PSDNLPVLDTIEHPOPIFDPKEKDINETLLRSLGGHYDPGFMTSPPE	DRLG :	62	
NOGG_XENLA :	QHYHIRPA--PSDNLPVLDTIEHPOPIFDPKEKDINETLLRSLGGHYDPGFMTSPPE	EERLG :	62	
NOGG_FUGRU :	QHYLLRP--PSDSLPIVELKEIPVFDPKERDINETELKSVLG-DFTSRFLSVLPAAEDGHA		62	
NOGG_ZEBRA :	QHYLLRP--PSDSLPIVELKEIPVFDPKERDINETELKSVLG-DFTSRFLSVLPAAEDGHA		62	
SOST_HUMAN :	QEWDA--FKNDATEIIP--ELGEMPEP--PPELENNQTMNRAENGGRP-PHIPFETKDV----		52	
SOST_RAT :	QEWDA--FKNDATEIIP--ELGEMPEP--PPELENNQTMNRAENGGRP-PHIPYDTKDV----		52	
SOST_MOUSE :	QEWDA--FKNDATEIIP--ELGEMPEP--PPELENNQTMNRAENGGRP-PHIPYDAKDV----		50	

	80	100	120	
NOGG_HUMAN :	GGGGAAGGAEDLAELDQLLRQPSGAMPSEIKGLEFSEGLAQGKKORLSKKLRRKLQMLVSTIF		127	
NOGG_CHICK :	-----VDDLAEIDLRLRQPSGAMPSEIKGLEFYDGLQPGKKHRLSKKLRRKLQMLVSTIF		119	
NOGG_XENLA :	-----VEDLGELDLRLRQPSGAMPSEIKGLEFYEGLOS-KKHRLSKKLRRKLQMLVSTIF		118	
NOGG_FUGRU :	G-----NDELDDFD-AQR--WGGALPKEIRAVDF-DAPQLGKKHKPSKKLRRKLQMLVSTIF		116	
NOGG_ZEBRA :	G-----QDELNESE-LMKQRPNGIMPKEIKAMEF-DIQ-HGKKHKPSKKLRRKLQMLVSTIF		117	
SOST_HUMAN :	-----SEYS		56	
SOST_RAT :	-----SEYS		56	
SOST_MOUSE :	-----SEYS		54	

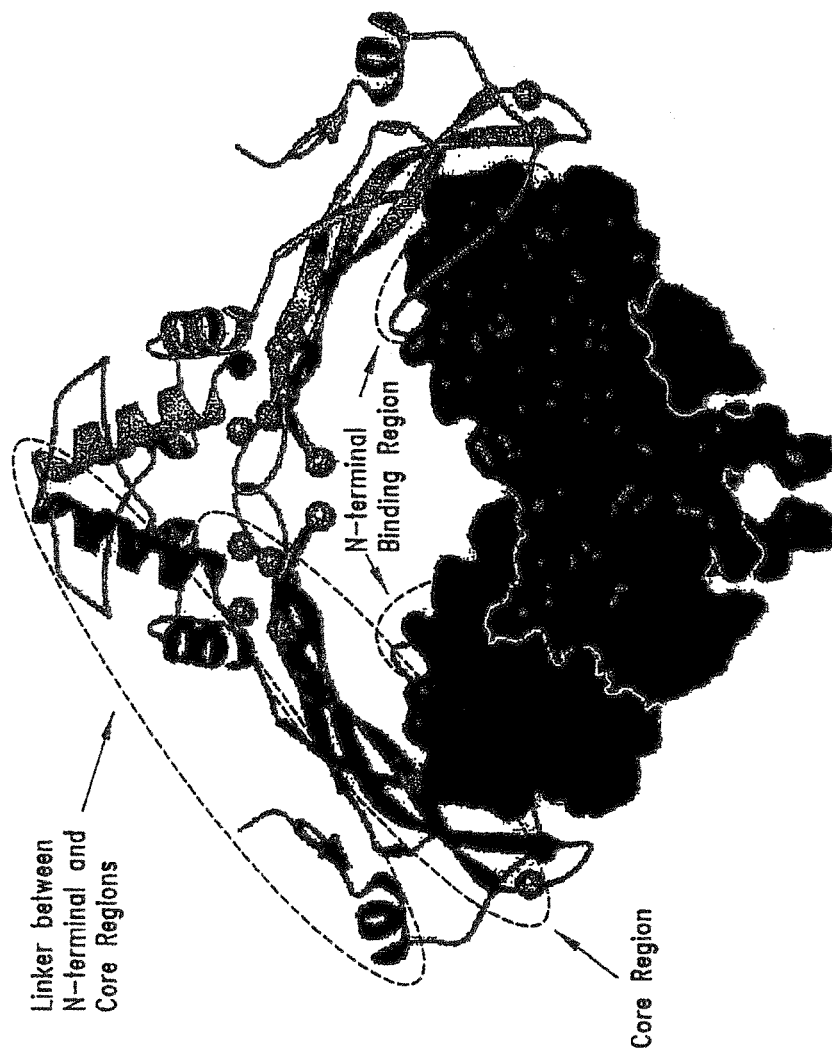
	140	160	180	
NOGG_HUMAN :	ICP-VLYA--WINDLGRFWRRMVKVGSFYSKRSCSVPEGM-----VCKPKSVHL		173	
NOGG_CHICK :	ICP-VLYT--WINDLGRFWRRMVKVGSFYSKRSCSVPEGM-----VCKPKSVHL		165	
NOGG_XENLA :	ICP-VLYT--WINDLGRFWRRMVKVGSFYSKRSCSVPEGM-----VCKPKSVHL		164	
NOGG_FUGRU :	ICP-LAHA--WINDLGRFWRRMVKVGSFYSKRSCSVPEGM-----TCKPATSTHL		162	
NOGG_ZEBRA :	ICP-VVHT--WINDLGRFWRRMVKVGSFYSKRSCSVPEGM-----VCKPKSVHL		163	
SOST_HUMAN :	ICRELHFTYNTIGPCRSKRVITELVCS--GCGPARILPNAIGRGKWRPNSGPDFRCIPDRYRAQ		119	
SOST_RAT :	ICRELHFTYNTIGPCRSKRVITELVCS--GCGPARILPNAIGRVKWRPNSGPDFRCIPDRYRAQ		119	
SOST_MOUSE :	ICRELHFTYNTIGPCRSKRVITELVCS--GCGPARILPNAIGRVKWRPNSGPDFRCIPDRYRAQ		117	

FIG. 4A

	200	220	240	260	
NOGG_HUMAN :	TIVLRWRCQ-RRGGHRCGWIPQYHIISEKCS	-----			: 205
NOGG_CHICK :	TII LRWRCQ-RRGGHRCGWIPQYHIIAEKCS	-----			: 197
NOGG_XENLA :	TII LRWRCQ-RRVQOKQAWITIQYFVISEKCS	-----			: 196
NOGG_FUGRU :	TII LRWRCVQRKVELKQAWIPMQYFVITDKCS	-----			: 195
NOGG_ZEBRA :	TIVLRWRCVQRKVELKQAWIPVQYFVISEKCS	-----			: 196
SOST_HUMAN :	RV-QLICP---GG--EAPRARKVRLVASOKKRLTRFHNQSELKDFGTEARPQKGRKPRPRARS				: 178
SOST_RAT :	RV-QLICP---GG--AAPRSRKVRLVASOKKRLTRFHNQSELKDFGPETARPQKGRKPRPRARG				: 178
SOST_MOUSE :	RV-QLICP---GG--AAPRSRKVRLVASOKKRLTRFHNQSELKDFGPETARPQKGRKPRPGARG				: 176

NOGG_HUMAN :	-----	:	-
NOGG_CHICK :	-----	:	-
NOGG_XENLA :	-----	:	-
NOGG_FUGRU :	-----	:	-
NOGG_ZEBRA :	-----	:	-
SOST_HUMAN :	AKANQAELENAY	:	190
SOST_RAT :	AKANQAELENAY	:	190
SOST_MOUSE :	AKANQAELENAY	:	188

FIG. 4B

*FIG. 5*

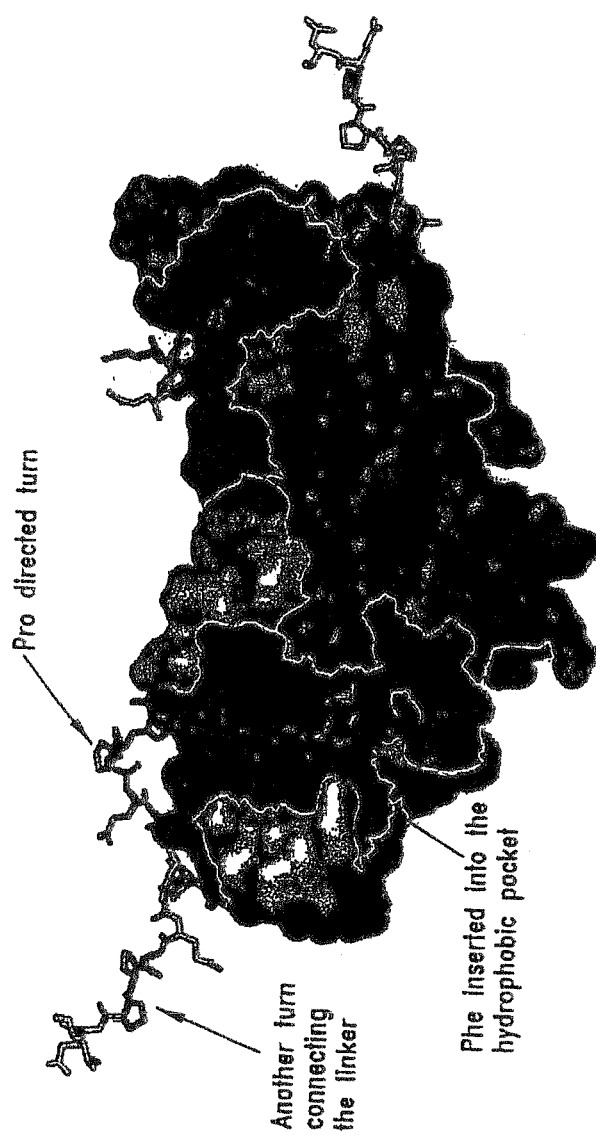


FIG. 6

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<141> 2004-06-15

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<151> 2003-06-16

<160> 112

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<213> Homo sapiens

<400> 1

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      20           25           30
Met Asn Arg Ala Glu Asn Gly Gly Arg Pro Pro His His Pro Phe Glu
      35           40           45
Thr Lys Asp Val Ser Glu Tyr Ser Cys Arg Glu Leu His Phe Thr Arg
      50           55           60
Tyr Val Thr Asp Gly Pro Cys Arg Ser Ala Lys Pro Val Thr Glu Leu
      65           70           75           80
Val Cys Ser Gly Gln Cys Gly Pro Ala Arg Leu Leu Pro Asn Ala Ile
      85           90           95
Gly Arg Gly Lys Trp Trp Arg Pro Ser Gly Pro Asp Phe Arg Cys Ile
      100          105          110
Pro Asp Arg Tyr Arg Ala Gln Arg Val Gln Leu Leu Cys Pro Gly Gly
      115          120          125
Glu Ala Pro Arg Ala Arg Lys Val Arg Leu Val Ala Ser Cys Lys Cys
      130          135          140
Lys Arg Leu Thr Arg Phe His Asn Gln Ser Glu Leu Lys Asp Phe Gly
      145          150          155          160
Thr Glu Ala Ala Arg Pro Gln Lys Gly Arg Lys Pro Arg Pro Arg Ala
      165          170          175
Arg Ser Ala Lys Ala Asn Gln Ala Glu Leu Glu Asn Ala Tyr
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<212> PRT

<213> Homo sapiens

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 Leu Gly Glu Tyr
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<210> 3

<211> 20

<212> PRT

<213> Homo sapiens

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 Leu Glu Asn Asn
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<210> 4

<211> 20

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<213> Homo sapiens

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 Glu Asn Gly Gly
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<211> 20

<212> PRT

<213> Homo sapiens

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 Phe Glu Thr Lys
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<211> 16

<212> PRT

<213> Homo sapiens

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 1 5 10 15

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<211> 21

<212> PRT

<213> Artificial Sequence

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cysteine added

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Leu Gly Glu Tyr Cys
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<211> 21

<212> PRT

<213> Artificial Sequence

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cysteine added

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Leu Glu Asn Asn Cys
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<213> Artificial Sequence

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Glu Asn Gly Gly Cys
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cysteine added

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 cysteine added

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 1 5 10 15
 Cys

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 <212> PRT
 <213> Rattus norvegicus

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 Leu Arg Glu Tyr Pro Glu Pro Pro
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<213> Rattus norvegicus

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 added

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<213> Artificial Sequence

<220>

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 added

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Pro Glu Pro Pro Gln Glu Leu Glu Asn Asn Gln Thr Met Asn Arg Ala
 1 5 10 15
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<213> Artificial Sequence

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 1 5 10 15
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 Leu Glu Asn Asn Cys
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 <213> Rattus norvegicus

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

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 Gly Glu Ala Pro
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<210> 22
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 Leu Val Ala Ser
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 cysteine added

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 Gly Glu Ala Pro Cys
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 cysteine added

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 Leu Val Ala Ser Cys
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<210> 25
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<400> 25
 Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val Gln Leu Leu Cys Pro Gly
 1 5 10 15
 Gly

<210> 26

<211> 16
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<400> 26
 Pro Gly Gly Ala Ala Pro Arg Ser Arg Lys Val Arg Leu Val Ala Ser
 1 5 10 15

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<400> 28
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 1 5 10 15
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<400> 29
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 1 5 10 15
 Trp Arg Pro Ser
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<210> 30
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Ile Gly Arg Gly Lys Trp Trp Arg Pro Ser Gly Pro Asp Phe Arg Cys
 1 5 10 15

<210> 31

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<213> Rattus norvegicus

<400> 31

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 1 5 10 15
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<210> 32

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<212> PRT

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 added

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Pro Asn Ala Ile Gly Arg Val Lys Trp Trp Arg Pro Asn Gly Pro Asp
 1 5 10 15
 Phe Arg Cys

<210> 33

<211> 20

<212> PRT

<213> Homo sapiens

<400> 33

Lys Arg Leu Thr Arg Phe His Asn Gln Ser Glu Leu Lys Asp Phe Gly
 1 5 10 15
 Thr Glu Ala Ala
 20

<210> 34

<211> 20

<212> PRT

<213> Homo sapiens

<400> 34

Glu Leu Lys Asp Phe Gly Thr Glu Ala Ala Arg Pro Gln Lys Gly Arg
 1 5 10 15
 Lys Pro Arg Pro
 20

<210> 35

<211> 20
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 <213> Homo sapiens

<400> 35
 Arg Pro Gln Lys Gly Arg Lys Pro Arg Pro Arg Ala Arg Ser Ala Lys
 1 5 10 15
 Ala Asn Gln Ala
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<210> 36
 <211> 16
 <212> PRT
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<400> 36
 Arg Ala Arg Ser Ala Lys Ala Asn Gln Ala Glu Leu Glu Asn Ala Tyr
 1 5 10 15

<210> 37
 <211> 21
 <212> PRT
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 cysteine added

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 Lys Arg Leu Thr Arg Phe His Asn Gln Ser Glu Leu Lys Asp Phe Gly
 1 5 10 15
 Thr Glu Ala Ala Cys
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<210> 38
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 <213> Artificial Sequence

<220>
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 cysteine added

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 1 5 10 15
 Lys Pro Arg Pro Cys
 20

<210> 39
 <211> 21
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cysteine added

<400> 39

Arg	Pro	Gln	Lys	Gly	Arg	Lys	Pro	Arg	Pro	Arg	Ala	Arg	Ser	Ala	Lys
1				5				10						15	
Ala	Asn	Gln	Ala	Cys											
				20											

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<211> 17

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<213> Artificial Sequence

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cysteine added

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Arg	Ala	Arg	Ser	Ala	Lys	Ala	Asn	Gln	Ala	Glu	Leu	Glu	Asn	Ala	Tyr
1				5				10						15	
Cys															

<210> 41

<211> 23

<212> PRT

<213> Rattus norvegicus

<400> 41

Lys	Arg	Leu	Thr	Arg	Phe	His	Asn	Gln	Ser	Glu	Leu	Lys	Asp	Phe	Gly
1				5				10						15	
Pro	Glu	Thr	Ala	Arg	Pro	Gln									
				20											

<210> 42

<211> 23

<212> PRT

<213> Rattus norvegicus

<400> 42

Lys	Gly	Arg	Lys	Pro	Arg	Pro	Arg	Ala	Arg	Gly	Ala	Lys	Ala	Asn	Gln
1				5				10						15	
Ala	Glu	Leu	Glu	Asn	Ala	Tyr									
				20											

<210> 43

<211> 24

<212> PRT

<213> Rattus norvegicus

<400> 43

Ser	Glu	Leu	Lys	Asp	Phe	Gly	Pro	Glu	Thr	Ala	Arg	Pro	Gln	Lys	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Arg Lys Pro Arg Pro Arg Ala Arg

20

10

15

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<210> 44
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<213> Artificial Sequence
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<220>
<223> Rat SOST peptide fragment with additional cysteine added

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<400> 44
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 1           5           10           15
Pro Glu Thr Ala Arg Pro Gln Cys
      20

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<220>
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Lys Gly Arg Lys Pro Arg Pro Arg Ala Arg Gly Ala Lys Ala Asn Gln
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Ala Glu Leu Glu Asn Ala Tyr Cys
      20

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<213> Artificial Sequence
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<220>
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 1             5             10             15
Arg Lys Pro Arg Pro Arg Ala Arg Cys
      20             25

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<210> 47
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<212> PRT
<213> Homo sapiens
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<400> 47

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

<210> 48

<211> 56

<212> PRT

<213> Rattus norvegicus

<400> 48

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

<210> 49

<211> 32

<212> PRT

<213> Homo sapiens

<400> 49

Cys	Ile	Pro	Asp	Arg	Tyr	Arg	Ala	Gln	Arg	Val	Gln	Leu	Leu	Cys	Pro
1				5					10					15	
Gly	Gly	Glu	Ala	Pro	Arg	Ala	Arg	Lys	Val	Arg	Leu	Val	Ala	Ser	Cys
			20					25					30		

<210> 50

<211> 32

<212> PRT

<213> Rattus norvegicus

<400> 50

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

<210> 51

<211> 44

<212> PRT

<213> Homo sapiens

<400> 51

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-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15
 Ala Ala Arg Pro Gln Lys Gly Arg Lys Pro Arg Pro Arg Ala Arg Ser
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 Ala Lys Ala Asn Gln Ala Glu Leu Glu Asn Ala Tyr
 35 40

<210> 52
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 <213> Rattus norvegicus

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

<210> 53
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 53
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 1 5 10 15
 Trp Arg Pro Ser Gly Pro Asp Phe Arg Cys
 20 25

<210> 54
 <211> 26
 <212> PRT
 <213> Rattus norvegicus

<400> 54
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 1 5 10 15
 Trp Arg Pro Asn Gly Pro Asp Phe Arg Cys
 20 25

<210> 55
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 cggcctcccc accaccctt tgagaccaa gacgtgtccg agtacagctg ccgcgagctg 180
 cacttcaccc gctacgtgac cgatgggccc tgccgcagcg ccaagccggc caccgagctg 240
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 tgggtggcgac ctagtgggccc cgacttccgc tgcattcccc accgctaccg ccgcgagcgc 360
 gtgcagctgc tgtgtcccgg tgggtgaggcg ccgcgcgcgc gcaaggtgcg cctggtggcc 420

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tcgtgcaagt gcaagcgcct caccgccttc cacaaccagt cggagctcaa ggacttcggg 480
accgaggccg ctcgcccgca gaaggcccg aagccgcggc cccgcgcccg gagcgccaaa 540
gccaaaccagg ccgagctgga gaacgcctac                                     570

```

```

<210> 56
<211> 570
<212> DNA
<213> Rattus norvegicus

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```

<400> 56
caggggtggc aagccttcaa gaatgatgcc acagaaatca tcccgggact cagagagtac 60
ccagagcctc ctccaggaact agagaacaac cagaccatga accggggccga gaacggaggc 120
agaccccccc accatcctta tgacacccaa gacgtgtccg agtacagctg ccgcgagctg 180
cactacaccc gcttcgtgac cgacggcccg tgccgcagtg ccaagccggg caccgagttg 240
gtgtgctcgg gccagtgcgg cccgcgcggg ctgctgcccc acgccatcgg gcgcgtgaag 300
tgggtggcgcc cgaacggacc cgacttcgcg tgcacccggg atcgctaccg cgcgcagcgg 360
gtgcagctgc tgtgccccgg cggcgcgggc ccgcgctcgc gcaagggtgcg tctgggtggc 420
tcgtgcaagt gcaagcgcct caccgccttc cacaaccagt cggagctcaa ggacttcgga 480
cctgagaccg cgcggccgca gaagggtcgc aagccgcggc cccgcgcccg gggagccaaa 540
gccaaaccagg ccgagctgga gaacgcctac                                     570

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<210> 57
<211> 2301
<212> DNA
<213> Homo sapiens

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<400> 57
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ggtggcaggc gttcaagaat gatgccacgg aaatcatccc cgagctcgga gagtacccc 180
agcctccacc ggagctggag aacaacaaga ccataaaccg ggcggagaac ggagggcgcc 240
ctccccacca cccctttgag accaaagacg tgtccgagta cagctgccgc gagctgcact 300
tcacccgcta cgtgaccgat gggcgcgtgc gcagcgccaa gccggtcacc gagctggtgt 360
gctccggcca gtgcccggcg gcgcgcctgc tgcccaacgc catcgccgcg ggcaagtggg 420
ggcgacctag tggggcccgac ttccgctgca tccccgaccg ctaccgcgcg cagcgcgtgc 480
agctgctgtg tcccgggtggg gaggcgcgcg gcgcgcgcaa ggtgcgcctg gtggcctcgt 540
gcaagtgcaa gcgcctcacc cgcttcacac accagtcgga gctcaaggac ttcgggaccg 600
aggccgctcg gccgcgaagc ggccgggaagc cgcggccccc cgcgggagc gccaaagcca 660
accaggccga gctggagaac gcctactaga gccgcggcgc gccctcccc accggcgggc 720
gccccggccc tgaacccgcg cccacattt ctgtcctctg cgcgtggttt gattgtttat 780
atttcattgt aaatgcctgc aaccacgggc agggggctga gacctccag gccctgagga 840
atccccggcg ccggcaaggc cccctcagc ccgcagctg aggggtcca cggggcaggg 900
gaggaattg agagtacag aactgagcc acgcagcccc gcctctgggg ccgcctacct 960
ttgctggtcc cacttcagag gaggcagaaa tggaaagcatt ttcaccgccc tggggtttta 1020
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cccttgccac tcgtgcccc tcagaaagcc tgaggcgtgc ccagagcaca agactggggg 1140
caactgtaga tgtggtttct agtcctggct ctgccactaa cttgctgtgt aacctgaac 1200
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caaggtcact tcagaattc agagttgtga tgctctcttc tgacagccaa agatgaaaaa 1440
caaacagaaa aaaaaaagta aagagcttat ttatggctga catatttacg gctgacaaaac 1500
tcctggaaga agctatgctg ctteccagcc tggcttcccc ggatgtttgg ctacctccac 1560
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gggtgggagg atagaaatca catccgcccc aacttcccaa agagcagcat ccctcccccg 1680
acccatagcc atgttttaaa gtcaccttcc gaagagaagt gaaaggttca aggacactgg 1740
ccttgaggc ccgagggagc agccatcaca aactcacaga ccagcacatc ccttttgaga 1800
caccgccttc tgcccaccac tcacggacac atttctgcct agaaaacagc ttcttactgc 1860

```

```

tcttacatgt gatggcatat cttacactaa aagaatatta ttgggggaaa aactacaagt 1920
gctgtacata tgctgagaaa ctgcagagca taatagctgc caccacaaaa tctttttgaa 1980
aatcattttcc agacaacctc ttacttttctg tgtagttttt aattgttaaa aaaaaaaagt 2040
tttaaacaga agcacatgac atatgaaagc ctgcaggact ggtcgttttt ttggcaattc 2100
ttccacgtgg gacttgtcca caagaatgaa agtagtggtt tttaaagagt taagttacat 2160
atttattttc tcacttaagt tatttatgca aaagtttttc ttgtagagaa tgacaatggt 2220
aatattgctt tatgaattaa cagtctgttc ttccagagtc cagagacatt gttaataaag 2280
acaatgaatc atgaccgaaa g                                     2301

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<210> 58

<211> 213

<212> PRT

<213> Homo sapiens

<400> 58

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

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<210> 59

<211> 2301

<212> DNA

<213> Homo sapiens

<400> 59

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agagcctgtg ctactggaag gtggcggtgcc ctcctctggc tgggtaccatg cagctcccac 60
tggccctgtg tctcatctgc ctgctggtac acacagcctt ccgtgtagtg gagggccagg 120
ggtggcaggc gttcaagaat gatgccacgg aaatcatccg cgagctcgga gactaccccg 180
agcctccacc ggagctggag aacaacaaga ccatgaaccg ggcggagAAC ggagggcggc 240
ctccccacca cccctttgag accaaagacg tgtccgagta cagctgccgc gagctgcact 300
tcaccgcta cgtgaccgat gggcogtgcc gcagcgccaa gccggtcacc gagctggtgt 360
gtcccgcca gtgcggcccg gcgcgcctgc tgcccaacgc catcggccgc ggcaagtggc 420

```

```

ggcgacctag tgggccccgac ttccgctgca tccccgaccg ctaccgcgcg cagcgcgtgc 480
agctgctgtg tcccgggtggt gaggcgcgcg gcgcgcgcaa ggtgcgcctg gtggcctcgt 540
gcaagtgcaa gcgcctcacc cgcttcacac accagtcgga gctcaaggac ttcggggaccg 600
aggccgcctcg gccgcagaag ggccggaagc cgcggccccg gcgccggagc gccaaagcca 660
accaggccga gctggagaac gcctactaga gcccgcccg gcctctccc accggcgggc 720
gccccggccc tgaacccgcg cccacattt ctgtcctctg cgcgtgggtt gattgtttat 780
atttcattgt aaatgcctgc aaccagggc agggggctga gaccttccag gccctgagga 840
atcccgggcg ccggcaaggc cccctcagc ccgcagctg aggggtccc cggggcaggg 900
gaggggaattg agagtcacag aactgagcc acgcagcccc gcctctgggg ccgcctacct 960
ttgctgggtcc cacttcagag gaggcagaaa tggaagcatt ttcaccgcc tgggggtttta 1020
agggagcggg gtgggagtg gaaagtcag ggactggta agaaagttgg ataagattcc 1080
cccttgccac tcgctgccc tcagaaagc tgaggcgtgc ccagagcaca agactggggg 1140
caactgtaga tgtggtttct agtcctggc ctgccactaa cttgctgtgt aaccttgaac 1200
tacacaattc tccttcggga cctcaatttc cactttgtaa aatgaggggt gaggtgggaa 1260
taggatctcg aggagactat tggcatatga ttccaaggac tccagtgcct tttgaatggg 1320
cagaggtgag agagagagag agaaagagag agaataatg cagttgcatt gattcagtg 1380
caaggtoact tccagaattc agagttgtga tgctctcttc tgacagccaa agatgaaaaa 1440
caaacagaaa aaaaaaagta aagagtctat ttatggctga catatttac gctgacaaa 1500
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caocgccttc tgcccaccac tcacggacac atttctgcct agaaaacagc ttcttactgc 1860
tcttacatgt gatggcatat cttacactaa aagaatatta ttgggggaaa aactacaagt 1920
gctgtacata tgctgagaaa ctgcagagca taatagctgc caacccaaaaa tctttttgaa 1980
aatcatttcc agacaacctc ttactttctg ttagtttttt aattgttaaa aaaaaaaagt 2040
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ttccacgtgg gacttgtcca caagaatgaa agtagtggt tttaaagagt taagttacat 2160
atattatttc tcacttaagt tatttatgca aaagttttc ttgtagagaa tgacaatgtt 2220
aatattgctt tatgaattaa cagtctgttc ttccagagtc cagagacatt gttaataaag 2280
acaatgaatc atgaccgaaa g                                     2301

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<210> 60

<211> 213

<212> PRT

<213> Homo sapiens

<400> 60

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

```

145		150		155		160
Leu Val Ala Ser Cys	Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln					
	165		170			175
Ser Glu Leu Lys Asp Phe Gly Thr Glu Ala Ala Arg Pro Gln Lys Gly						
	180		185			190
Arg Lys Pro Arg Pro Arg Ala Arg Ser Ala Lys Ala Asn Gln Ala Glu						
	195		200			205
Leu Glu Asn Ala Tyr						
210						

<210> 61

<211> 2301

<212> DNA

<213> Homo sapiens

<400> 61

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agagcctgtg ctactggaag gtggcgtgcc ctccctctggc tgggtaccatg cagctcccac 60
tggccctgtg tctcgtctgc ctgctggtac acacagcctt ccgtgtagtg gagggccagg 120
ggtggcaggc gttcaagaat gatgccacgg aaatcatccg cgagctcgga gattaccccg 180
agcctccacc ggagctggag aacaacaaga ccatgaaccg ggcgagagaa ggagggcggc 240
ctccccacca cccctttgag accaaagacg tgtccgagta cagctgccgc gagctgcact 300
tcacccgcta cgtgaccgat gggccgtgcc gcagcgcaa gccggtcacc gagctggtgt 360
gctccggcca gtgcccggcg gcgcgcctgc tgcccaacgc catcgggccg ggcaagtggg 420
ggcgacctag tggggccgac ttccgctgca tccccgaccg ctaccgcgcg cagcgcggtg 480
agctgctgtg tcccgggtggg gaggcgcgcg gcgcgcgcaa ggtgcgcctg gtggcctcgt 540
gcaagtgcga gcgcctcacc cgcttccaca accagtcgga gctcaaggac ttcgggaccg 600
aggcgcgtcg gccgcagaag ggccggaagc cgccggcccc cgcccgagc gccaaagcca 660
accaggccga gctggagaac gcctactaga gcccgccccg gccctcccc accggcgggc 720
gccccggccc tgaacccgcg cccacattt ctgtcctctg cgcgtggttt gattgtttat 780
atttcattgt aaatgcctgc aaccagggg agggggctga gaccttccag gccctgagga 840
atccccggcg ccggcaaggc cccctcagc ccgccagctg aggggtccca cggggcaggg 900
gaggggaattg agagtacag aactgagcc acgcagcccc gcctctgggg ccgcctacct 960
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cagaggtgag agagagagag agaaagagag agaataatg cagttgcatt gattcagtgc 1380
caaggtcact tccagaattc agagtgtgta tgctctcttc tgacagccaa agatgaaaaa 1440
caaacagaaa aaaaaaagta aagagtctat ttatggctga catatttacg gctgacaaac 1500
tcctggaaga agctatgctg ctccccagcc tggcttcccc ggatgtttgg ctacctccac 1560
ccctccatct caaagaaata acatcatcca ttggggtaga aaaggagagg gtccgagggg 1620
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acccatagcc atgttttaaa gtcaccttcc gaagagaagt gaaaggttca aggacactgg 1740
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caccgccttc tgcccaccac tcacggacac atttctgcct agaaaacagc ttcttactgc 1860
tcttacatgt gatggcatat cttacactaa aagaatatta ttgggggaaa aactacaagt 1920
gctgtacata tgctgagaaa ctgcagagca taatagctgc caccacaaaa tctttttgaa 1980
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ttccaogtgg gacttgtcca caagaatgaa agtagtggtt tttaaagagt taagttacat 2160
atatttttct tcaatttaagt tatttatgca aaagtttttc ttgtagagaa tgacaatggt 2220
aatattgctt tatgaattaa cagtctgttc ttccagagtc cagagacatt gttataaag 2280
acaatgaatc atgaccgaaa g

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<210> 62

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

<400> 62
 Met Gln Leu Pro Leu Ala Leu Cys Leu Val Cys Leu Leu Val His Thr
 1 5 10 15
 Ala Phe Arg Val Val Glu Gly Gln Gly Trp Gln Ala Phe Lys Asn Asp
 20 25 30
 Ala Thr Glu Ile Ile Arg Glu Leu Gly Glu Tyr Pro Glu Pro Pro Pro
 35 40 45
 Glu Leu Glu Asn Asn Lys Thr Met Asn Arg Ala Glu Asn Gly Gly Arg
 50 55 60
 Pro Pro His His Pro Phe Glu Thr Lys Asp Val Ser Glu Tyr Ser Cys
 65 70 75 80
 Arg Glu Leu His Phe Thr Arg Tyr Val Thr Asp Gly Pro Cys Arg Ser
 85 90 95
 Ala Lys Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala
 100 105 110
 Arg Leu Leu Pro Asn Ala Ile Gly Arg Gly Lys Trp Trp Arg Pro Ser
 115 120 125
 Gly Pro Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val
 130 135 140
 Gln Leu Leu Cys Pro Gly Gly Glu Ala Pro Arg Ala Arg Lys Val Arg
 145 150 155 160
 Leu Val Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln
 165 170 175
 Ser Glu Leu Lys Asp Phe Gly Thr Glu Ala Ala Arg Pro Gln Lys Gly
 180 185 190
 Arg Lys Pro Arg Pro Arg Ala Arg Ser Ala Lys Ala Asn Gln Ala Glu
 195 200 205
 Leu Glu Asn Ala Tyr
 210

<210> 63
 <211> 642
 <212> DNA
 <213> Cercopithecus pygerythrus

<400> 63
 atgcagctcc cactggccct gtgtcttgtc tgcctgctgg tacacgcagc cttccgtgta 60
 gtggagggcc aggggtggca ggccttcaag aatgatgcca cggaaatcat ccccgagctc 120
 ggagagtacc ccgagcctcc accggagctg gagaacaaca agaccatgaa ccgggcggag 180
 aatggagggc ggcctcccca ccaccccttt gagaccaaag acgtgtccga gtacagctgc 240
 cgagagctgc acttcacccg ctacgtgacc gatgggcccgt gccgcagcgc caagccagtc 300
 accgagttgg tgtgctccgg ccagtgcggc ccggcacgcc tgctgcccga cgccatccggc 360
 cgcggaagt ggtggcgccc gagtgggccc gacttccgct gcatccccga ccgctaccgc 420
 gcgcagcgtg tgcagctgct gtgtcccggg ggtgccgcgc cgcgcgcgcg caaggtgcgc 480
 ctggtggcct cgtgcaagtg caagcgccct acccgcttcc acaaccagtc ggagctcaag 540
 gacttcggtc ccgaggccgc tcggccgcag aagggcggga agccgcggcc ccgcgcccgg 600
 ggggccaaaag ccaatcaggc cgagctggag aacgcctact ag 642

<210> 64
 <211> 213
 <212> PRT
 <213> Cercopithecus pygerythrus

<400> 64

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

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<210> 65

<211> 638

<212> DNA

<213> Mus musculus

<400> 65

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ggagagtacc ccgagcctcc tcttgagaac aaccagacca tgaaccgggc ggagaatgga 180
ggcagacctc cccaccatcc ctatgacgcc aaagggtgtgt ccgagtacag ctgccgcgag 240
ctgcactaca cccgcttctt gacagacggc ccatgccgca gcgccaaagcc ggtcaccgag 300
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cgggtgcagc tgctgtgccc cgggggcgcg gcgcgcgcgt ccgcgaaggt gcgtctggtg 480
gcctcgtgca agtgcaagcg cctcaccgcg ttccacaacc agtcggagct caaggacttc 540
gggccggaga ccgcgcggcc gcagaagggt cgcaagcgcg ggcccggcgc ccggggagcc 600
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<210> 66

<211> 211

<212> PRT

<213> Mus musculus

<400> 66

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Met Gln Pro Ser Leu Ala Pro Cys Leu Ile Cys Leu Leu Val His Ala
 1          5          10          15
Ala Phe Cys Ala Val Glu Gly Gln Gly Trp Gln Ala Phe Arg Asn Asp

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

<210> 67
 <211> 674
 <212> DNA
 <213> Rattus norvegicus

<400> 67
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 cctgcctgct tgtacatgca gccttcggtg ctgtggagag ccaggggtgg caagccttca 120
 agaatgatgc cacagaaatc atcccgggac tcagagagta cccagagcct cctcaggaac 180
 tagagaacaa ccagaccatg aaccgggccc agaacggagg cagaccccc caccatcctt 240
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 gccccgcgcg gctgctgccc aacgccatcg ggcgcgtgaa gtggtggcgc ccgaacggac 420
 ccgacttcg ctgcatcccg gatcgctacc gcgcgcagcg ggtgcagctg ctgtgccccg 480
 ggggcgcggc gccgcgctcg cgcaaggtgc gtctgggtggc ctgctgcaag tgcaagcgcc 540
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 agaacgcta ctag 674

<210> 68
 <211> 213
 <212> PRT
 <213> Rattus norvegicus

<400> 68
 Met Gln Leu Ser Leu Ala Pro Cys Leu Ala Cys Leu Leu Val His Ala
 1 5 10 15
 Ala Phe Val Ala Val Glu Ser Gln Gly Trp Gln Ala Phe Lys Asn Asp
 20 25 30
 Ala Thr Glu Ile Ile Pro Gly Leu Arg Glu Tyr Pro Glu Pro Pro Gln
 35 40 45

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

<210> 69
 <211> 532
 <212> DNA
 <213> Bos torus

<400> 69
 agaatgatgc cacagaaatc atccccgagc tgggagagta ccccgagcct ctgccagagc 60
 tgaacaacaa gaccatgaac cgggaggaga acggaggag acctccccac caccctttg 120
 agaccaaaga cgctccgag tacagctgcc gggagctgca cttcaccgc tacgtgaccg 180
 atgggcccgtg ccgcagcgcc aagccgggtca ccgagctggt gtgctcgggc cagtgcggcc 240
 cggcgcgccct gctgcccac gccatcggcc gcggcaagt gtggcgccca agcgggccc 300
 acttccgctg catccccgac cgctaccgcy cgcagcgggt gcagctgttg tgtcctggcg 360
 gcgcggcgcc gcgcgcgcgc aaggtgcgcc tgggtggcctc gtgcaagtgc aagcgccctca 420
 ctgcgttcca caaccagtc gagctcaagg acttcgggccc cgaggccgcg cggccgcaaa 480
 cgggcccga gctgcggccc cgcgcccggg gcaacaaagc cagccgggccc ga 532

<210> 70
 <211> 176
 <212> PRT
 <213> Bos torus

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

Ser Gly Pro Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg
 100 105 110
 Val Gln Leu Leu Cys Pro Gly Gly Ala Ala Pro Arg Ala Arg Lys Val
 115 120 125
 Arg Leu Val Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn
 130 135 140
 Gln Ser Glu Leu Lys Asp Phe Gly Pro Glu Ala Ala Arg Pro Gln Thr
 145 150 155 160
 Gly Arg Lys Leu Arg Pro Arg Ala Arg Gly Thr Lys Ala Ser Arg Ala
 165 170 175

<210> 71
 <211> 532
 <212> PRT
 <213> Homo sapiens

<400> 71
 Met Thr Gln Leu Tyr Ile Tyr Ile Arg Leu Leu Gly Ala Tyr Leu Phe
 1 5 10 15
 Ile Ile Ser Arg Val Gln Gly Gln Asn Leu Asp Ser Met Leu His Gly
 20 25 30
 Thr Gly Met Lys Ser Asp Ser Asp Gln Lys Lys Ser Glu Asn Gly Val
 35 40 45
 Thr Leu Ala Pro Glu Asp Thr Leu Pro Phe Leu Lys Cys Tyr Cys Ser
 50 55 60
 Gly His Cys Pro Asp Asp Ala Ile Asn Asn Thr Cys Ile Thr Asn Gly
 65 70 75 80
 His Cys Phe Ala Ile Ile Glu Glu Asp Asp Gln Gly Glu Thr Thr Leu
 85 90 95
 Ala Ser Gly Cys Met Lys Tyr Glu Gly Ser Asp Phe Gln Cys Lys Asp
 100 105 110
 Ser Pro Lys Ala Gln Leu Arg Arg Thr Ile Glu Cys Cys Arg Thr Asn
 115 120 125
 Leu Cys Asn Gln Tyr Leu Gln Pro Thr Leu Pro Pro Val Val Ile Gly
 130 135 140
 Pro Phe Phe Asp Gly Ser Ile Arg Trp Leu Val Leu Leu Ile Ser Met
 145 150 155 160
 Ala Val Cys Ile Ile Ala Met Ile Ile Phe Ser Ser Cys Phe Cys Tyr
 165 170 175
 Lys His Tyr Cys Lys Ser Ile Ser Ser Arg Arg Arg Tyr Asn Arg Asp
 180 185 190
 Leu Glu Gln Asp Glu Ala Phe Ile Pro Val Gly Glu Ser Leu Lys Asp
 195 200 205
 Leu Ile Asp Gln Ser Gln Ser Ser Gly Ser Gly Ser Gly Leu Pro Leu
 210 215 220
 Leu Val Gln Arg Thr Ile Ala Lys Gln Ile Gln Met Val Arg Gln Val
 225 230 235 240
 Gly Lys Gly Arg Tyr Gly Glu Val Trp Met Gly Lys Trp Arg Gly Glu
 245 250 255
 Lys Val Ala Val Lys Val Phe Phe Thr Thr Glu Glu Ala Ser Trp Phe
 260 265 270
 Arg Glu Thr Glu Ile Tyr Gln Thr Val Leu Met Arg His Glu Asn Ile
 275 280 285
 Leu Gly Phe Ile Ala Ala Asp Ile Lys Gly Thr Gly Ser Trp Thr Gln
 290 295 300
 Leu Tyr Leu Ile Thr Asp Tyr His Glu Asn Gly Ser Leu Tyr Asp Phe
 305 310 315 320

Leu Lys Cys Ala Thr Leu Asp Thr Arg Ala Leu Leu Lys Leu Ala Tyr
 325 330 335
 Ser Ala Ala Cys Gly Leu Cys His Leu His Thr Glu Ile Tyr Gly Thr
 340 345 350
 Gln Gly Lys Pro Ala Ile Ala His Arg Asp Leu Lys Ser Lys Asn Ile
 355 360 365
 Leu Ile Lys Lys Asn Gly Ser Cys Cys Ile Ala Asp Leu Gly Leu Ala
 370 375 380
 Val Lys Phe Asn Ser Asp Thr Asn Glu Val Asp Val Pro Leu Asn Thr
 385 390 395 400
 Arg Val Gly Thr Lys Arg Tyr Met Ala Pro Glu Val Leu Asp Glu Ser
 405 410 415
 Leu Asn Lys Asn His Phe Gln Pro Tyr Ile Met Ala Asp Ile Tyr Ser
 420 425 430
 Phe Gly Leu Ile Ile Trp Glu Met Ala Arg Arg Cys Ile Thr Gly Gly
 435 440 445
 Ile Val Glu Glu Tyr Gln Leu Pro Tyr Tyr Asn Met Val Pro Ser Asp
 450 455 460
 Pro Ser Tyr Glu Asp Met Arg Glu Val Val Cys Val Lys Arg Leu Arg
 465 470 475 480
 Pro Ile Val Ser Asn Arg Trp Asn Ser Asp Glu Cys Leu Arg Ala Val
 485 490 495
 Leu Lys Leu Met Ser Glu Cys Trp Ala His Asn Pro Ala Ser Arg Leu
 500 505 510
 Thr Ala Leu Arg Ile Lys Lys Thr Leu Ala Lys Met Val Glu Ser Gln
 515 520 525
 Asp Val Lys Ile
 530

<210> 72
 <211> 502
 <212> PRT
 <213> Homo sapiens

<400> 72
 Met Leu Leu Arg Ser Ala Gly Lys Leu Asn Val Gly Thr Lys Lys Glu
 1 5 10 15
 Asp Gly Glu Ser Thr Ala Pro Thr Pro Arg Pro Lys Val Leu Arg Cys
 20 25 30
 Lys Cys His His Cys Pro Glu Asp Ser Val Asn Asn Ile Cys Ser
 35 40 45
 Thr Asp Gly Tyr Cys Phe Thr Met Ile Glu Glu Asp Asp Ser Gly Leu
 50 55 60
 Pro Val Val Thr Ser Gly Cys Leu Gly Leu Glu Gly Ser Asp Phe Gln
 65 70 75 80
 Cys Arg Asp Thr Pro Ile Pro His Gln Arg Arg Ser Ile Glu Cys Cys
 85 90 95
 Thr Glu Arg Asn Glu Cys Asn Lys Asp Leu His Pro Thr Leu Pro Pro
 100 105 110
 Leu Lys Asn Arg Asp Phe Val Asp Gly Pro Ile His His Arg Ala Leu
 115 120 125
 Leu Ile Ser Val Thr Val Cys Ser Leu Leu Leu Val Leu Ile Ile Leu
 130 135 140
 Phe Cys Tyr Phe Arg Tyr Lys Arg Gln Glu Thr Arg Pro Arg Tyr Ser
 145 150 155 160
 Ile Gly Leu Glu Gln Asp Glu Thr Tyr Ile Pro Pro Gly Glu Ser Leu
 165 170 175

Arg Asp Leu Ile Glu Gln Ser Gln Ser Ser Gly Ser Gly Ser Gly Leu
 180 185 190
 Pro Leu Leu Val Gln Arg Thr Ile Ala Lys Gln Ile Gln Met Val Lys
 195 200 205
 Gln Ile Gly Lys Gly Arg Tyr Gly Glu Val Trp Met Gly Lys Trp Arg
 210 215 220
 Gly Glu Lys Val Ala Val Lys Val Phe Phe Thr Thr Glu Glu Ala Ser
 225 230 235 240
 Trp Phe Arg Glu Thr Glu Ile Tyr Gln Thr Val Leu Met Arg His Glu
 245 250 255
 Asn Ile Leu Gly Phe Ile Ala Ala Asp Ile Lys Gly Thr Gly Ser Trp
 260 265 270
 Thr Gln Leu Tyr Leu Ile Thr Asp Tyr His Glu Asn Gly Ser Leu Tyr
 275 280 285
 Asp Tyr Leu Lys Ser Thr Thr Leu Asp Ala Lys Ser Met Leu Lys Leu
 290 295 300
 Ala Tyr Ser Ser Val Ser Gly Leu Cys His Leu His Thr Glu Ile Phe
 305 310 315 320
 Ser Thr Gln Gly Lys Pro Ala Ile Ala His Arg Asp Leu Lys Ser Lys
 325 330 335
 Asn Ile Leu Val Lys Lys Asn Gly Thr Cys Cys Ile Ala Asp Leu Gly
 340 345 350
 Leu Ala Val Lys Phe Ile Ser Asp Thr Asn Glu Val Asp Ile Pro Pro
 355 360 365
 Asn Thr Arg Val Gly Thr Lys Arg Tyr Met Pro Pro Glu Val Leu Asp
 370 375 380
 Glu Ser Leu Asn Arg Asn His Phe Gln Ser Tyr Ile Met Ala Asp Met
 385 390 395 400
 Tyr Ser Phe Gly Leu Ile Leu Trp Glu Val Ala Arg Arg Cys Val Ser
 405 410 415
 Gly Gly Ile Val Glu Glu Tyr Gln Leu Pro Tyr His Asp Leu Val Pro
 420 425 430
 Ser Asp Pro Ser Tyr Glu Asp Met Arg Glu Ile Val Cys Ile Lys Lys
 435 440 445
 Leu Arg Pro Ser Phe Pro Asn Arg Trp Ser Ser Asp Glu Cys Leu Arg
 450 455 460
 Gln Met Gly Lys Leu Met Thr Glu Cys Trp Ala His Asn Pro Ala Ser
 465 470 475 480
 Arg Leu Thr Ala Leu Arg Val Lys Lys Thr Leu Ala Lys Met Ser Glu
 485 490 495
 Ser Gln Asp Ile Lys Leu
 500

<210> 73
 <211> 502
 <212> PRT
 <213> Homo sapiens

<400> 73
 Met Leu Leu Arg Ser Ala Gly Lys Leu Asn Val Gly Thr Lys Lys Glu
 1 5 10 15
 Asp Gly Glu Ser Thr Ala Pro Thr Pro Arg Pro Lys Val Leu Arg Cys
 20 25 30
 Lys Cys His His Cys Pro Glu Asp Ser Val Asn Asn Ile Cys Ser
 35 40 45
 Thr Asp Gly Tyr Cys Phe Thr Met Ile Glu Glu Asp Asp Ser Gly Leu
 50 55 60

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

<210> 74
 <211> 532
 <212> PRT
 <213> Rattus sp.

<400> 74
 Met Thr Gln Leu Tyr Thr Tyr Ile Arg Leu Leu Gly Ala Cys Leu Phe
 1 5 10 15
 Ile Ile Ser His Val Gln Gly Gln Asn Leu Asp Ser Met Leu His Gly
 20 25 30
 Thr Gly Met Lys Ser Asp Val Asp Gln Lys Lys Pro Glu Asn Gly Val
 35 40 45
 Thr Leu Ala Pro Glu Asp Thr Leu Pro Phe Leu Lys Cys Tyr Cys Ser
 50 55 60
 Gly His Cys Pro Asp Asp Ala Ile Asn Asn Thr Cys Ile Thr Asn Gly
 65 70 75 80
 His Cys Phe Ala Ile Ile Glu Glu Asp Asp Gln Gly Glu Thr Thr Leu
 85 90 95
 Thr Ser Gly Cys Met Lys Tyr Glu Gly Ser Asp Phe Gln Cys Lys Asp
 100 105 110
 Ser Pro Lys Ala Gln Leu Arg Arg Thr Ile Glu Cys Cys Arg Thr Asn
 115 120 125
 Leu Cys Asn Gln Tyr Leu Gln Pro Thr Leu Pro Pro Val Val Ile Gly
 130 135 140
 Pro Phe Phe Asp Gly Ser Val Arg Trp Leu Ala Val Leu Ile Ser Met
 145 150 155 160
 Ala Val Cys Ile Val Ala Met Ile Val Phe Ser Ser Cys Phe Cys Tyr
 165 170 175
 Lys His Tyr Cys Lys Ser Ile Ser Ser Arg Gly Arg Tyr Asn Arg Asp
 180 185 190
 Leu Glu Gln Asp Glu Ala Phe Ile Pro Val Gly Glu Ser Leu Lys Asp
 195 200 205
 Leu Ile Asp Gln Ser Gln Ser Ser Gly Ser Gly Ser Gly Leu Pro Leu
 210 215 220
 Leu Val Gln Arg Thr Ile Ala Lys Gln Ile Gln Met Val Arg Gln Val
 225 230 235 240
 Gly Lys Gly Arg Tyr Gly Glu Val Trp Met Gly Lys Trp Arg Gly Glu
 245 250 255
 Lys Val Ala Val Lys Val Phe Phe Thr Thr Glu Glu Ala Ser Trp Phe
 260 265 270
 Arg Glu Thr Glu Ile Tyr Gln Thr Val Leu Met Arg His Glu Asn Ile
 275 280 285
 Leu Gly Phe Ile Ala Ala Asp Ile Lys Gly Thr Gly Ser Trp Thr Gln
 290 295 300
 Leu Tyr Leu Ile Thr Asp Tyr His Glu Asn Gly Ser Leu Tyr Asp Phe
 305 310 315 320
 Leu Lys Cys Ala Thr Leu Asp Thr Arg Ala Leu Leu Lys Leu Ala Tyr
 325 330 335
 Ser Ala Ala Cys Gly Leu Cys His Leu His Thr Glu Ile Tyr Gly Thr
 340 345 350
 Gln Gly Lys Pro Ala Ile Ala His Arg Asp Leu Lys Ser Lys Asn Ile
 355 360 365
 Leu Ile Lys Lys Asn Gly Ser Cys Cys Ile Ala Asp Leu Gly Leu Ala
 370 375 380
 Val Lys Phe Asn Ser Asp Thr Asn Glu Val Asp Ile Pro Leu Asn Thr
 385 390 395 400
 Arg Val Gly Thr Arg Arg Tyr Met Ala Pro Glu Val Leu Asp Glu Ser
 405 410 415

Leu Ser Lys Asn His Phe Gln Pro Tyr Ile Met Ala Asp Ile Tyr Ser
 420 425 430
 Phe Gly Leu Ile Ile Trp Glu Met Ala Arg Arg Cys Ile Thr Gly Gly
 435 440 445
 Ile Val Glu Glu Tyr Gln Leu Pro Tyr Tyr Asn Met Val Pro Ser Asp
 450 455 460
 Pro Ser Tyr Glu Asp Met Arg Glu Val Val Cys Val Lys Arg Leu Arg
 465 470 475 480
 Pro Ile Val Ser Asn Arg Trp Asn Ser Asp Glu Cys Leu Arg Ala Val
 485 490 495
 Leu Lys Leu Met Ser Glu Cys Trp Ala His Asn Pro Ala Ser Arg Leu
 500 505 510
 Thr Ala Leu Arg Ile Lys Lys Thr Leu Ala Lys Met Val Glu Ser Gln
 515 520 525
 Asp Val Lys Ile
 530

<210> 75
 <211> 532
 <212> PRT
 <213> Rattus norvegicus

<400> 75
 Met Thr Gln Leu Tyr Thr Tyr Ile Arg Leu Leu Gly Ala Cys Leu Phe
 1 5 10 15
 Ile Ile Ser His Val Gln Gly Gln Asn Leu Asp Ser Met Leu His Gly
 20 25 30
 Thr Gly Met Lys Ser Asp Val Asp Gln Lys Lys Pro Glu Asn Gly Val
 35 40 45
 Thr Leu Ala Pro Glu Asp Thr Leu Pro Phe Leu Lys Cys Tyr Cys Ser
 50 55 60
 Gly His Cys Pro Asp Asp Ala Ile Asn Asn Thr Cys Ile Thr Asn Gly
 65 70 75 80
 His Cys Phe Ala Ile Ile Glu Glu Asp Asp Gln Gly Glu Thr Thr Leu
 85 90 95
 Thr Ser Gly Cys Met Lys Tyr Glu Gly Ser Asp Phe Gln Cys Lys Asp
 100 105 110
 Ser Pro Lys Ala Gln Leu Arg Arg Thr Ile Glu Cys Cys Arg Thr Asn
 115 120 125
 Leu Cys Asn Gln Tyr Leu Gln Pro Thr Leu Pro Pro Val Val Ile Gly
 130 135 140
 Pro Phe Phe Asp Gly Ser Val Arg Trp Leu Ala Val Leu Ile Ser Met
 145 150 155 160
 Ala Val Cys Ile Val Ala Met Ile Val Phe Ser Ser Cys Phe Cys Tyr
 165 170 175
 Lys His Tyr Cys Lys Ser Ile Ser Ser Arg Gly Arg Tyr Asn Arg Asp
 180 185 190
 Leu Glu Gln Asp Glu Ala Phe Ile Pro Val Gly Glu Ser Leu Lys Asp
 195 200 205
 Leu Ile Asp Gln Ser Gln Ser Ser Gly Ser Gly Ser Gly Leu Pro Leu
 210 215 220
 Leu Val Gln Arg Thr Ile Ala Lys Gln Ile Gln Met Val Arg Gln Val
 225 230 235 240
 Gly Lys Gly Arg Tyr Gly Glu Val Trp Met Gly Lys Trp Arg Gly Glu
 245 250 255
 Lys Val Ala Val Lys Val Phe Phe Thr Thr Glu Glu Ala Ser Trp Phe
 260 265 270

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Arg Glu Thr Glu Ile Tyr Gln Thr Val Leu Met Arg His Glu Asn Ile
      275                280                285
Leu Gly Phe Ile Ala Ala Asp Ile Lys Gly Thr Gly Ser Trp Thr Gln
      290                295                300
Leu Tyr Leu Ile Thr Asp Tyr His Glu Asn Gly Ser Leu Tyr Asp Phe
305                310                315                320
Leu Lys Cys Ala Thr Leu Asp Thr Arg Ala Leu Leu Lys Leu Ala Tyr
      325                330                335
Ser Ala Ala Cys Gly Leu Cys His Leu His Thr Glu Ile Tyr Gly Thr
      340                345                350
Gln Gly Lys Pro Ala Ile Ala His Arg Asp Leu Lys Ser Lys Asn Ile
      355                360                365
Leu Ile Lys Lys Asn Gly Ser Cys Cys Ile Ala Asp Leu Gly Leu Ala
370                375                380
Val Lys Phe Asn Ser Asp Thr Asn Glu Val Asp Ile Pro Leu Asn Thr
385                390                395                400
Arg Val Gly Thr Arg Arg Tyr Met Ala Pro Glu Val Leu Asp Glu Ser
      405                410                415
Leu Ser Lys Asn His Phe Gln Pro Tyr Ile Met Ala Asp Ile Tyr Ser
      420                425                430
Phe Gly Leu Ile Ile Trp Glu Met Ala Arg Arg Cys Ile Thr Gly Gly
      435                440                445
Ile Val Glu Glu Tyr Gln Leu Pro Tyr Tyr Asn Met Val Pro Ser Asp
450                455                460
Pro Ser Tyr Glu Asp Met Arg Glu Val Val Cys Val Lys Arg Leu Arg
465                470                475                480
Pro Ile Val Ser Asn Arg Trp Asn Ser Asp Glu Cys Leu Arg Ala Val
      485                490                495
Leu Lys Leu Met Ser Glu Cys Trp Ala His Asn Pro Ala Ser Arg Leu
500                505                510
Thr Ala Leu Arg Ile Lys Lys Thr Leu Ala Lys Met Val Glu Ser Gln
515                520                525
Asp Val Lys Ile
530

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<210> 76
<211> 532
<212> PRT
<213> Rattus norvegicus

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<400> 76
Met Thr Gln Leu Tyr Thr Tyr Ile Arg Leu Leu Gly Ala Cys Leu Phe
 1                5                10                15
Ile Ile Ser His Val Gln Gly Gln Asn Leu Asp Ser Met Leu His Gly
      20                25                30
Thr Gly Met Lys Ser Asp Val Asp Gln Lys Lys Pro Glu Asn Gly Val
      35                40                45
Thr Leu Ala Pro Glu Asp Thr Leu Pro Phe Leu Lys Cys Tyr Cys Ser
50                55                60
Gly His Cys Pro Asp Asp Ala Ile Asn Asn Thr Cys Ile Thr Asn Gly
65                70                75                80
His Cys Phe Ala Ile Ile Glu Glu Asp Asp Gln Gly Glu Thr Thr Leu
      85                90                95
Thr Ser Gly Cys Met Lys Tyr Glu Gly Ser Asp Phe Gln Cys Lys Asp
100                105                110
Ser Pro Lys Ala Gln Leu Arg Arg Thr Ile Glu Cys Cys Arg Thr Asn
115                120                125

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Leu	Cys	Asn	Gln	Tyr	Leu	Gln	Pro	Thr	Leu	Pro	Pro	Val	Val	Ile	Gly
130						135					140				
Pro	Phe	Phe	Asp	Gly	Ser	Val	Arg	Trp	Leu	Ala	Val	Leu	Ile	Ser	Met
145					150					155					160
Ala	Val	Cys	Ile	Val	Ala	Met	Ile	Val	Phe	Ser	Ser	Cys	Phe	Cys	Tyr
				165					170						175
Lys	His	Tyr	Cys	Lys	Ser	Ile	Ser	Ser	Arg	Gly	Arg	Tyr	Asn	Arg	Asp
			180					185					190		
Leu	Glu	Gln	Asp	Glu	Ala	Phe	Ile	Pro	Val	Gly	Glu	Ser	Leu	Lys	Asp
		195					200					205			
Leu	Ile	Asp	Gln	Ser	Gln	Ser	Ser	Gly	Ser	Gly	Ser	Gly	Leu	Pro	Leu
	210					215						220			
Leu	Val	Gln	Arg	Thr	Ile	Ala	Lys	Gln	Ile	Gln	Met	Val	Arg	Gln	Val
225					230					235					240
Gly	Lys	Gly	Arg	Tyr	Gly	Glu	Val	Trp	Met	Gly	Lys	Trp	Arg	Gly	Glu
				245					250						255
Lys	Val	Ala	Val	Lys	Val	Phe	Phe	Thr	Thr	Glu	Glu	Ala	Ser	Trp	Phe
			260					265						270	
Arg	Glu	Thr	Glu	Ile	Tyr	Gln	Thr	Val	Leu	Met	Arg	His	Glu	Asn	Ile
		275					280						285		
Leu	Gly	Phe	Ile	Ala	Ala	Asp	Ile	Lys	Gly	Thr	Gly	Ser	Trp	Thr	Gln
	290					295						300			
Leu	Tyr	Leu	Ile	Thr	Asp	Tyr	His	Glu	Asn	Gly	Ser	Leu	Tyr	Asp	Phe
305					310					315					320
Leu	Lys	Cys	Ala	Thr	Leu	Asp	Thr	Arg	Ala	Leu	Leu	Lys	Leu	Ala	Tyr
				325					330					335	
Ser	Ala	Ala	Cys	Gly	Leu	Cys	His	Leu	His	Thr	Glu	Ile	Tyr	Gly	Thr
			340					345						350	
Gln	Gly	Lys	Pro	Ala	Ile	Ala	His	Arg	Asp	Leu	Lys	Ser	Lys	Asn	Ile
		355					360						365		
Leu	Ile	Lys	Lys	Asn	Gly	Ser	Cys	Cys	Ile	Ala	Asp	Leu	Gly	Leu	Ala
	370					375					380				
Val	Lys	Phe	Asn	Ser	Asp	Thr	Asn	Glu	Val	Asp	Ile	Pro	Leu	Asn	Thr
385					390					395					400
Arg	Val	Gly	Thr	Arg	Arg	Tyr	Met	Ala	Pro	Glu	Val	Leu	Asp	Glu	Ser
				405					410					415	
Leu	Ser	Lys	Asn	His	Phe	Gln	Pro	Tyr	Ile	Met	Ala	Asp	Ile	Tyr	Ser
			420					425						430	
Phe	Gly	Leu	Ile	Ile	Trp	Glu	Met	Ala	Arg	Arg	Cys	Ile	Thr	Gly	Gly
		435				440						445			
Ile	Val	Glu	Glu	Tyr	Gln	Leu	Pro	Tyr	Tyr	Asn	Met	Val	Pro	Ser	Asp
	450					455					460				
Pro	Ser	Tyr	Glu	Asp	Met	Arg	Glu	Val	Val	Cys	Val	Lys	Arg	Leu	Arg
465					470					475					480
Pro	Ile	Val	Ser	Asn	Arg	Trp	Asn	Ser	Asp	Glu	Cys	Leu	Arg	Ala	Val
				485					490					495	
Leu	Lys	Leu	Met	Ser	Glu	Cys	Trp	Ala	His	Asn	Pro	Ala	Ser	Arg	Leu
		500						505					510		
Thr	Ala	Leu	Arg	Ile	Lys	Lys	Thr	Leu	Ala	Lys	Met	Val	Glu	Ser	Gln
		515					520						525		
Asp	Val	Lys	Ile												
	530														

<210> 77

<211> 502

<212> PRT

<213> Homo sapiens

<400> 77

Met	Leu	Leu	Arg	Ser	Ala	Gly	Lys	Leu	Asn	Val	Gly	Thr	Lys	Lys	Glu
1				5					10					15	
Asp	Gly	Glu	Ser	Thr	Ala	Pro	Thr	Pro	Arg	Pro	Lys	Val	Leu	Arg	Cys
			20					25					30		
Lys	Cys	His	His	His	Cys	Pro	Glu	Asp	Ser	Val	Asn	Asn	Ile	Cys	Ser
		35					40					45			
Thr	Asp	Gly	Tyr	Cys	Phe	Thr	Met	Ile	Glu	Glu	Asp	Asp	Ser	Gly	Leu
	50					55					60				
Pro	Val	Val	Thr	Ser	Gly	Cys	Leu	Gly	Leu	Glu	Gly	Ser	Asp	Phe	Gln
65					70					75					80
Cys	Arg	Asp	Thr	Pro	Ile	Pro	His	Gln	Arg	Arg	Ser	Ile	Glu	Cys	Cys
				85				90						95	
Thr	Glu	Arg	Asn	Glu	Cys	Asn	Lys	Asp	Leu	His	Pro	Thr	Leu	Pro	Pro
			100					105					110		
Leu	Lys	Asn	Arg	Asp	Phe	Val	Asp	Gly	Pro	Ile	His	His	Arg	Ala	Leu
		115						120					125		
Leu	Ile	Ser	Val	Thr	Val	Cys	Ser	Leu	Leu	Leu	Val	Leu	Ile	Ile	Leu
	130					135					140				
Phe	Cys	Tyr	Phe	Arg	Tyr	Lys	Arg	Gln	Glu	Thr	Arg	Pro	Arg	Tyr	Ser
145					150					155					160
Ile	Gly	Leu	Glu	Gln	Asp	Glu	Thr	Tyr	Ile	Pro	Pro	Gly	Glu	Ser	Leu
				165				170						175	
Arg	Asp	Leu	Ile	Glu	Gln	Ser	Gln	Ser	Ser	Gly	Ser	Gly	Ser	Gly	Leu
			180					185					190		
Pro	Leu	Leu	Val	Gln	Arg	Thr	Ile	Ala	Lys	Gln	Ile	Gln	Met	Val	Lys
		195						200				205			
Gln	Ile	Gly	Lys	Gly	Arg	Tyr	Gly	Glu	Val	Trp	Met	Gly	Lys	Trp	Arg
	210					215					220				
Gly	Glu	Lys	Val	Ala	Val	Lys	Val	Phe	Phe	Thr	Thr	Glu	Glu	Ala	Ser
225					230					235					240
Trp	Phe	Arg	Glu	Thr	Glu	Ile	Tyr	Gln	Thr	Val	Leu	Met	Arg	His	Glu
				245					250					255	
Asn	Ile	Leu	Gly	Phe	Ile	Ala	Ala	Asp	Ile	Lys	Gly	Thr	Gly	Ser	Trp
		260						265					270		
Thr	Gln	Leu	Tyr	Leu	Ile	Thr	Asp	Tyr	His	Glu	Asn	Gly	Ser	Leu	Tyr
		275					280					285			
Asp	Tyr	Leu	Lys	Ser	Thr	Thr	Leu	Asp	Ala	Lys	Ser	Met	Leu	Lys	Leu
	290					295					300				
Ala	Tyr	Ser	Ser	Val	Ser	Gly	Leu	Cys	His	Leu	His	Thr	Glu	Ile	Phe
305					310					315					320
Ser	Thr	Gln	Gly	Lys	Pro	Ala	Ile	Ala	His	Arg	Asp	Leu	Lys	Ser	Lys
				325					330					335	
Asn	Ile	Leu	Val	Lys	Lys	Asn	Gly	Thr	Cys	Cys	Ile	Ala	Asp	Leu	Gly
		340						345					350		
Leu	Ala	Val	Lys	Phe	Ile	Ser	Asp	Thr	Asn	Glu	Val	Asp	Ile	Pro	Pro
		355					360					365			
Asn	Thr	Arg	Val	Gly	Thr	Lys	Arg	Tyr	Met	Pro	Pro	Glu	Val	Leu	Asp
	370					375					380				
Glu	Ser	Leu	Asn	Arg	Asn	His	Phe	Gln	Ser	Tyr	Ile	Met	Ala	Asp	Met
385					390					395					400
Tyr	Ser	Phe	Gly	Leu	Ile	Leu	Trp	Glu	Val	Ala	Arg	Arg	Cys	Val	Ser
				405					410					415	
Gly	Gly	Ile	Val	Glu	Glu	Tyr	Gln	Leu	Pro	Tyr	His	Asp	Leu	Val	Pro
			420					425					430		
Ser	Asp	Pro	Ser	Tyr	Glu	Asp	Met	Arg	Glu	Ile	Val	Cys	Ile	Lys	Lys
		435					440					445			

Leu Arg Pro Ser Phe Pro Asn Arg Trp Ser Ser Asp Glu Cys Leu Arg
 450 455 460
 Gln Met Gly Lys Leu Met Thr Glu Cys Trp Ala His Asn Pro Ala Ser
 465 470 475 480
 Arg Leu Thr Ala Leu Arg Val Lys Lys Thr Leu Ala Lys Met Ser Glu
 485 490 495
 Ser Gln Asp Ile Lys Leu
 500

<210> 78
 <211> 502
 <212> PRT
 <213> Homo sapiens

<400> 78
 Met Leu Leu Arg Ser Ala Gly Lys Leu Asn Val Gly Thr Lys Lys Glu
 1 5 10 15
 Asp Gly Glu Ser Thr Ala Pro Thr Pro Arg Pro Lys Val Leu Arg Cys
 20 25 30
 Lys Cys His His His Cys Pro Glu Asp Ser Val Asn Asn Ile Cys Ser
 35 40 45
 Thr Asp Gly Tyr Cys Phe Thr Met Ile Glu Glu Asp Asp Ser Gly Leu
 50 55 60
 Pro Val Val Thr Ser Gly Cys Leu Gly Leu Glu Gly Ser Asp Phe Gln
 65 70 75 80
 Cys Arg Asp Thr Pro Ile Pro His Gln Arg Arg Ser Ile Glu Cys Cys
 85 90 95
 Thr Glu Arg Asn Glu Cys Asn Lys Asp Leu His Pro Thr Leu Pro Pro
 100 105 110
 Leu Lys Asn Arg Asp Phe Val Asp Gly Pro Ile His His Arg Ala Leu
 115 120 125
 Leu Ile Ser Val Thr Val Cys Ser Leu Leu Leu Val Leu Ile Ile Leu
 130 135 140
 Phe Cys Tyr Phe Arg Tyr Lys Arg Gln Glu Thr Arg Pro Arg Tyr Ser
 145 150 155 160
 Ile Gly Leu Glu Gln Asp Glu Thr Tyr Ile Pro Pro Gly Glu Ser Leu
 165 170 175
 Arg Asp Leu Ile Glu Gln Ser Gln Ser Ser Gly Ser Gly Ser Gly Leu
 180 185 190
 Pro Leu Leu Val Gln Arg Thr Ile Ala Lys Gln Ile Gln Met Val Lys
 195 200 205
 Gln Ile Gly Lys Gly Arg Tyr Gly Glu Val Trp Met Gly Lys Trp Arg
 210 215 220
 Gly Glu Lys Val Ala Val Lys Val Phe Phe Thr Thr Glu Glu Ala Ser
 225 230 235 240
 Trp Phe Arg Glu Thr Glu Ile Tyr Gln Thr Val Leu Met Arg His Glu
 245 250 255
 Asn Ile Leu Gly Phe Ile Ala Ala Asp Ile Lys Gly Thr Gly Ser Trp
 260 265 270
 Thr Gln Leu Tyr Leu Ile Thr Asp Tyr His Glu Asn Gly Ser Leu Tyr
 275 280 285
 Asp Tyr Leu Lys Ser Thr Thr Leu Asp Ala Lys Ser Met Leu Lys Leu
 290 295 300
 Ala Tyr Ser Ser Val Ser Gly Leu Cys His Leu His Thr Glu Ile Phe
 305 310 315 320
 Ser Thr Gln Gly Lys Pro Ala Ile Ala His Arg Asp Leu Lys Ser Lys
 325 330 335

Asn Ile Leu Val Lys Lys Asn Gly Thr Cys Cys Ile Ala Asp Leu Gly
 340 345 350
 Leu Ala Val Lys Phe Ile Ser Asp Thr Asn Glu Val Asp Ile Pro Pro
 355 360 365
 Asn Thr Arg Val Gly Thr Lys Arg Tyr Met Pro Pro Glu Val Leu Asp
 370 375 380
 Glu Ser Leu Asn Arg Asn His Phe Gln Ser Tyr Ile Met Ala Asp Met
 385 390 395 400
 Tyr Ser Phe Gly Leu Ile Leu Trp Glu Val Ala Arg Arg Cys Val Ser
 405 410 415
 Gly Gly Ile Val Glu Glu Tyr Gln Leu Pro Tyr His Asp Leu Val Pro
 420 425 430
 Ser Asp Pro Ser Tyr Glu Asp Met Arg Glu Ile Val Cys Ile Lys Lys
 435 440 445
 Leu Arg Pro Ser Phe Pro Asn Arg Trp Ser Ser Asp Glu Cys Leu Arg
 450 455 460
 Gln Met Gly Lys Leu Met Thr Glu Cys Trp Ala His Asn Pro Ala Ser
 465 470 475 480
 Arg Leu Thr Ala Leu Arg Val Lys Lys Thr Leu Ala Lys Met Ser Glu
 485 490 495
 Ser Gln Asp Ile Lys Leu
 500

<210> 79
 <211> 532
 <212> PRT
 <213> Rattus sp.

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

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Leu Val Gln Arg Thr Ile Ala Lys Gln Ile Gln Met Val Arg Gln Val
225      230      235      240
Gly Lys Gly Arg Tyr Gly Glu Val Trp Met Gly Lys Trp Arg Gly Glu
      245      250      255
Lys Val Ala Val Lys Val Phe Phe Thr Thr Glu Glu Ala Ser Trp Phe
      260      265      270
Arg Glu Thr Glu Ile Tyr Gln Thr Val Leu Met Arg His Glu Asn Ile
      275      280      285
Leu Gly Phe Ile Ala Ala Asp Ile Lys Gly Thr Gly Ser Trp Thr Gln
      290      295      300
Leu Tyr Leu Ile Thr Asp Tyr His Glu Asn Gly Ser Leu Tyr Asp Phe
305      310      315      320
Leu Lys Cys Ala Thr Leu Asp Thr Arg Ala Leu Leu Lys Leu Ala Tyr
      325      330      335
Ser Ala Ala Cys Gly Leu Cys His Leu His Thr Glu Ile Tyr Gly Thr
      340      345      350
Gln Gly Lys Pro Ala Ile Ala His Arg Asp Leu Lys Ser Lys Asn Ile
      355      360      365
Leu Ile Lys Lys Asn Gly Ser Cys Cys Ile Ala Asp Leu Gly Leu Ala
      370      375      380
Val Lys Phe Asn Ser Asp Thr Asn Glu Val Asp Ile Pro Leu Asn Thr
385      390      395      400
Arg Val Gly Thr Arg Arg Tyr Met Ala Pro Glu Val Leu Asp Glu Ser
      405      410      415
Leu Ser Lys Asn His Phe Gln Pro Tyr Ile Met Ala Asp Ile Tyr Ser
      420      425      430
Phe Gly Leu Ile Ile Trp Glu Met Ala Arg Arg Cys Ile Thr Gly Gly
      435      440      445
Ile Val Glu Glu Tyr Gln Leu Pro Tyr Tyr Asn Met Val Pro Ser Asp
      450      455      460
Pro Ser Tyr Glu Asp Met Arg Glu Val Val Cys Val Lys Arg Leu Arg
465      470      475      480
Pro Ile Val Ser Asn Arg Trp Asn Ser Asp Glu Cys Leu Arg Ala Val
      485      490      495
Leu Lys Leu Met Ser Glu Cys Trp Ala His Asn Pro Ala Ser Arg Leu
      500      505      510
Thr Ala Leu Arg Ile Lys Lys Thr Leu Ala Lys Met Val Glu Ser Gln
      515      520      525
Asp Val Lys Ile
      530

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<210> 80
<211> 530
<212> PRT
<213> Homo sapiens

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

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

<210> 81
 <211> 530
 <212> PRT
 <213> Homo sapiens

<400> 81
 Met Thr Ser Ser Leu Gln Arg Pro Trp Arg Val Pro Trp Leu Pro Trp
 1 5 10 15
 Thr Ile Leu Leu Val Ser Thr Ala Ala Ala Ser Gln Asn Gln Glu Arg
 20 25 30
 Leu Cys Ala Phe Lys Asp Pro Tyr Gln Gln Asp Leu Gly Ile Gly Glu
 35 40 45
 Ser Arg Ile Ser His Glu Asn Gly Thr Ile Leu Cys Ser Lys Gly Ser
 50 55 60
 Thr Cys Tyr Gly Leu Trp Glu Lys Ser Lys Gly Asp Ile Asn Leu Val
 65 70 75 80
 Lys Gln Gly Cys Trp Ser His Ile Gly Asp Pro Gln Glu Cys His Tyr
 85 90 95
 Glu Glu Cys Val Val Thr Thr Thr Pro Pro Ser Ile Gln Asn Gly Thr
 100 105 110
 Tyr Arg Phe Cys Cys Cys Ser Thr Asp Leu Cys Asn Val Asn Phe Thr
 115 120 125
 Glu Asn Phe Pro Pro Pro Asp Thr Thr Pro Leu Ser Pro Pro His Ser
 130 135 140
 Phe Asn Arg Asp Glu Thr Ile Ile Ile Ala Leu Ala Ser Val Ser Val
 145 150 155 160
 Leu Ala Val Leu Ile Val Ala Leu Cys Phe Gly Tyr Arg Met Leu Thr
 165 170 175
 Gly Asp Arg Lys Gln Gly Leu His Ser Met Asn Met Met Glu Ala Ala
 180 185 190
 Ala Ser Glu Pro Ser Leu Asp Leu Asp Asn Leu Lys Leu Leu Glu Leu
 195 200 205
 Ile Gly Arg Gly Arg Tyr Gly Ala Val Tyr Lys Gly Ser Leu Asp Glu
 210 215 220
 Arg Pro Val Ala Val Lys Val Phe Ser Phe Ala Asn Arg Gln Asn Phe
 225 230 235 240
 Ile Asn Glu Lys Asn Ile Tyr Arg Val Pro Leu Met Glu His Asp Asn
 245 250 255
 Ile Ala Arg Phe Ile Val Gly Asp Glu Arg Val Thr Ala Asp Gly Arg
 260 265 270
 Met Glu Tyr Leu Leu Val Met Glu Tyr Tyr Pro Asn Gly Ser Leu Cys
 275 280 285
 Lys Tyr Leu Ser Leu His Thr Ser Asp Trp Val Ser Ser Cys Arg Leu
 290 295 300
 Ala His Ser Val Thr Arg Gly Leu Ala Tyr Leu His Thr Glu Leu Pro
 305 310 315 320
 Arg Gly Asp His Tyr Lys Pro Ala Ile Ser His Arg Asp Leu Asn Ser
 325 330 335
 Arg Asn Val Leu Val Lys Asn Asp Gly Thr Cys Val Ile Ser Asp Phe
 340 345 350
 Gly Leu Ser Met Arg Leu Thr Gly Asn Arg Leu Val Arg Pro Gly Glu
 355 360 365
 Glu Asp Asn Ala Ala Ile Ser Glu Val Gly Thr Ile Arg Tyr Met Ala
 370 375 380
 Pro Glu Val Leu Glu Gly Ala Val Asn Leu Arg Asp Cys Glu Ser Ala
 385 390 395 400

Leu Lys Gln Val Asp Met Tyr Ala Leu Gly Leu Ile Tyr Trp Glu Ile
 405 410 415
 Phe Met Arg Cys Thr Asp Leu Phe Pro Gly Glu Ser Val Pro Glu Tyr
 420 425 430
 Gln Met Ala Phe Gln Thr Glu Val Gly Asn His Pro Thr Phe Glu Asp
 435 440 445
 Met Gln Val Leu Val Ser Arg Glu Lys Gln Arg Pro Lys Phe Pro Glu
 450 455 460
 Ala Trp Lys Glu Asn Ser Leu Ala Val Arg Ser Leu Lys Glu Thr Ile
 465 470 475 480
 Glu Asp Cys Trp Asp Gln Asp Ala Glu Ala Arg Leu Thr Ala Gln Cys
 485 490 495
 Ala Glu Glu Arg Met Ala Glu Leu Met Met Ile Trp Glu Arg Asn Lys
 500 505 510
 Ser Val Ser Pro Thr Val Asn Pro Met Ser Thr Ala Met Gln Asn Glu
 515 520 525
 Arg Arg
 530

<210> 82
 <211> 1038
 <212> PRT
 <213> Homo sapiens

<400> 82
 Met Thr Ser Ser Leu Gln Arg Pro Trp Arg Val Pro Trp Leu Pro Trp
 1 5 10 15
 Thr Ile Leu Leu Val Ser Thr Ala Ala Ser Gln Asn Gln Glu Arg
 20 25 30
 Leu Cys Ala Phe Lys Asp Pro Tyr Gln Gln Asp Leu Gly Ile Gly Glu
 35 40 45
 Ser Arg Ile Ser His Glu Asn Gly Thr Ile Leu Cys Ser Lys Gly Ser
 50 55 60
 Thr Cys Tyr Gly Leu Trp Glu Lys Ser Lys Gly Asp Ile Asn Leu Val
 65 70 75 80
 Lys Gln Gly Cys Trp Ser His Ile Gly Asp Pro Gln Glu Cys His Tyr
 85 90 95
 Glu Glu Cys Val Thr Thr Thr Pro Pro Ser Ile Gln Asn Gly Thr
 100 105 110
 Tyr Arg Phe Cys Cys Cys Ser Thr Asp Leu Cys Asn Val Asn Phe Thr
 115 120 125
 Glu Asn Phe Pro Pro Pro Asp Thr Thr Pro Leu Ser Pro Pro His Ser
 130 135 140
 Phe Asn Arg Asp Glu Thr Ile Ile Ile Ala Leu Ala Ser Val Ser Val
 145 150 155 160
 Leu Ala Val Leu Ile Val Ala Leu Cys Phe Gly Tyr Arg Met Leu Thr
 165 170 175
 Gly Asp Arg Lys Gln Gly Leu His Ser Met Asn Met Met Glu Ala Ala
 180 185 190
 Ala Ser Glu Pro Ser Leu Asp Leu Asp Asn Leu Lys Leu Leu Glu Leu
 195 200 205
 Ile Gly Arg Gly Arg Tyr Gly Ala Val Tyr Lys Gly Ser Leu Asp Glu
 210 215 220
 Arg Pro Val Ala Val Lys Val Phe Ser Phe Ala Asn Arg Gln Asn Phe
 225 230 235 240
 Ile Asn Glu Lys Asn Ile Tyr Arg Val Pro Leu Met Glu His Asp Asn
 245 250 255

Ile	Ala	Arg	Phe	Ile	Val	Gly	Asp	Glu	Arg	Val	Thr	Ala	Asp	Gly	Arg
			260					265					270		
Met	Glu	Tyr	Leu	Leu	Val	Met	Glu	Tyr	Tyr	Pro	Asn	Gly	Ser	Leu	Cys
			275					280				285			
Lys	Tyr	Leu	Ser	Leu	His	Thr	Ser	Asp	Trp	Val	Ser	Ser	Cys	Arg	Leu
			290					295				300			
Ala	His	Ser	Val	Thr	Arg	Gly	Leu	Ala	Tyr	Leu	His	Thr	Glu	Leu	Pro
305						310					315				320
Arg	Gly	Asp	His	Tyr	Lys	Pro	Ala	Ile	Ser	His	Arg	Asp	Leu	Asn	Ser
						325					330				335
Arg	Asn	Val	Leu	Val	Lys	Asn	Asp	Gly	Thr	Cys	Val	Ile	Ser	Asp	Phe
						340									350
Gly	Leu	Ser	Met	Arg	Leu	Thr	Gly	Asn	Arg	Leu	Val	Arg	Pro	Gly	Glu
			355					360					365		
Glu	Asp	Asn	Ala	Ala	Ile	Ser	Glu	Val	Gly	Thr	Ile	Arg	Tyr	Met	Ala
						375						380			
Pro	Glu	Val	Leu	Glu	Gly	Ala	Val	Asn	Leu	Arg	Asp	Cys	Glu	Ser	Ala
385						390						395			400
Leu	Lys	Gln	Val	Asp	Met	Tyr	Ala	Leu	Gly	Leu	Ile	Tyr	Trp	Glu	Ile
						405									415
Phe	Met	Arg	Cys	Thr	Asp	Leu	Phe	Pro	Gly	Glu	Ser	Val	Pro	Glu	Tyr
						420									430
Gln	Met	Ala	Phe	Gln	Thr	Glu	Val	Gly	Asn	His	Pro	Thr	Phe	Glu	Asp
						435									445
Met	Gln	Val	Leu	Val	Ser	Arg	Glu	Lys	Gln	Arg	Pro	Lys	Phe	Pro	Glu
						450									460
Ala	Trp	Lys	Glu	Asn	Ser	Leu	Ala	Val	Arg	Ser	Leu	Lys	Glu	Thr	Ile
465						470									480
Glu	Asp	Cys	Trp	Asp	Gln	Asp	Ala	Glu	Ala	Arg	Leu	Thr	Ala	Gln	Cys
						485									495
Ala	Glu	Glu	Arg	Met	Ala	Glu	Leu	Met	Met	Ile	Trp	Glu	Arg	Asn	Lys
						500									510
Ser	Val	Ser	Pro	Thr	Val	Asn	Pro	Met	Ser	Thr	Ala	Met	Gln	Asn	Glu
						515									525
Arg	Asn	Leu	Ser	His	Asn	Arg	Arg	Val	Pro	Lys	Ile	Gly	Pro	Tyr	Pro
						530									540
Asp	Tyr	Ser	Ser	Ser	Ser	Tyr	Ile	Glu	Asp	Ser	Ile	His	His	Thr	Asp
545						550									560
Ser	Ile	Val	Lys	Asn	Ile	Ser	Ser	Glu	His	Ser	Met	Ser	Ser	Thr	Pro
						565									575
Leu	Thr	Ile	Gly	Glu	Lys	Asn	Arg	Asn	Ser	Ile	Asn	Tyr	Glu	Arg	Gln
						580									590
Gln	Ala	Gln	Ala	Arg	Ile	Pro	Ser	Pro	Glu	Thr	Ser	Val	Thr	Ser	Leu
						595									605
Ser	Thr	Asn	Thr	Thr	Thr	Thr	Asn	Thr	Thr	Gly	Leu	Thr	Pro</		

Gln Asp Phe Thr Gln Thr Ala Asn Gly Gln Ala Cys Leu Ile Pro Asp
 725 730 735
 Val Leu Pro Thr Gln Ile Tyr Pro Leu Pro Lys Gln Gln Asn Leu Pro
 740 745 750
 Lys Arg Pro Thr Ser Leu Pro Leu Asn Thr Lys Asn Ser Thr Lys Glu
 755 760 765
 Pro Arg Leu Lys Phe Gly Ser Lys His Lys Ser Asn Leu Lys Gln Val
 770 775 780
 Glu Thr Gly Val Ala Lys Met Asn Thr Ile Asn Ala Ala Glu Pro His
 785 790 795 800
 Val Val Thr Val Thr Met Asn Gly Val Ala Gly Arg Asn His Ser Val
 805 810 815
 Asn Ser His Ala Ala Thr Thr Gln Tyr Ala Asn Gly Thr Val Leu Ser
 820 825 830
 Gly Gln Thr Thr Asn Ile Val Thr His Arg Ala Gln Glu Met Leu Gln
 835 840 845
 Asn Gln Phe Ile Gly Glu Asp Thr Arg Leu Asn Ile Asn Ser Ser Pro
 850 855 860
 Asp Glu His Glu Pro Leu Leu Arg Arg Glu Gln Gln Ala Gly His Asp
 865 870 875 880
 Glu Gly Val Leu Asp Arg Leu Val Asp Arg Arg Glu Arg Pro Leu Glu
 885 890 895
 Gly Gly Arg Thr Asn Ser Asn Asn Asn Asn Ser Asn Pro Cys Ser Glu
 900 905 910
 Gln Asp Val Leu Ala Gln Gly Val Pro Ser Thr Ala Ala Asp Pro Gly
 915 920 925
 Pro Ser Lys Pro Arg Arg Ala Gln Arg Pro Asn Ser Leu Asp Leu Ser
 930 935 940
 Ala Thr Asn Val Leu Asp Gly Ser Ser Ile Gln Ile Gly Glu Ser Thr
 945 950 955 960
 Gln Asp Gly Lys Ser Gly Ser Gly Glu Lys Ile Lys Lys Arg Val Lys
 965 970 975
 Thr Pro Tyr Ser Leu Lys Arg Trp Arg Pro Ser Thr Trp Val Ile Ser
 980 985 990
 Thr Glu Ser Leu Asp Cys Glu Val Asn Asn Asn Gly Ser Asn Arg Ala
 995 1000 1005
 Val His Ser Lys Ser Ser Thr Ala Val Tyr Leu Ala Glu Gly Gly Thr
 1010 1015 1020
 Ala Thr Thr Met Val Ser Lys Asp Ile Gly Met Asn Cys Leu
 1025 1030 1035

<210> 83

<211> 1038

<212> PRT

<213> Homo sapiens

<400> 83

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

Lys	Gln	Gly	Cys	Trp	Ser	His	Ile	Gly	Asp	Pro	Gln	Glu	Cys	His	Tyr		
				85					90					95			
Glu	Glu	Cys	Val	Val	Thr	Thr	Thr	Pro	Pro	Ser	Ile	Gln	Asn	Gly	Thr		
			100					105					110				
Tyr	Arg	Phe	Cys	Cys	Cys	Ser	Thr	Asp	Leu	Cys	Asn	Val	Asn	Phe	Thr		
		115					120					125					
Glu	Asn	Phe	Pro	Pro	Pro	Asp	Thr	Thr	Pro	Leu	Ser	Pro	Pro	His	Ser		
	130					135					140						
Phe	Asn	Arg	Asp	Glu	Thr	Ile	Ile	Ile	Ala	Leu	Ala	Ser	Val	Ser	Val		
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Ile	Ala	Arg	Phe	Ile	Val	Gly	Asp	Glu	Arg	Val	Thr	Ala	Asp	Gly	Arg		
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Met	Glu	Tyr	Leu	Leu	Val	Met	Glu	Tyr	Tyr	Pro	Asn	Gly	Ser	Leu	Cys		
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 Thr Cys Tyr Gly Leu Trp Glu Lys Ser Lys Gly Asp Ile Asn Leu Val
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 Lys Gln Gly Cys Trp Ser His Ile Gly Asp Pro Gln Glu Cys His Tyr
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 Glu Glu Cys Val Val Thr Thr Thr Pro Pro Ser Ile Gln Asn Gly Thr
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 Tyr Arg Phe Cys Cys Cys Ser Thr Asp Leu Cys Asn Val Asn Phe Thr
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 Glu Asn Phe Pro Pro Pro Asp Thr Thr Pro Leu Ser Pro Pro His Ser
 130 135 140
 Phe Asn Arg Asp Glu Thr Ile Ile Ile Ala Leu Ala Ser Val Ser Val
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 Gly Leu Ser Met Arg Leu Thr Gly Asn Arg Leu Val Arg Pro Gly Glu
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Glu	Asp	Asn	Ala	Ala	Ile	Ser	Glu	Val	Gly	Thr	Ile	Arg	Tyr	Met	Ala	370	375	380
Pro	Glu	Val	Leu	Glu	Gly	Ala	Val	Asn	Leu	Arg	Asp	Cys	Glu	Ser	Ala	385	390	395
Leu	Lys	Gln	Val	Asp	Met	Tyr	Ala	Leu	Gly	Leu	Ile	Tyr	Trp	Glu	Ile	405	410	415
Phe	Met	Arg	Cys	Thr	Asp	Leu	Phe	Pro	Gly	Glu	Ser	Val	Pro	Glu	Tyr	420	425	430
Gln	Met	Ala	Phe	Gln	Thr	Glu	Val	Gly	Asn	His	Pro	Thr	Phe	Glu	Asp	435	440	445
Met	Gln	Val	Leu	Val	Ser	Arg	Glu	Lys	Gln	Arg	Pro	Lys	Phe	Pro	Glu	450	455	460
Ala	Trp	Lys	Glu	Asn	Ser	Leu	Ala	Val	Arg	Ser	Leu	Lys	Glu	Thr	Ile	465	470	475
Glu	Asp	Cys	Trp	Asp	Gln	Asp	Ala	Glu	Ala	Arg	Leu	Thr	Ala	Gln	Cys	485	490	495
Ala	Glu	Glu	Arg	Met	Ala	Glu	Leu	Met	Met	Ile	Trp	Glu	Arg	Asn	Lys	500	505	510
Ser	Val	Ser	Pro	Thr	Val	Asn	Pro	Met	Ser	Thr	Ala	Met	Gln	Asn	Glu	515	520	525
Arg	Asn	Leu	Ser	His	Asn	Arg	Arg	Val	Pro	Lys	Ile	Gly	Pro	Tyr	Pro	530	535	540
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Val	Asp	Lys	Asn	Leu	Lys	Glu	Ser	Ser	Asp	Glu	Asn	Leu	Met	Glu	His	675	680	685
Ser	Leu	Lys	Gln	Phe	Ser	Gly	Pro	Asp	Pro	Leu	Ser	Ser	Thr	Ser	Ser	690	695	700
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Gln	Asp	Phe	Thr	Gln	Thr	Ala	Asn	Gly	Gln	Ala	Cys	Leu	Ile	Pro	Asp	725	730	735
Val	Leu	Pro	Thr	Gln	Ile	Tyr	Pro	Leu	Pro	Lys	Gln	Gln	Asn	Leu	Pro	740	745	750
Lys	Arg	Pro	Thr	Ser	Leu	Pro	Leu	Asn	Thr	Lys	Asn	Ser	Thr	Lys	Glu	755	760	765
Pro	Arg	Leu	Lys	Phe	Gly	Ser	Lys	His	Lys	Ser	Asn	Leu	Lys	Gln	Val	770	775	780
Glu	Thr	Gly	Val	Ala	Lys	Met	Asn	Thr	Ile	Asn	Ala	Ala	Glu	Pro	His	785	790	795
Val	Val	Thr	Val	Thr	Met	Asn	Gly	Val	Ala	Gly	Arg	Asn	His	Ser	Val	805	810	815
Asn	Ser	His	Ala	Ala	Thr	Thr	Gln	Tyr	Ala	Asn	Arg	Thr	Val	Leu	Ser	820	825	830

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<212> DNA

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<400> 87

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<211> 3167

<212> DNA

<213> Rattus sp.

<400> 88

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<211> 3167

<212> DNA

<213> Rattus norvegicus

<400> 89

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<212> DNA

<213> Rattus norvegicus

<400> 90

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<212> DNA

<213> Homo sapiens

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<210> 92

<211> 1964

<212> DNA

<213> Homo sapiens

<400> 92

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<213> Homo sapiens

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<210> 94

<211> 3871

<212> DNA

<213> Homo sapiens

<400> 94

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<210> 95

<211> 88

<212> PRT

<213> Homo sapiens

<400> 95

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      20             25             30
Ala Arg Leu Leu Pro Asn Ala Ile Gly Arg Gly Lys Trp Trp Arg Pro
      35             40             45
Ser Gly Pro Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg
      50             55             60
Val Gln Leu Leu Cys Pro Gly Gly Glu Ala Pro Arg Ala Arg Lys Val
      65             70             75             80
Arg Leu Val Ala Ser Cys Lys Cys
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<210> 96

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<211> 82
<212> PRT
<213> Homo sapiens
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<400> 96
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          20           25           30
Met Thr Arg Val Leu Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val
          35           40           45
Cys Asn Tyr Arg Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys
          50           55           60
Pro Arg Gly Val Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys
65           70           75           80
Gln Cys

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<210> 97
<211> 82
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<213> Homo sapiens
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Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys Ile Gln Lys Thr
      35           40           45
Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro Gly Cys
      50           55           60
Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr Gln Cys
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His Cys

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<210> 98
<211> 84
<212> PRT
<213> Homo sapiens
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          20             25             30
Arg Asp Ile Asn Gly Lys Leu Phe Leu Pro Lys Tyr Ala Leu Ser Gln
          35             40             45
Asp Val Cys Thr Tyr Arg Asp Phe Ile Tyr Arg Thr Val Glu Ile Pro
          50             55             60
Gly Cys Pro Leu His Val Ala Pro Tyr Phe Ser Tyr Pro Val Ala Leu
65             70             75             80
Ser Cys Lys Cys

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<210> 99
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 99
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 35 40 45
 Ser Cys Cys Ser Pro Thr Arg Thr Glu Pro Met Gln Val Ala Leu His
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 Cys Thr Asn Gly Ser Val Val Tyr His Glu Val Leu Asn Ala Met Glu
 65 70 75 80
 Cys Lys Cys

<210> 100
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 100
 Cys Ser Thr Val Pro Val Thr Thr Glu Val Ser Tyr Ala Gly Cys Thr
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<210> 101
 <211> 80
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<400> 101
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 65 70 75 80

<210> 102

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

<400> 102

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

<210> 103
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 <213> Homo sapiens

<400> 103

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

<210> 104
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 104

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

<210> 105

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

<400> 105

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

<210> 106
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 106

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

<210> 107
 <211> 205
 <212> PRT
 <213> Homo sapiens

<400> 107

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

130		135		140
Tyr Val Lys Val Gly Ser Cys Phe Ser Lys Arg Ser Cys Ser Val Pro				
145		150		155
Glu Gly Met Val Cys Lys Pro Ser Lys Ser Val His Leu Thr Val Leu				
	165		170	
Arg Trp Arg Cys Gln Arg Arg Gly Gly Gln Arg Cys Gly Trp Ile Pro				
	180		185	190
Ile Gln Tyr Pro Ile Ile Ser Glu Cys Lys Cys Ser Cys				
195		200		205

<210> 108
 <211> 197
 <212> PRT
 <213> Gallus gallus

<400> 108

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

<210> 109
 <211> 196
 <212> PRT
 <213> Xenopus laevis

<400> 109

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

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

<210> 110
 <211> 195
 <212> PRT
 <213> Takifugu rubripes

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

<210> 111
 <211> 196
 <212> PRT

<213> Danio rerio

<400> 111

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

<210> 112

<211> 188

<212> PRT

<213> Mus musculus

<400> 112

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

Ala	Lys	Ala	Asn	Gln	Ala	Glu	Leu	Glu	Asn	Ala	Tyr	175
		180		165				185		170		