

<110> YOO YOUNG PHARM CO.,LTD.
 <120> CHIMERIC ANTIGEN RECEPTOR AND T CELLS EXPRESSING THE CHIMERIC ANTIGEN RECEPTOR
 <130> KR15P0802PCT
 <150> 10-2015-0110788
 <151> 2015-08-05
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 <170> KoPatentIn 3.0
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 1 5 10 15
 Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys Asn Gly Ser Met
 20 25 30
 Val Trp Ser Ile Asn Leu Thr Ala Gly Met Tyr Cys Ala Ala Leu Glu
 35 40 45
 Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu Lys Thr Gln Arg
 50 55 60
 Met Leu Ser Gly Phe Cys Pro His Lys Val Ser Ala Gly Gln Phe Ser
 65 70 75 80
 Ser Leu His Val Arg Asp Thr Lys Ile Glu Val Ala Gln Phe Val Lys
 85 90 95
 Asp Leu Leu Leu His Leu Lys Lys Leu Phe Arg Glu Gly Gln Phe Asn
 100 105 110

<210> 2
 <211> 92
 <212> PRT
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<400> 2
 Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Arg His
 1 5 10 15
 Pro His Phe Pro Thr Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
 20 25 30
 Gly Asn Ser Pro Val Gln Glu Phe Thr Val Leu Gln Pro Pro Ser Thr
 35 40 45
 Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val

KR15P0802pct_seq.txt

50 55 60
Tyr Ala Val Val Glu Arg Asn Gly Arg Glu Leu Asn Thr Pro Pro Ile
65 70 75 80
Ser Ile Asn Tyr Arg Thr His His His His His His
85 90

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<220>
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<400>		3													
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Ser	Leu	Lys	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Thr	Phe	Ser 30	Lys	Phe
Gly	Met	Ser 35	Trp	Val	Arg	Gln	Thr 40	Pro	Asp	Lys	Arg	Leu 45	Glu	Trp	Val
Ala	Ser 50	Ile	Ser	Thr	Gly	Gly 55	Tyr	Asn	Thr	Phe	Tyr 60	Ser	Asp	Asn	Val
Lys 65	Gly	Arg	Phe	Thr	Ile 70	Ser	Arg	Asp	Asn	Ala 75	Lys	Asn	Thr	Leu	Tyr 80
Leu	Gln	Met	Ser	Ser 85	Leu	Lys	Ser	Glu	Asp 90	Thr	Ala	Met	Tyr	Tyr 95	Cys
Ala	Arg	Gly	Tyr 100	Ser	Ser	Thr	Ser	Phe 105	Ala	Met	Asp	Tyr	Trp 110	Gly	Gln
Gly	Thr	Met 115	Val	Thr	Val	Ser	Ser 120	Gly	Ser	Thr	Ser	Gly 125	Ser	Gly	Lys
Pro	Gly 130	Ser	Gly	Glu	Gly	Ser 135	Asp	Ile	Gln	Met	Thr 140	Gln	Ser	Pro	Ser
Ser 145	Leu	Ser	Ala	Ser	Val 150	Gly	Asp	Arg	Val	Thr 155	Ile	Thr	Cys	Met	Thr 160
Ser	Thr	Asp	Ile	Asp 165	Asp	Asp	Met	Asn	Trp 170	Tyr	Gln	Gln	Lys	Pro 175	Gly
Lys	Thr	Pro	Lys 180	Leu	Leu	Ile	Tyr	Glu 185	Gly	Asn	Thr	Leu	Arg 190	Pro	Gly
Val	Pro	Ser 195	Arg	Phe	Ser	Gly	Ser 200	Gly	Ser	Gly	Thr	Asp 205	Phe	Ile	Phe
Thr	Ile 210	Ser	Ser	Leu	Gln	Pro 215	Glu	Asp	Ile	Ala	Thr 220	Tyr	Tyr	Cys	Leu
Gln 225	Ser	Phe	Asn	Val	Pro 230	Leu	Thr	Phe	Gly	Gly 235	Gly	Thr	Lys	Val	Glu 240
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<211> 141
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<220>
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1 5 10 15
Glu Asp Tyr Thr Ile His Val Gln Leu Asn Asp Tyr Val Asp Ile Ile
20 25 30
Cys Pro His Tyr Glu Asp His Ser Val Ala Asp Ala Ala Met Glu Gln
35 40 45
Tyr Ile Leu Tyr Leu Val Glu His Glu Glu Tyr Gln Leu Cys Gln Pro
50 55 60
Gln Ser Lys Asp Gln Val Arg Trp Gln Cys Asn Arg Pro Ser Ala Lys
65 70 75 80
His Gly Pro Glu Lys Leu Ser Glu Lys Phe Gln Arg Phe Thr Ala Phe
85 90 95
Ala Leu Ala Lys Glu Phe Lys Ala Gly His Ser Tyr Tyr Tyr Ile Ser
100 105 110
Lys Pro Ile His Gln His Glu Asp Arg Cys Leu Arg Leu Lys Val Thr
115 120 125
Val Ser Gly Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
130 135 140

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<211> 104
<212> PRT
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<220>
<223> HUMAN

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

Lys Leu Ile Ser Glu Glu Asp Leu
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<211> 418
<212> PRT
<213> Unknown

<220>
<223> HUMAN

<400> 6
Thr Ser Pro Cys Asp Asn Phe Asp Cys Gln Asn Gly Ala Gln Cys Ile
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Val Arg Ile Asn Glu Pro Ile Cys Gln Cys Leu Pro Gly Tyr Gln Gly
20 25 30
Glu Lys Cys Glu Lys Leu Val Ser Val Asn Phe Ile Asn Lys Glu Ser
35 40 45
Tyr Leu Gln Ile Pro Ser Ala Lys Val Arg Pro Gln Thr Asn Ile Thr
50 55 60
Leu Gln Ile Ala Thr Asp Glu Asp Ser Gly Ile Leu Leu Tyr Lys Gly
65 70 75 80
Asp Lys Asp His Ile Ala Val Glu Leu Tyr Arg Gly Arg Val Arg Ala
85 90 95
Ser Tyr Asp Thr Gly Ser His Pro Ala Ser Ala Ile Tyr Ser Val Glu
100 105 110
Thr Ile Asn Asp Gly Asn Phe His Ile Val Glu Leu Leu Ala Leu Asp
115 120 125
Gln Ser Leu Ser Leu Ser Val Asp Gly Gly Asn Pro Lys Ile Ile Thr
130 135 140
Asn Leu Ser Lys Gln Ser Thr Leu Asn Phe Asp Ser Pro Leu Tyr Val
145 150 155 160
Gly Gly Met Pro Gly Lys Ser Asn Val Ala Ser Leu Arg Gln Ala Pro
165 170 175
Gly Gln Asn Gly Thr Ser Phe His Gly Cys Ile Arg Asn Leu Tyr Ile
180 185 190
Asn Ser Glu Leu Gln Asp Phe Gln Lys Val Pro Met Gln Thr Gly Ile
195 200 205
Leu Pro Gly Cys Glu Pro Cys His Lys Lys Val Cys Ala His Gly Thr
210 215 220
Cys Gln Pro Ser Ser Gln Ala Gly Phe Thr Cys Glu Cys Gln Glu Gly
225 230 235 240
Trp Met Gly Pro Leu Cys Asp Gln Arg Thr Asn Asp Pro Cys Leu Gly
245 250 255
Asn Lys Cys Val His Gly Thr Cys Leu Pro Ile Asn Ala Phe Ser Tyr
260 265 270
Ser Cys Lys Cys Leu Glu Gly His Gly Gly Val Leu Cys Asp Glu Glu
275 280 285

KR15P0802pct_seq.txt

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

Asp Leu

<210> 7
 <211> 41
 <212> PRT
 <213> Unknown

<220>
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<400> 7
 Arg Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr Met Asn Met Thr
 1 5 10 15
 Pro Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro
 20 25 30
 Pro Arg Asp Phe Ala Ala Tyr Arg Ser
 35 40

<210> 8
 <211> 42
 <212> PRT
 <213> Unknown

<220>
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<400> 8
 Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met
 1 5 10 15
 Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe
 20 25 30
 Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu
 35 40

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 <211> 47
 <212> PRT
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<220>
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<400> 9
 Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr
 1 5 10 15
 Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala
 20 25 30
 Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40 45

<210> 10
 <211> 45
 <212> PRT
 <213> Unknown

<220>
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<400> 10
 Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr
 1 5 10 15
 Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Ala Arg Pro Ala
 20 25 30
 Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala
 35 40 45

<210> 11
 <211> 21
 <212> PRT
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<220>
 <223> HUMAN

<400> 11
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15
 Ser Leu Val Ile Thr
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<210> 12
 <211> 23
 <212> PRT
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<220>
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KR15P0802pct_seq.txt

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 Leu Ala Tyr Leu Leu Asp Gly Ile Leu Phe Ile Tyr Gly Val Ile Leu
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 Thr Ala Leu Phe Leu Arg Val
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<210> 13
 <211> 113
 <212> PRT
 <213> Unknown
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 <223> HUMAN

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

<210> 14
 <211> 359
 <212> PRT
 <213> Unknown
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 <223> HUMAN

<400> 14
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 Val His Ser Gly Pro Val Pro Pro Ser Thr Ala Leu Arg Lys Leu Ile
 20 25 30
 Glu Glu Leu Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys Asn
 35 40 45
 Gly Ser Met Val Trp Ser Ile Asn Leu Thr Ala Gly Met Tyr Cys Ala
 50 55 60
 Ala Leu Glu Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu Lys
 65 70 75 80

KR15P0802pct_seq.txt

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

<210> 15
<211> 400
<212> PRT
<213> Unknown

<220>
<223> HUMAN

<400> 15
Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
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KR15P0802pct_seq.txt

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

KR15P0802pct_seq.txt

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
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<210> 16
<211> 400
<212> PRT
<213> Unknown

<220>
<223> HUMAN

<400> 16
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Val His Ser Gly Pro Val Pro Pro Ser Thr Ala Leu Arg Lys Leu Ile
20 25 30
Glu Glu Leu Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys Asn
35 40 45
Gly Ser Met Val Trp Ser Ile Asn Leu Thr Ala Gly Met Tyr Cys Ala
50 55 60
Ala Leu Glu Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu Lys
65 70 75 80
Thr Gln Arg Met Leu Ser Gly Phe Cys Pro His Lys Val Ser Ala Gly
85 90 95
Gln Phe Ser Ser Leu His Val Arg Asp Thr Lys Ile Glu Val Ala Gln
100 105 110
Phe Val Lys Asp Leu Leu Leu His Leu Lys Lys Leu Phe Lys Glu Gly
115 120 125
Gln Phe Asn Gly Gly Gly Pro Arg Lys Pro Thr Thr Thr Pro Ala Pro
130 135 140
Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu
145 150 155 160
Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg
165 170 175
Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly
180 185 190
Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Arg Ser Lys Arg
195 200 205
Ser Arg Gly Gly His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro
210 215 220
Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe
225 230 235 240
Ala Ala Tyr Arg Ser Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe
245 250 255
Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly
260 265 270
Cys Ser Cys Arg Phe Pro Glu Glu Glu Gly Gly Cys Glu Leu Arg
275 280 285

KR15P0802pct_seq.txt

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

<210> 17
 <211> 339
 <212> PRT
 <213> Unknown

<220>
 <223> HUMAN

<400> 17
 Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
 1 5 10 15
 Val His Ser Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30
 Trp Arg His Pro His Phe Pro Thr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45
 Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Leu Gln Pro
 50 55 60
 Pro Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80
 Ile Thr Val Tyr Ala Val Val Glu Arg Asn Gly Arg Glu Leu Asn Thr
 85 90 95
 Pro Pro Ile Ser Ile Asn Tyr Arg Thr His His His His His His Gly
 100 105 110
 Gly Gly Pro Arg Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr
 115 120 125
 Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala
 130 135 140
 Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe
 145 150 155 160
 Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val
 165 170 175
 Leu Leu Leu Ser Leu Val Ile Thr Lys Arg Gly Arg Lys Lys Leu Leu
 180 185 190

KR15P0802pct_seq.txt

Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu
195 200 205
Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys
210 215 220
Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln
225 230 235 240
Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu
245 250 255
Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly
260 265 270
Gly Lys Pro Gln Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu
275 280 285
Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys
290 295 300
Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu
305 310 315 320
Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu
325 330 335
Pro Pro Arg

<210> 18
<211> 380
<212> PRT
<213> Unknown

<220>
<223> HUMAN

<400> 18
Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15
Val His Ser Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30
Trp Arg His Pro His Phe Pro Thr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45
Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Leu Gln Pro
50 55 60
Pro Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80
Ile Thr Val Tyr Ala Val Val Glu Arg Asn Gly Arg Glu Leu Asn Thr
85 90 95
Pro Pro Ile Ser Ile Asn Tyr Arg Thr His His His His His His Gly
100 105 110
Gly Gly Pro Arg Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr
115 120 125
Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala
130 135 140

KR15P0802pct_seq.txt

Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe
145 150 155 160
Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val
165 170 175
Leu Leu Leu Ser Leu Val Ile Thr Arg Ser Lys Arg Ser Arg Gly Gly
180 185 190
His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro Gly Pro Thr Arg
195 200 205
Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe Ala Ala Tyr Arg
210 215 220
Ser Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe
225 230 235 240
Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg
245 250 255
Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser
260 265 270
Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr
275 280 285
Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys
290 295 300
Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Gln Arg Arg Lys
305 310 315 320
Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala
325 330 335
Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys
340 345 350
Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr
355 360 365
Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
370 375 380

<210> 19
<211> 497
<212> PRT
<213> Unknown

<220>
<223> HUMAN

<400> 19
Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15
Val His Ser Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Lys
20 25 30
Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45
Ser Lys Phe Gly Met Ser Trp Val Arg Gln Thr Pro Asp Lys Arg Leu
50 55 60

KR15P0802pct_seq.txt

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

420

425

430

Pro Gln Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln
 435 440 445
 Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu
 450 455 460
 Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr
 465 470 475 480
 Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro
 485 490 495

Arg

<210> 20
 <211> 538
 <212> PRT
 <213> Unknown

<220>
 <223> HUMAN

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

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210 215 220

Phe Ile Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr
225 230 235 240

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

Lys Val Glu Ile Lys Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Gly
260 265 270

Gly Gly Pro Arg Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr
275 280 285

Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala
290 295 300

Ala Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe
305 310 315 320

Ala Leu Ala Tyr Leu Leu Asp Gly Ile Leu Phe Ile Tyr Gly Val Ile
325 330 335

Leu Thr Ala Leu Phe Leu Arg Val Arg Ser Lys Arg Ser Arg Gly Gly
340 345 350

His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro Gly Pro Thr Arg
355 360 365

Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe Ala Ala Tyr Arg
370 375 380

Ser Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe
385 390 395 400

Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg
405 410 415

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

Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu
435 440 445

Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg
450 455 460

Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Gln Arg Arg Lys Asn Pro
465 470 475 480

Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala
485 490 495

Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His
500 505 510

Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp
515 520 525

Ala Leu His Met Gln Ala Leu Pro Pro Arg
530 535

<210> 21
<211> 388
<212> PRT
<213> Unknown

<220>

<223> HUMAN

<400>

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      21
Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
  1      5      10      15
Val His Ser Asp Arg His Thr Val Phe Trp Asn Ser Ser Asn Pro Lys
      20      25      30
Phe Arg Asn Glu Asp Tyr Thr Ile His Val Gln Leu Asn Asp Tyr Val
      35      40      45
Asp Ile Ile Cys Pro His Tyr Glu Asp His Ser Val Ala Asp Ala Ala
      50      55      60
Met Glu Gln Tyr Ile Leu Tyr Leu Val Glu His Glu Glu Tyr Gln Leu
      65      70      75      80
Cys Gln Pro Gln Ser Lys Asp Gln Val Arg Trp Gln Cys Asn Arg Pro
      85      90      95
Ser Ala Lys His Gly Pro Glu Lys Leu Ser Glu Lys Phe Gln Arg Phe
      100      105      110
Thr Ala Phe Ala Leu Ala Lys Glu Phe Lys Ala Gly His Ser Tyr Tyr
      115      120      125
Tyr Ile Ser Lys Pro Ile His Gln His Glu Asp Arg Cys Leu Arg Leu
      130      135      140
Lys Val Thr Val Ser Gly Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
      145      150      155      160
Gly Gly Gly Pro Arg Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro Pro
      165      170      175
Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu
      180      185      190
Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp
      195      200      205
Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly
      210      215      220
Val Leu Leu Leu Ser Leu Val Ile Thr Lys Arg Gly Arg Lys Lys Leu
      225      230      235      240
Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln
      245      250      255
Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly
      260      265      270
Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr
      275      280      285
Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg
      290      295      300
Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met
      305      310      315      320
Gly Gly Lys Pro Gln Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn
      325      330      335

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Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met
 340 345 350
 Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly
 355 360 365
 Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala
 370 375 380
 Leu Pro Pro Arg
 385

<210> 22
 <211> 429
 <212> PRT
 <213> Unknown

<220>
 <223> HUMAN

<400> 22
 Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
 1 5 10 15
 Val His Ser Asp Arg His Thr Val Phe Trp Asn Ser Ser Asn Pro Lys
 20 25 30
 Phe Arg Asn Glu Asp Tyr Thr Ile His Val Gln Leu Asn Asp Tyr Val
 35 40 45
 Asp Ile Ile Cys Pro His Tyr Glu Asp His Ser Val Ala Asp Ala Ala
 50 55 60
 Met Glu Gln Tyr Ile Leu Tyr Leu Val Glu His Glu Glu Tyr Gln Leu
 65 70 75 80
 Cys Gln Pro Gln Ser Lys Asp Gln Val Arg Trp Gln Cys Asn Arg Pro
 85 90 95
 Ser Ala Lys His Gly Pro Glu Lys Leu Ser Glu Lys Phe Gln Arg Phe
 100 105 110
 Thr Ala Phe Ala Leu Ala Lys Glu Phe Lys Ala Gly His Ser Tyr Tyr
 115 120 125
 Tyr Ile Ser Lys Pro Ile His Gln His Glu Asp Arg Cys Leu Arg Leu
 130 135 140
 Lys Val Thr Val Ser Gly Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
 145 150 155 160
 Gly Gly Gly Pro Arg Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro Pro
 165 170 175
 Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu
 180 185 190
 Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp
 195 200 205
 Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly
 210 215 220
 Val Leu Leu Leu Ser Leu Val Ile Thr Arg Ser Lys Arg Ser Arg Gly
 225 230 235 240

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Gly His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro Gly Pro Thr
245 250 255
Arg Lys His Tyr Gln Pro Tyr Ala Pro Arg Asp Phe Ala Ala Tyr
260 265 270
Arg Ser Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro
275 280 285
Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys
290 295 300
Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe
305 310 315 320
Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu
325 330 335
Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp
340 345 350
Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Gln Arg Arg
355 360 365
Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
370 375 380
Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
385 390 395 400
Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
405 410 415
Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
420 425

<210> 23
<211> 351
<212> PRT
<213> Unknown

<220>
<223> HUMAN

<400> 23
Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15
Val His Ser Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala
20 25 30
Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val
35 40 45
Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val
50 55 60
Gln Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly
65 70 75 80
Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Pro
85 90 95
Arg Gly Asp Trp Asn Glu Gly Ser Lys Pro Ile Ser Ile Asn Tyr Arg
100 105 110

Thr Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Gly Gly Gly Pro Arg
 115 120 125
 Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr
 130 135 140
 Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala
 145 150 155 160
 Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile
 165 170 175
 Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser
 180 185 190
 Leu Val Ile Thr Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys
 195 200 205
 Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys
 210 215 220
 Ser Cys Arg Phe Pro Glu Glu Glu Gly Gly Cys Glu Leu Arg Val
 225 230 235 240
 Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn
 245 250 255
 Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val
 260 265 270
 Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Gln
 275 280 285
 Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp
 290 295 300
 Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg
 305 310 315 320
 Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr
 325 330 335
 Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 340 345 350

<210> 24
 <211> 392
 <212> PRT
 <213> Unknown

<220>
 <223> HUMAN

<400> 24
 Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
 1 5 10 15
 Val His Ser Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala
 20 25 30
 Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val
 35 40 45
 Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val

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

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<210> 25
<211> 665

<212> PRT
<213> Unknown

<220>
<223> HUMAN

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

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His Gly Lys Cys Arg Leu Ser Gly Leu Gly Gln Pro Tyr Cys Glu Cys
 325 330 335
 Ser Ser Gly Tyr Thr Gly Asp Ser Cys Asp Arg Glu Ile Ser Cys Arg
 340 345 350
 Gly Glu Arg Ile Arg Asp Tyr Tyr Gln Lys Gln Gln Gly Tyr Ala Ala
 355 360 365
 Cys Gln Thr Thr Lys Lys Val Ser Arg Leu Glu Cys Arg Gly Gly Cys
 370 375 380
 Ala Gly Gly Gln Cys Cys Gly Pro Leu Arg Ser Lys Arg Arg Lys Tyr
 385 390 395 400
 Ser Phe Glu Cys Thr Asp Gly Ser Ser Phe Val Asp Glu Val Glu Lys
 405 410 415
 Val Val Lys Cys Gly Cys Thr Arg Cys Val Ser Glu Gln Lys Leu Ile
 420 425 430
 Ser Glu Glu Asp Leu Gly Gly Gly Pro Arg Lys Pro Thr Thr Thr Pro
 435 440 445
 Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu
 450 455 460
 Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His
 465 470 475 480
 Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu
 485 490 495
 Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Lys Arg
 500 505 510
 Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro
 515 520 525
 Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu
 530 535 540
 Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala
 545 550 555 560
 Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu
 565 570 575
 Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly
 580 585 590
 Arg Asp Pro Glu Met Gly Gly Lys Pro Gln Arg Arg Lys Asn Pro Gln
 595 600 605
 Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr
 610 615 620
 Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp
 625 630 635 640
 Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala
 645 650 655
 Leu His Met Gln Ala Leu Pro Pro Arg
 660 665

<211> 706
 <212> PRT
 <213> Unknown

<220>
 <223> HUMAN

<400> 26
 Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
 1 5 10 15
 Val His Ser Thr Ser Pro Cys Asp Asn Phe Asp Cys Gln Asn Gly Ala
 20 25 30
 Gln Cys Ile Val Arg Ile Asn Glu Pro Ile Cys Gln Cys Leu Pro Gly
 35 40 45
 Tyr Gln Gly Glu Lys Cys Glu Lys Leu Val Ser Val Asn Phe Ile Asn
 50 55 60
 Lys Glu Ser Tyr Leu Gln Ile Pro Ser Ala Lys Val Arg Pro Gln Thr
 65 70 75 80
 Asn Ile Thr Leu Gln Ile Ala Thr Asp Glu Asp Ser Gly Ile Leu Leu
 85 90 95
 Tyr Lys Gly Asp Lys Asp His Ile Ala Val Glu Leu Tyr Arg Gly Arg
 100 105 110
 Val Arg Ala Ser Tyr Asp Thr Gly Ser His Pro Ala Ser Ala Ile Tyr
 115 120 125
 Ser Val Glu Thr Ile Asn Asp Gly Asn Phe His Ile Val Glu Leu Leu
 130 135 140
 Ala Leu Asp Gln Ser Leu Ser Leu Ser Val Asp Gly Gly Asn Pro Lys
 145 150 155 160
 Ile Ile Thr Asn Leu Ser Lys Gln Ser Thr Leu Asn Phe Asp Ser Pro
 165 170 175
 Leu Tyr Val Gly Gly Met Pro Gly Lys Ser Asn Val Ala Ser Leu Arg
 180 185 190
 Gln Ala Pro Gly Gln Asn Gly Thr Ser Phe His Gly Cys Ile Arg Asn
 195 200 205
 Leu Tyr Ile Asn Ser Glu Leu Gln Asp Phe Gln Lys Val Pro Met Gln
 210 215 220
 Thr Gly Ile Leu Pro Gly Cys Glu Pro Cys His Lys Lys Val Cys Ala
 225 230 235 240
 His Gly Thr Cys Gln Pro Ser Ser Gln Ala Gly Phe Thr Cys Glu Cys
 245 250 255
 Gln Glu Gly Trp Met Gly Pro Leu Cys Asp Gln Arg Thr Asn Asp Pro
 260 265 270
 Cys Leu Gly Asn Lys Cys Val His Gly Thr Cys Leu Pro Ile Asn Ala
 275 280 285
 Phe Ser Tyr Ser Cys Lys Cys Leu Glu Gly His Gly Gly Val Leu Cys
 290 295 300
 Asp Glu Glu Glu Asp Leu Phe Asn Pro Cys Gln Ala Ile Lys Cys Lys
 305 310 315 320

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His Gly Lys Cys Arg Leu Ser Gly Leu Gly Gln Pro Tyr Cys Glu Cys
 325 330 335
 Ser Ser Gly Tyr Thr Gly Asp Ser Cys Asp Arg Glu Ile Ser Cys Arg
 340 345 350
 Gly Glu Arg Ile Arg Asp Tyr Tyr Gln Lys Gln Gln Gly Tyr Ala Ala
 355 360 365
 Cys Gln Thr Thr Lys Lys Val Ser Arg Leu Glu Cys Arg Gly Gly Cys
 370 375 380
 Ala Gly Gly Gln Cys Cys Gly Pro Leu Arg Ser Lys Arg Arg Lys Tyr
 385 390 395 400
 Ser Phe Glu Cys Thr Asp Gly Ser Ser Phe Val Asp Glu Val Glu Lys
 405 410 415
 Val Val Lys Cys Gly Cys Thr Arg Cys Val Ser Glu Gln Lys Leu Ile
 420 425 430
 Ser Glu Glu Asp Leu Gly Gly Gly Pro Arg Lys Pro Thr Thr Thr Pro
 435 440 445
 Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu
 450 455 460
 Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His
 465 470 475 480
 Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu
 485 490 495
 Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Arg Ser
 500 505 510
 Lys Arg Ser Arg Gly Gly His Ser Asp Tyr Met Asn Met Thr Pro Arg
 515 520 525
 Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg
 530 535 540
 Asp Phe Ala Ala Tyr Arg Ser Lys Arg Gly Arg Lys Lys Leu Leu Tyr
 545 550 555 560
 Ile Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu
 565 570 575
 Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Gly Gly Cys Glu
 580 585 590
 Leu Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln
 595 600 605
 Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu
 610 615 620
 Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly
 625 630 635 640
 Lys Pro Gln Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu
 645 650 655
 Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly
 660 665 670
 Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser

KR15P0802pct_seq.txt
 675 680 685
 Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro
 690 695 700
 Pro Arg
 705