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<170> PatentIn version 3.3

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Val Asp Phe Asn Ser Lys Gln Lys Glu Arg Lys Pro Lys Ser Ser Ala
485 490 495

His Tyr Tyr Lys Gln Ile Ile Arg Glu Asn Gly Phe Ser Leu Lys Glu
500 505 510

Ser Thr Pro Asp Val Gln Gly Gln Phe Pro Cys Asp Phe Ser Trp Gly
515 520 525

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Val Thr Glu Ser Val Leu Lys Pro Glu Ser Val Ala Ser Ser Pro Gln
530 535 540

Phe Ser Asp Pro His Leu Tyr Val Trp Asn Ala Thr Gly Asn Arg Leu
545 550 555 560

Leu His Arg Val Glu Gly Val Arg Leu Lys Thr Arg Pro Ala Gln Cys
565 570 575

Thr Asp Phe Val Asn Ile Lys Lys Gln Leu Glu Met Leu Ala Arg Met
580 585 590

Lys Val Thr His Tyr Arg Phe Ala Leu Asp Trp Ala Ser Val Leu Pro
595 600 605

Thr Gly Asn Leu Ser Ala Val Asn Arg Gln Ala Leu Arg Tyr Tyr Arg
610 615 620

Cys Val Val Ser Glu Gly Leu Lys Leu Gly Ile Ser Ala Met Val Thr
625 630 635 640

Leu Tyr Tyr Pro Thr His Ala His Leu Gly Leu Pro Glu Pro Leu Leu
645 650 655

His Ala Asp Gly Trp Leu Asn Pro Ser Thr Ala Glu Ala Phe Gln Ala
660 665 670

Tyr Ala Gly Leu Cys Phe Gln Glu Leu Gly Asp Leu Val Lys Leu Trp
675 680 685

Ile Thr Ile Asn Glu Pro Asn Arg Leu Ser Asp Ile Tyr Asn Arg Ser
690 695 700

Gly Asn Asp Thr Tyr Gly Ala Ala His Asn Leu Leu Val Ala His Ala
705 710 715 720

Leu Ala Trp Arg Leu Tyr Asp Arg Gln Phe Arg Pro Ser Gln Arg Gly
725 730 735

Ala Val Ser Leu Ser Leu His Ala Asp Trp Ala Glu Pro Ala Asn Pro
740 745 750

Tyr Ala Asp Ser His Trp Arg Ala Ala Glu Arg Phe Leu Gln Phe Glu
755 760 765

Ile Ala Trp Phe Ala Glu Pro Leu Phe Lys Thr Gly Asp Tyr Pro Ala
770 775 780

PhoenixTemp63617.tmp.txt

Ala Met Arg Glu Tyr Ile Ala Ser Lys His Arg Arg Gly Leu Ser Ser
785 790 795 800

Ser Ala Leu Pro Arg Leu Thr Glu Ala Glu Arg Arg Leu Leu Lys Gly
805 810 815

Thr Val Asp Phe Cys Ala Leu Asn His Phe Thr Thr Arg Phe Val Met
820 825 830

His Glu Gln Leu Ala Gly Ser Arg Tyr Asp Ser Asp Arg Asp Ile Gln
835 840 845

Phe Leu Gln Asp Ile Thr Arg Leu Ser Ser Pro Thr Arg Leu Ala Val
850 855 860

Ile Pro Trp Gly Val Arg Lys Leu Leu Arg Trp Val Arg Arg Asn Tyr
865 870 875 880

Gly Asp Met Asp Ile Tyr Ile Thr Ala Ser Gly Ile Asp Asp Gln Ala
885 890 895

Leu Glu Asp Asp Arg Leu Arg Lys Tyr Tyr Leu Gly Lys Tyr Leu Gln
900 905 910

Glu Val Leu Lys Ala Tyr Leu Ile Asp Lys Val Arg Ile Lys Gly Tyr
915 920 925

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

Phe Thr Ser Asp Phe Lys Ala Lys Ser Ser Ile Gln Phe Tyr Asn Lys
945 950 955 960

Val Ile Ser Ser Arg Gly Phe Pro Phe Glu Asn Ser Ser Ser Arg Cys
965 970 975

Ser Gln Thr Gln Glu Asn Thr Glu Cys Thr Val Cys Leu Phe Leu Val
980 985 990

Gln Lys Lys Pro Leu Ile Phe Leu Gly Cys Cys Phe Phe Ser Thr Leu
995 1000 1005

Val Leu Leu Leu Ser Ile Ala Ile Phe Gln Arg Gln Lys Arg Arg
1010 1015 1020

Lys Phe Trp Lys Ala Lys Asn Leu Gln His Ile Pro Leu Lys Lys
1025 1030 1035

Gly Lys Arg Val Val Ser
1040

<210> 5
<211> 449
<212> PRT
<213> Homo Sapiens

<400> 5

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

Tyr Gln Thr Glu Gly Gly Trp Gln Gln His Gly Lys Gly Ala Ser Ile
20 25 30

Trp Asp Thr Phe Thr His His Pro Leu Ala Pro Pro Gly Asp Ser Arg
35 40 45

Asn Ala Ser Leu Pro Leu Gly Ala Pro Ser Pro Leu Gln Pro Ala Thr
50 55 60

Gly Asp Val Ala Ser Asp Ser Tyr Asn Asn Val Phe Arg Asp Thr Glu
65 70 75 80

Ala Leu Arg Glu Leu Gly Val Thr His Tyr Arg Phe Ser Ile Ser Trp
85 90 95

Ala Arg Val Leu Pro Asn Gly Ser Ala Gly Val Pro Asn Arg Glu Gly
100 105 110

Leu Arg Tyr Tyr Arg Arg Leu Leu Glu Arg Leu Arg Glu Leu Gly Val
115 120 125

Gln Pro Val Val Thr Leu Tyr His Trp Asp Leu Pro Gln Arg Leu Gln
130 135 140

Asp Ala Tyr Gly Gly Trp Ala Asn Arg Ala Leu Ala Asp His Phe Arg
145 150 155 160

Asp Tyr Ala Glu Leu Cys Phe Arg His Phe Gly Gly Gln Val Lys Tyr
165 170 175

Trp Ile Thr Ile Asp Asn Pro Tyr Val Val Ala Trp His Gly Tyr Ala
180 185 190

Thr Gly Arg Leu Ala Pro Gly Ile Arg Gly Ser Pro Arg Leu Gly Tyr
195 200 205

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Leu Val Ala His Asn Leu Leu Leu Ala His Ala Lys Val Trp His Leu
210 215 220

Tyr Asn Thr Ser Phe Arg Pro Thr Gln Gly Gly Gln Val Ser Ile Ala
225 230 235 240

Leu Ser Ser His Trp Ile Asn Pro Arg Arg Met Thr Asp His Ser Ile
245 250 255

Lys Glu Cys Gln Lys Ser Leu Asp Phe Val Leu Gly Trp Phe Ala Lys
260 265 270

Pro Val Phe Ile Asp Gly Asp Tyr Pro Glu Ser Met Lys Asn Asn Leu
275 280 285

Ser Ser Ile Leu Pro Asp Phe Thr Glu Ser Glu Lys Lys Phe Ile Lys
290 295 300

Gly Thr Ala Asp Phe Phe Ala Leu Cys Phe Gly Pro Thr Leu Ser Phe
305 310 315 320

Gln Leu Leu Asp Pro His Met Lys Phe Arg Gln Leu Glu Ser Pro Asn
325 330 335

Leu Arg Gln Leu Leu Ser Trp Ile Asp Leu Glu Phe Asn His Pro Gln
340 345 350

Ile Phe Ile Val Glu Asn Gly Trp Phe Val Ser Gly Thr Thr Lys Arg
355 360 365

Asp Asp Ala Lys Tyr Met Tyr Tyr Leu Lys Lys Phe Ile Met Glu Thr
370 375 380

Leu Lys Ala Ile Lys Leu Asp Gly Val Asp Val Ile Gly Tyr Thr Ala
385 390 395 400

Trp Ser Leu Met Asp Gly Phe Glu Trp His Arg Gly Tyr Ser Ile Arg
405 410 415

Arg Gly Leu Phe Tyr Val Asp Phe Leu Ser Gln Asp Lys Met Leu Leu
420 425 430

Pro Lys Ser Ser Ala Leu Phe Tyr Gln Lys Leu Ile Glu Lys Asn Gly
435 440 445

Phe

PhoenixTemp63617.tmp.txt

<210> 6
 <211> 437
 <212> PRT
 <213> Homo Sapiens

<400> 6

Gly Thr Phe Pro Cys Asp Phe Ala Trp Gly Val Val Asp Asn Tyr Ile
 1 5 10 15

Gln Val Asp Thr Thr Leu Ser Gln Phe Thr Asp Leu Asn Val Tyr Leu
 20 25 30

Trp Asp Val His His Ser Lys Arg Leu Ile Lys Val Asp Gly Val Val
 35 40 45

Thr Lys Lys Arg Lys Ser Tyr Cys Val Asp Phe Ala Ala Ile Gln Pro
 50 55 60

Gln Ile Ala Leu Leu Gln Glu Met His Val Thr His Phe Arg Phe Ser
 65 70 75 80

Leu Asp Trp Ala Leu Ile Leu Pro Leu Gly Asn Gln Ser Gln Val Asn
 85 90 95

His Thr Ile Leu Gln Tyr Tyr Arg Cys Met Ala Ser Glu Leu Val Arg
 100 105 110

Val Asn Ile Thr Pro Val Val Ala Leu Trp Gln Pro Met Ala Pro Asn
 115 120 125

Gln Gly Leu Pro Arg Leu Leu Ala Arg Gln Gly Ala Trp Glu Asn Pro
 130 135 140

Tyr Thr Ala Leu Ala Phe Ala Glu Tyr Ala Arg Leu Cys Phe Gln Glu
 145 150 155 160

Leu Gly His His Val Lys Leu Trp Ile Thr Met Asn Glu Pro Tyr Thr
 165 170 175

Arg Asn Met Thr Tyr Ser Ala Gly His Asn Leu Leu Lys Ala His Ala
 180 185 190

Leu Ala Trp His Val Tyr Asn Glu Lys Phe Arg His Ala Gln Asn Gly
 195 200 205

Lys Ile Ser Ile Ala Leu Gln Ala Asp Trp Ile Glu Pro Ala Cys Pro
 210 215 220

PhoenixTemp63617.tmp.txt

Phe Ser Gln Lys Asp Lys Glu Val Ala Glu Arg Val Leu Glu Phe Asp
225 230 235 240

Ile Gly Trp Leu Ala Glu Pro Ile Phe Gly Ser Gly Asp Tyr Pro Trp
245 250 255

Val Met Arg Asp Trp Leu Asn Gln Arg Asn Asn Phe Leu Leu Pro Tyr
260 265 270

Phe Thr Glu Asp Glu Lys Lys Leu Ile Gln Gly Thr Phe Asp Phe Leu
275 280 285

Ala Leu Ser His Tyr Thr Thr Ile Leu Val Asp Ser Glu Lys Glu Asp
290 295 300

Pro Ile Lys Tyr Asn Asp Tyr Leu Glu Val Gln Glu Met Thr Asp Ile
305 310 315 320

Thr Trp Leu Asn Ser Pro Ser Gln Val Ala Val Val Pro Trp Gly Leu
325 330 335

Arg Lys Val Leu Asn Trp Leu Lys Phe Lys Tyr Gly Asp Leu Pro Met
340 345 350

Tyr Ile Ile Ser Asn Gly Ile Asp Asp Gly Leu His Ala Glu Asp Asp
355 360 365

Gln Leu Arg Val Tyr Tyr Met Gln Asn Tyr Ile Asn Glu Ala Leu Lys
370 375 380

Ala His Ile Leu Asp Gly Ile Asn Leu Cys Gly Tyr Phe Ala Tyr Ser
385 390 395 400

Phe Asn Asp Arg Thr Ala Pro Arg Phe Gly Leu Tyr Arg Tyr Ala Ala
405 410 415

Asp Gln Phe Glu Pro Lys Ala Ser Met Lys His Tyr Arg Lys Ile Ile
420 425 430

Asp Ser Asn Gly Phe
435

<210> 7
<211> 949
<212> PRT
<213> Homo Sapiens

<400> 7

Glu Pro Gly Asp Gly Ala Gln Thr Trp Ala Arg Phe Ser Arg Pro Pro

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

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260

265

270

Arg Arg Met Thr Asp His Ser Ile Lys Glu Cys Gln Lys Ser Leu Asp
 275 280 285

Phe Val Leu Gly Trp Phe Ala Lys Pro Val Phe Ile Asp Gly Asp Tyr
 290 295 300

Pro Glu Ser Met Lys Asn Asn Leu Ser Ser Ile Leu Pro Asp Phe Thr
 305 310 315 320

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

Cys Phe Gly Pro Thr Leu Ser Phe Gln Leu Leu Asp Pro His Met Lys
 340 345 350

Phe Arg Gln Leu Glu Ser Pro Asn Leu Arg Gln Leu Leu Ser Trp Ile
 355 360 365

Asp Leu Glu Phe Asn His Pro Gln Ile Phe Ile Val Glu Asn Gly Trp
 370 375 380

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

Leu Lys Lys Phe Ile Met Glu Thr Leu Lys Ala Ile Lys Leu Asp Gly
 405 410 415

Val Asp Val Ile Gly Tyr Thr Ala Trp Ser Leu Met Asp Gly Phe Glu
 420 425 430

Trp His Arg Gly Tyr Ser Ile Arg Arg Gly Leu Phe Tyr Val Asp Phe
 435 440 445

Leu Ser Gln Asp Lys Met Leu Leu Pro Lys Ser Ser Ala Leu Phe Tyr
 450 455 460

Gln Lys Leu Ile Glu Lys Asn Gly Phe Pro Pro Leu Pro Glu Asn Gln
 465 470 475 480

Pro Leu Glu Gly Thr Phe Pro Cys Asp Phe Ala Trp Gly Val Val Asp
 485 490 495

Asn Tyr Ile Gln Val Asp Thr Thr Leu Ser Gln Phe Thr Asp Leu Asn
 500 505 510

Val Tyr Leu Trp Asp Val His His Ser Lys Arg Leu Ile Lys Val Asp

515

520

525

Gly Val Val Thr Lys Lys Arg Lys Ser Tyr Cys Val Asp Phe Ala Ala
530 535 540

Ile Gln Pro Gln Ile Ala Leu Leu Gln Glu Met His Val Thr His Phe
545 550 555 560

Arg Phe Ser Leu Asp Trp Ala Leu Ile Leu Pro Leu Gly Asn Gln Ser
565 570 575

Gln Val Asn His Thr Ile Leu Gln Tyr Tyr Arg Cys Met Ala Ser Glu
580 585 590

Leu Val Arg Val Asn Ile Thr Pro Val Val Ala Leu Trp Gln Pro Met
595 600 605

Ala Pro Asn Gln Gly Leu Pro Arg Leu Leu Ala Arg Gln Gly Ala Trp
610 615 620

Glu Asn Pro Tyr Thr Ala Leu Ala Phe Ala Glu Tyr Ala Arg Leu Cys
625 630 635 640

Phe Gln Glu Leu Gly His His Val Lys Leu Trp Ile Thr Met Asn Glu
645 650 655

Pro Tyr Thr Arg Asn Met Thr Tyr Ser Ala Gly His Asn Leu Leu Lys
660 665 670

Ala His Ala Leu Ala Trp His Val Tyr Asn Glu Lys Phe Arg His Ala
675 680 685

Gln Asn Gly Lys Ile Ser Ile Ala Leu Gln Ala Asp Trp Ile Glu Pro
690 695 700

Ala Cys Pro Phe Ser Gln Lys Asp Lys Glu Val Ala Glu Arg Val Leu
705 710 715 720

Glu Phe Asp Ile Gly Trp Leu Ala Glu Pro Ile Phe Gly Ser Gly Asp
725 730 735

Tyr Pro Trp Val Met Arg Asp Trp Leu Asn Gln Arg Asn Asn Phe Leu
740 745 750

Leu Pro Tyr Phe Thr Glu Asp Glu Lys Lys Leu Ile Gln Gly Thr Phe
755 760 765

Asp Phe Leu Ala Leu Ser His Tyr Thr Thr Ile Leu Val Asp Ser Glu

770

775

780

Lys Glu Asp Pro Ile Lys Tyr Asn Asp Tyr Leu Glu Val Gln Glu Met
 785 790 795 800

Thr Asp Ile Thr Trp Leu Asn Ser Pro Ser Gln Val Ala Val Val Pro
 805 810 815

Trp Gly Leu Arg Lys Val Leu Asn Trp Leu Lys Phe Lys Tyr Gly Asp
 820 825 830

Leu Pro Met Tyr Ile Ile Ser Asn Gly Ile Asp Asp Gly Leu His Ala
 835 840 845

Glu Asp Asp Gln Leu Arg Val Tyr Tyr Met Gln Asn Tyr Ile Asn Glu
 850 855 860

Ala Leu Lys Ala His Ile Leu Asp Gly Ile Asn Leu Cys Gly Tyr Phe
 865 870 875 880

Ala Tyr Ser Phe Asn Asp Arg Thr Ala Pro Arg Phe Gly Leu Tyr Arg
 885 890 895

Tyr Ala Ala Asp Gln Phe Glu Pro Lys Ala Ser Met Lys His Tyr Arg
 900 905 910

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

Phe Cys Pro Glu Glu Phe Thr Val Cys Thr Glu Cys Ser Phe Phe His
 930 935 940

Thr Arg Lys Ser Leu
 945

<210> 8
 <211> 33
 <212> PRT
 <213> Homo Sapiens

<400> 8

Met Pro Ala Ser Ala Pro Pro Arg Arg Pro Arg Pro Pro Pro Ser
 1 5 10 15

Leu Ser Leu Leu Leu Val Leu Leu Gly Leu Gly Gly Arg Arg Leu Arg
 20 25 30

Ala

<210> 9
 <211> 25
 <212> PRT
 <213> Homo Sapiens

<400> 9

Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr
 1 5 10 15

Gly Thr Arg Cys Arg Arg Leu Arg Ala
 20 25

<210> 10
 <211> 45
 <212> DNA
 <213> Homo Sapiens

<400> 10
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<210> 11
 <211> 15
 <212> PRT
 <213> Homo Sapiens

<400> 11

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 1 5 10 15

<210> 12
 <211> 5
 <212> PRT
 <213> Homo Sapiens

<400> 12

Gly Gly Gly Gly Ser
 1 5

<210> 13
 <211> 1
 <212> PRT
 <213> Homo Sapiens

<400> 13

Gly
 1

<210> 14
 <211> 2
 <212> PRT
 <213> Homo Sapiens

<400> 14

Gly Gly
1

<210> 15
<211> 2
<212> PRT
<213> Homo Sapiens

<400> 15

Gly Ser
1

<210> 16
<211> 3
<212> PRT
<213> Homo Sapiens

<400> 16

Gly Gly Ser
1

<210> 17
<211> 1
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<400> 17

Ala
1

<210> 18
<211> 2
<212> PRT
<213> Homo Sapiens

<400> 18

Ala Ala
1

<210> 19
<211> 1228
<212> PRT
<213> Homo Sapiens

<400> 19

Met Pro Ala Ser Ala Pro Pro Arg Arg Pro Arg Pro Pro Pro Ser
1 5 10 15

Leu Ser Leu Leu Leu Val Leu Leu Gly Leu Gly Gly Arg Arg Leu Arg
20 25 30

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

PhoenixTemp63617.tmp.txt

Thr	Gln	Gly	Gly	Gln	Val	Ser	Ile	Ala	Leu	Ser	Ser	His	Trp	Ile	Asn
290						295					300				
Pro	Arg	Arg	Met	Thr	Asp	His	Ser	Ile	Lys	Glu	Cys	Gln	Lys	Ser	Leu
305					310					315					320
Asp	Phe	Val	Leu	Gly	Trp	Phe	Ala	Lys	Pro	Val	Phe	Ile	Asp	Gly	Asp
				325					330					335	
Tyr	Pro	Glu	Ser	Met	Lys	Asn	Asn	Leu	Ser	Ser	Ile	Leu	Pro	Asp	Phe
			340					345					350		
Thr	Glu	Ser	Glu	Lys	Lys	Phe	Ile	Lys	Gly	Thr	Ala	Asp	Phe	Phe	Ala
		355					360					365			
Leu	Cys	Phe	Gly	Pro	Thr	Leu	Ser	Phe	Gln	Leu	Leu	Asp	Pro	His	Met
	370					375					380				
Lys	Phe	Arg	Gln	Leu	Glu	Ser	Pro	Asn	Leu	Arg	Gln	Leu	Leu	Ser	Trp
385					390					395					400
Ile	Asp	Leu	Glu	Phe	Asn	His	Pro	Gln	Ile	Phe	Ile	Val	Glu	Asn	Gly
				405					410					415	
Trp	Phe	Val	Ser	Gly	Thr	Thr	Lys	Arg	Asp	Asp	Ala	Lys	Tyr	Met	Tyr
			420					425					430		
Tyr	Leu	Lys	Lys	Phe	Ile	Met	Glu	Thr	Leu	Lys	Ala	Ile	Lys	Leu	Asp
		435					440					445			
Gly	Val	Asp	Val	Ile	Gly	Tyr	Thr	Ala	Trp	Ser	Leu	Met	Asp	Gly	Phe
	450					455					460				
Glu	Trp	His	Arg	Gly	Tyr	Ser	Ile	Arg	Arg	Gly	Leu	Phe	Tyr	Val	Asp
465					470					475					480
Phe	Leu	Ser	Gln	Asp	Lys	Met	Leu	Leu	Pro	Lys	Ser	Ser	Ala	Leu	Phe
				485					490					495	
Tyr	Gln	Lys	Leu	Ile	Glu	Lys	Asn	Gly	Phe	Pro	Pro	Leu	Pro	Glu	Asn
			500					505					510		
Gln	Pro	Leu	Glu	Gly	Thr	Phe	Pro	Cys	Asp	Phe	Ala	Trp	Gly	Val	Val
		515					520					525			
Asp	Asn	Tyr	Ile	Gln	Val	Asp	Thr	Thr	Leu	Ser	Gln	Phe	Thr	Asp	Leu
	530					535					540				

PhoenixTemp63617.tmp.txt

Asn Val Tyr Leu Trp Asp Val His His Ser Lys Arg Leu Ile Lys Val
545 550 555 560

Asp Gly Val Val Thr Lys Lys Arg Lys Ser Tyr Cys Val Asp Phe Ala
565 570 575

Ala Ile Gln Pro Gln Ile Ala Leu Leu Gln Glu Met His Val Thr His
580 585 590

Phe Arg Phe Ser Leu Asp Trp Ala Leu Ile Leu Pro Leu Gly Asn Gln
595 600 605

Ser Gln Val Asn His Thr Ile Leu Gln Tyr Tyr Arg Cys Met Ala Ser
610 615 620

Glu Leu Val Arg Val Asn Ile Thr Pro Val Val Ala Leu Trp Gln Pro
625 630 635 640

Met Ala Pro Asn Gln Gly Leu Pro Arg Leu Leu Ala Arg Gln Gly Ala
645 650 655

Trp Glu Asn Pro Tyr Thr Ala Leu Ala Phe Ala Glu Tyr Ala Arg Leu
660 665 670

Cys Phe Gln Glu Leu Gly His His Val Lys Leu Trp Ile Thr Met Asn
675 680 685

Glu Pro Tyr Thr Arg Asn Met Thr Tyr Ser Ala Gly His Asn Leu Leu
690 695 700

Lys Ala His Ala Leu Ala Trp His Val Tyr Asn Glu Lys Phe Arg His
705 710 715 720

Ala Gln Asn Gly Lys Ile Ser Ile Ala Leu Gln Ala Asp Trp Ile Glu
725 730 735

Pro Ala Cys Pro Phe Ser Gln Lys Asp Lys Glu Val Ala Glu Arg Val
740 745 750

Leu Glu Phe Asp Ile Gly Trp Leu Ala Glu Pro Ile Phe Gly Ser Gly
755 760 765

Asp Tyr Pro Trp Val Met Arg Asp Trp Leu Asn Gln Arg Asn Asn Phe
770 775 780

Leu Leu Pro Tyr Phe Thr Glu Asp Glu Lys Lys Leu Ile Gln Gly Thr
785 790 795 800

PhoenixTemp63617.tmp.txt

Phe Asp Phe Leu Ala Leu Ser His Tyr Thr Thr Ile Leu Val Asp Ser
 805 810 815
 Glu Lys Glu Asp Pro Ile Lys Tyr Asn Asp Tyr Leu Glu Val Gln Glu
 820 825 830
 Met Thr Asp Ile Thr Trp Leu Asn Ser Pro Ser Gln Val Ala Val Val
 835 840 845
 Pro Trp Gly Leu Arg Lys Val Leu Asn Trp Leu Lys Phe Lys Tyr Gly
 850 855 860
 Asp Leu Pro Met Tyr Ile Ile Ser Asn Gly Ile Asp Asp Gly Leu His
 865 870 875 880
 Ala Glu Asp Asp Gln Leu Arg Val Tyr Tyr Met Gln Asn Tyr Ile Asn
 885 890 895
 Glu Ala Leu Lys Ala His Ile Leu Asp Gly Ile Asn Leu Cys Gly Tyr
 900 905 910
 Phe Ala Tyr Ser Phe Asn Asp Arg Thr Ala Pro Arg Phe Gly Leu Tyr
 915 920 925
 Arg Tyr Ala Ala Asp Gln Phe Glu Pro Lys Ala Ser Met Lys His Tyr
 930 935 940
 Arg Lys Ile Ile Asp Ser Asn Gly Phe Pro Gly Pro Glu Thr Leu Glu
 945 950 955 960
 Arg Phe Cys Pro Glu Glu Phe Thr Val Cys Thr Glu Cys Ser Phe Phe
 965 970 975
 His Thr Arg Lys Ser Leu Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
 980 985 990
 Gly Ser Gly Gly Gly Gly Ser Leu Lys Tyr Pro Asn Ala Ser Pro Leu
 995 1000 1005
 Leu Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala Thr
 1010 1015 1020
 Ala Arg Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His Val
 1025 1030 1035
 Asp Gly Ala Pro His Gln Thr Ile Tyr Ser Ala Leu Met Ile Arg
 1040 1045 1050

PhoenixTemp63617.tmp.txt

Ser Glu Asp Ala Gly Phe Val Val Ile Thr Gly Val Met Ser Arg
1055 1060 1065

Arg Tyr Leu Cys Met Asp Phe Arg Gly Asn Ile Phe Gly Ser His
1070 1075 1080

Tyr Phe Asp Pro Glu Asn Cys Arg Phe Gln His Gln Thr Leu Glu
1085 1090 1095

Asn Gly Tyr Asp Val Tyr His Ser Pro Gln Tyr His Phe Leu Val
1100 1105 1110

Ser Leu Gly Arg Ala Lys Arg Ala Phe Leu Pro Gly Met Asn Pro
1115 1120 1125

Pro Pro Tyr Ser Gln Phe Leu Ser Arg Arg Asn Glu Ile Pro Leu
1130 1135 1140

Ile His Phe Asn Thr Pro Ile Pro Arg Arg His Thr Gln Ser Ala
1145 1150 1155

Glu Asp Asp Ser Glu Arg Asp Pro Leu Asn Val Leu Lys Pro Arg
1160 1165 1170

Ala Arg Met Thr Pro Ala Pro Ala Ser Cys Ser Gln Glu Leu Pro
1175 1180 1185

Ser Ala Glu Asp Asn Ser Pro Met Ala Ser Asp Pro Leu Gly Val
1190 1195 1200

Val Arg Gly Gly Arg Val Asn Thr His Ala Gly Gly Thr Gly Pro
1205 1210 1215

Glu Gly Cys Arg Pro Phe Ala Lys Phe Ile
1220 1225

<210> 20
<211> 1220
<212> PRT
<213> Homo Sapiens

<400> 20

Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr
1 5 10 15

Gly Leu Gly Gly Arg Arg Leu Arg Ala Glu Pro Gly Asp Gly Ala Gln
20 25 30

PhoenixTemp63617.tmp.txt

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

PhoenixTemp63617.tmp.txt

Ala Leu Ser Ser His Trp Ile Asn Pro Arg Arg Met Thr Asp His Ser
 290 295 300

Ile Lys Glu Cys Gln Lys Ser Leu Asp Phe Val Leu Gly Trp Phe Ala
 305 310 315 320

Lys Pro Val Phe Ile Asp Gly Asp Tyr Pro Glu Ser Met Lys Asn Asn
 325 330 335

Leu Ser Ser Ile Leu Pro Asp Phe Thr Glu Ser Glu Lys Lys Phe Ile
 340 345 350

Lys Gly Thr Ala Asp Phe Phe Ala Leu Cys Phe Gly Pro Thr Leu Ser
 355 360 365

Phe Gln Leu Leu Asp Pro His Met Lys Phe Arg Gln Leu Glu Ser Pro
 370 375 380

Asn Leu Arg Gln Leu Leu Ser Trp Ile Asp Leu Glu Phe Asn His Pro
 385 390 395 400

Gln Ile Phe Ile Val Glu Asn Gly Trp Phe Val Ser Gly Thr Thr Lys
 405 410 415

Arg Asp Asp Ala Lys Tyr Met Tyr Tyr Leu Lys Lys Phe Ile Met Glu
 420 425 430

Thr Leu Lys Ala Ile Lys Leu Asp Gly Val Asp Val Ile Gly Tyr Thr
 435 440 445

Ala Trp Ser Leu Met Asp Gly Phe Glu Trp His Arg Gly Tyr Ser Ile
 450 455 460

Arg Arg Gly Leu Phe Tyr Val Asp Phe Leu Ser Gln Asp Lys Met Leu
 465 470 475 480

Leu Pro Lys Ser Ser Ala Leu Phe Tyr Gln Lys Leu Ile Glu Lys Asn
 485 490 495

Gly Phe Pro Pro Leu Pro Glu Asn Gln Pro Leu Glu Gly Thr Phe Pro
 500 505 510

Cys Asp Phe Ala Trp Gly Val Val Asp Asn Tyr Ile Gln Val Asp Thr
 515 520 525

Thr Leu Ser Gln Phe Thr Asp Leu Asn Val Tyr Leu Trp Asp Val His
 530 535 540

PhoenixTemp63617.tmp.txt

His Ser Lys Arg Leu Ile Lys Val Asp Gly Val Val Thr Lys Lys Arg
 545 550 555 560

Lys Ser Tyr Cys Val Asp Phe Ala Ala Ile Gln Pro Gln Ile Ala Leu
 565 570 575

Leu Gln Glu Met His Val Thr His Phe Arg Phe Ser Leu Asp Trp Ala
 580 585 590

Leu Ile Leu Pro Leu Gly Asn Gln Ser Gln Val Asn His Thr Ile Leu
 595 600 605

Gln Tyr Tyr Arg Cys Met Ala Ser Glu Leu Val Arg Val Asn Ile Thr
 610 615 620

Pro Val Val Ala Leu Trp Gln Pro Met Ala Pro Asn Gln Gly Leu Pro
 625 630 635

Arg Leu Leu Ala Arg Gln Gly Ala Trp Glu Asn Pro Tyr Thr Ala Leu
 645 650 655

Ala Phe Ala Glu Tyr Ala Arg Leu Cys Phe Gln Glu Leu Gly His His
 660 665 670

Val Lys Leu Trp Ile Thr Met Asn Glu Pro Tyr Thr Arg Asn Met Thr
 675 680 685

Tyr Ser Ala Gly His Asn Leu Leu Lys Ala His Ala Leu Ala Trp His
 690 695 700

Val Tyr Asn Glu Lys Phe Arg His Ala Gln Asn Gly Lys Ile Ser Ile
 705 710 715 720

Ala Leu Gln Ala Asp Trp Ile Glu Pro Ala Cys Pro Phe Ser Gln Lys
 725 730 735

Asp Lys Glu Val Ala Glu Arg Val Leu Glu Phe Asp Ile Gly Trp Leu
 740 745 750

Ala Glu Pro Ile Phe Gly Ser Gly Asp Tyr Pro Trp Val Met Arg Asp
 755 760 765

Trp Leu Asn Gln Arg Asn Asn Phe Leu Leu Pro Tyr Phe Thr Glu Asp
 770 775 780

Glu Lys Lys Leu Ile Gln Gly Thr Phe Asp Phe Leu Ala Leu Ser His
 785 790 795 800

PhoenixTemp63617.tmp.txt

Tyr Thr Thr Ile Leu Val Asp Ser Glu Lys Glu Asp Pro Ile Lys Tyr
 805 810 815
 Asn Asp Tyr Leu Glu Val Gln Glu Met Thr Asp Ile Thr Trp Leu Asn
 820 825 830
 Ser Pro Ser Gln Val Ala Val Val Pro Trp Gly Leu Arg Lys Val Leu
 835 840 845
 Asn Trp Leu Lys Phe Lys Tyr Gly Asp Leu Pro Met Tyr Ile Ile Ser
 850 855 860
 Asn Gly Ile Asp Asp Gly Leu His Ala Glu Asp Asp Gln Leu Arg Val
 865 870 875 880
 Tyr Tyr Met Gln Asn Tyr Ile Asn Glu Ala Leu Lys Ala His Ile Leu
 885 890 895
 Asp Gly Ile Asn Leu Cys Gly Tyr Phe Ala Tyr Ser Phe Asn Asp Arg
 900 905 910
 Thr Ala Pro Arg Phe Gly Leu Tyr Arg Tyr Ala Ala Asp Gln Phe Glu
 915 920 925
 Pro Lys Ala Ser Met Lys His Tyr Arg Lys Ile Ile Asp Ser Asn Gly
 930 935 940
 Phe Pro Gly Pro Glu Thr Leu Glu Arg Phe Cys Pro Glu Glu Phe Thr
 945 950 955 960
 Val Cys Thr Glu Cys Ser Phe Phe His Thr Arg Lys Ser Leu Gly Ser
 965 970 975
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Leu
 980 985 990
 Lys Tyr Pro Asn Ala Ser Pro Leu Leu Gly Ser Ser Trp Gly Gly Leu
 995 1000 1005
 Ile His Leu Tyr Thr Ala Thr Ala Arg Asn Ser Tyr His Leu Gln
 1010 1015 1020
 Ile His Lys Asn Gly His Val Asp Gly Ala Pro His Gln Thr Ile
 1025 1030 1035
 Tyr Ser Ala Leu Met Ile Arg Ser Glu Asp Ala Gly Phe Val Val
 1040 1045 1050

PhoenixTemp63617.tmp.txt

Ile Thr Gly Val Met Ser Arg Arg Tyr Leu Cys Met Asp Phe Arg
1055 1060 1065

Gly Asn Ile Phe Gly Ser His Tyr Phe Asp Pro Glu Asn Cys Arg
1070 1075 1080

Phe Gln His Gln Thr Leu Glu Asn Gly Tyr Asp Val Tyr His Ser
1085 1090 1095

Pro Gln Tyr His Phe Leu Val Ser Leu Gly Arg Ala Lys Arg Ala
1100 1105 1110

Phe Leu Pro Gly Met Asn Pro Pro Pro Tyr Ser Gln Phe Leu Ser
1115 1120 1125

Arg Arg Asn Glu Ile Pro Leu Ile His Phe Asn Thr Pro Ile Pro
1130 1135 1140

Arg Arg His Thr Gln Ser Ala Glu Asp Asp Ser Glu Arg Asp Pro
1145 1150 1155

Leu Asn Val Leu Lys Pro Arg Ala Arg Met Thr Pro Ala Pro Ala
1160 1165 1170

Ser Cys Ser Gln Glu Leu Pro Ser Ala Glu Asp Asn Ser Pro Met
1175 1180 1185

Ala Ser Asp Pro Leu Gly Val Val Arg Gly Gly Arg Val Asn Thr
1190 1195 1200

His Ala Gly Gly Thr Gly Pro Glu Gly Cys Arg Pro Phe Ala Lys
1205 1210 1215

Phe Ile
1220

<210> 21
<211> 762
<212> PRT
<213> Homo Sapiens

<400> 21

Met Pro Ala Ser Ala Pro Pro Arg Arg Pro Arg Pro Pro Pro Ser
1 5 10 15

Leu Ser Leu Leu Leu Val Leu Leu Gly Leu Gly Gly Arg Arg Leu Arg
20 25 30

Ala Glu Pro Gly Asp Gly Ala Gln Thr Trp Ala Arg Phe Ser Arg Pro

35

40

45

Pro Ala Pro Glu Ala Ala Gly Leu Phe Gln Gly Thr Phe Pro Asp Gly
50 55 60

Phe Leu Trp Ala Val Gly Ser Ala Ala Tyr Gln Thr Glu Gly Gly Trp
65 70 75 80

Gln Gln His Gly Lys Gly Ala Ser Ile Trp Asp Thr Phe Thr His His
85 90 95

Pro Leu Ala Pro Pro Gly Asp Ser Arg Asn Ala Ser Leu Pro Leu Gly
100 105 110

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

Tyr Asn Asn Val Phe Arg Asp Thr Glu Ala Leu Arg Glu Leu Gly Val
130 135 140

Thr His Tyr Arg Phe Ser Ile Ser Trp Ala Arg Val Leu Pro Asn Gly
145 150 155 160

Ser Ala Gly Val Pro Asn Arg Glu Gly Leu Arg Tyr Tyr Arg Arg Leu
165 170 175

Leu Glu Arg Leu Arg Glu Leu Gly Val Gln Pro Val Val Thr Leu Tyr
180 185 190

His Trp Asp Leu Pro Gln Arg Leu Gln Asp Ala Tyr Gly Gly Trp Ala
195 200 205

Asn Arg Ala Leu Ala Asp His Phe Arg Asp Tyr Ala Glu Leu Cys Phe
210 215 220

Arg His Phe Gly Gly Gln Val Lys Tyr Trp Ile Thr Ile Asp Asn Pro
225 230 235 240

Tyr Val Val Ala Trp His Gly Tyr Ala Thr Gly Arg Leu Ala Pro Gly
245 250 255

Ile Arg Gly Ser Pro Arg Leu Gly Tyr Leu Val Ala His Asn Leu Leu
260 265 270

Leu Ala His Ala Lys Val Trp His Leu Tyr Asn Thr Ser Phe Arg Pro
275 280 285

Thr Gln Gly Gly Gln Val Ser Ile Ala Leu Ser Ser His Trp Ile Asn

290

295

300

Pro Arg Arg Met Thr Asp His Ser Ile Lys Glu Cys Gln Lys Ser Leu
305 310 315 320

Asp Phe Val Leu Gly Trp Phe Ala Lys Pro Val Phe Ile Asp Gly Asp
325 330 335

Tyr Pro Glu Ser Met Lys Asn Asn Leu Ser Ser Ile Leu Pro Asp Phe
340 345 350

Thr Glu Ser Glu Lys Lys Phe Ile Lys Gly Thr Ala Asp Phe Phe Ala
355 360 365

Leu Cys Phe Gly Pro Thr Leu Ser Phe Gln Leu Leu Asp Pro His Met
370 375 380

Lys Phe Arg Gln Leu Glu Ser Pro Asn Leu Arg Gln Leu Leu Ser Trp
385 390 395 400

Ile Asp Leu Glu Phe Asn His Pro Gln Ile Phe Ile Val Glu Asn Gly
405 410 415

Trp Phe Val Ser Gly Thr Thr Lys Arg Asp Asp Ala Lys Tyr Met Tyr
420 425 430

Tyr Leu Lys Lys Phe Ile Met Glu Thr Leu Lys Ala Ile Lys Leu Asp
435 440 445

Gly Val Asp Val Ile Gly Tyr Thr Ala Trp Ser Leu Met Asp Gly Phe
450 455 460

Glu Trp His Arg Gly Tyr Ser Ile Arg Arg Gly Leu Phe Tyr Val Asp
465 470 475 480

Phe Leu Ser Gln Asp Lys Met Leu Leu Pro Lys Ser Ser Ala Leu Phe
485 490 495

Tyr Gln Lys Leu Ile Glu Lys Asn Gly Phe Pro Pro Leu Pro Glu Asn
500 505 510

Gln Pro Leu Glu Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
515 520 525

Gly Gly Gly Gly Ser Leu Lys Tyr Pro Asn Ala Ser Pro Leu Leu Gly
530 535 540

Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala Thr Ala Arg Asn

545 550 555 560

Ser Tyr His Leu Gln Ile His Lys Asn Gly His Val Asp Gly Ala Pro
565 570 575

His Gln Thr Ile Tyr Ser Ala Leu Met Ile Arg Ser Glu Asp Ala Gly
580 585 590

Phe Val Val Ile Thr Gly Val Met Ser Arg Arg Tyr Leu Cys Met Asp
595 600 605

Phe Arg Gly Asn Ile Phe Gly Ser His Tyr Phe Asp Pro Glu Asn Cys
610 615 620

Arg Phe Gln His Gln Thr Leu Glu Asn Gly Tyr Asp Val Tyr His Ser
625 630 635 640

Pro Gln Tyr His Phe Leu Val Ser Leu Gly Arg Ala Lys Arg Ala Phe
645 650 655

Leu Pro Gly Met Asn Pro Pro Pro Tyr Ser Gln Phe Leu Ser Arg Arg
660 665 670

Asn Glu Ile Pro Leu Ile His Phe Asn Thr Pro Ile Pro Arg Arg His
675 680 685

Thr Gln Ser Ala Glu Asp Asp Ser Glu Arg Asp Pro Leu Asn Val Leu
690 695 700

Lys Pro Arg Ala Arg Met Thr Pro Ala Pro Ala Ser Cys Ser Gln Glu
705 710 715 720

Leu Pro Ser Ala Glu Asp Asn Ser Pro Met Ala Ser Asp Pro Leu Gly
725 730 735

Val Val Arg Gly Gly Arg Val Asn Thr His Ala Gly Gly Thr Gly Pro
740 745 750

Glu Gly Cys Arg Pro Phe Ala Lys Phe Ile
755 760

<210> 22

$\langle 210 \rangle$	22
$\langle 211 \rangle$	752

<212> PRT

<213> Homo Sapiens

<400> 22

Met Pro Ala Ser Ala Pro Pro Arg Arg Pro Arg Pro Pro Pro Ser
1 5 10 15

PhoenixTemp63617.tmp.txt

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

PhoenixTemp63617.tmp.txt

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

PhoenixTemp63617.tmp.txt

Ala Ser Pro Leu Leu Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr
530 535 540

Thr Ala Thr Ala Arg Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly
545 550 555 560

His Val Asp Gly Ala Pro His Gln Thr Ile Tyr Ser Ala Leu Met Ile
565 570 575

Arg Ser Glu Asp Ala Gly Phe Val Val Ile Thr Gly Val Met Ser Arg
580 585 590

Arg Tyr Leu Cys Met Asp Phe Arg Gly Asn Ile Phe Gly Ser His Tyr
595 600 605

Phe Asp Pro Glu Asn Cys Arg Phe Gln His Gln Thr Leu Glu Asn Gly
610 615 620

Tyr Asp Val Tyr His Ser Pro Gln Tyr His Phe Leu Val Ser Leu Gly
625 630 635 640

Arg Ala Lys Arg Ala Phe Leu Pro Gly Met Asn Pro Pro Pro Tyr Ser
645 650 655

Gln Phe Leu Ser Arg Arg Asn Glu Ile Pro Leu Ile His Phe Asn Thr
660 665 670

Pro Ile Pro Arg Arg His Thr Gln Ser Ala Glu Asp Asp Ser Glu Arg
675 680 685

Asp Pro Leu Asn Val Leu Lys Pro Arg Ala Arg Met Thr Pro Ala Pro
690 695 700

Ala Ser Cys Ser Gln Glu Leu Pro Ser Ala Glu Asp Asn Ser Pro Met
705 710 715 720

Ala Ser Asp Pro Leu Gly Val Val Arg Gly Gly Arg Val Asn Thr His
725 730 735

Ala Gly Gly Thr Gly Pro Glu Gly Cys Arg Pro Phe Ala Lys Phe Ile
740 745 750

<210> 23
<211> 1215
<212> PRT
<213> Homo Sapiens

<400> 23

PhoenixTemp63617.tmp.txt

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

PhoenixTemp63617.tmp.txt

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Ile Arg Gly Ser Pro Arg Leu Gly Tyr Leu Val Ala His Asn Leu Leu
      260                      265                      270

Leu Ala His Ala Lys Val Trp His Leu Tyr Asn Thr Ser Phe Arg Pro
      275                      280                      285

Thr Gln Gly Gly Gln Val Ser Ile Ala Leu Ser Ser His Trp Ile Asn
      290                      295                      300

Pro Arg Arg Met Thr Asp His Ser Ile Lys Glu Cys Gln Lys Ser Leu
305                      310                      315                      320

Asp Phe Val Leu Gly Trp Phe Ala Lys Pro Val Phe Ile Asp Gly Asp
      325                      330                      335

Tyr Pro Glu Ser Met Lys Asn Asn Leu Ser Ser Ile Leu Pro Asp Phe
      340                      345                      350

Thr Glu Ser Glu Lys Lys Phe Ile Lys Gly Thr Ala Asp Phe Phe Ala
      355                      360                      365

Leu Cys Phe Gly Pro Thr Leu Ser Phe Gln Leu Leu Asp Pro His Met
      370                      375                      380

Lys Phe Arg Gln Leu Glu Ser Pro Asn Leu Arg Gln Leu Leu Ser Trp
385                      390                      395                      400

Ile Asp Leu Glu Phe Asn His Pro Gln Ile Phe Ile Val Glu Asn Gly
      405                      410                      415

Trp Phe Val Ser Gly Thr Thr Lys Arg Asp Asp Ala Lys Tyr Met Tyr
      420                      425                      430

Tyr Leu Lys Lys Phe Ile Met Glu Thr Leu Lys Ala Ile Lys Leu Asp
      435                      440                      445

Gly Val Asp Val Ile Gly Tyr Thr Ala Trp Ser Leu Met Asp Gly Phe
      450                      455                      460

Glu Trp His Arg Gly Tyr Ser Ile Arg Arg Gly Leu Phe Tyr Val Asp
465                      470                      475                      480

Phe Leu Ser Gln Asp Lys Met Leu Leu Pro Lys Ser Ser Ala Leu Phe
      485                      490                      495

Tyr Gln Lys Leu Ile Glu Lys Asn Gly Phe Pro Pro Leu Pro Glu Asn
      500                      505                      510

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PhoenixTemp63617.tmp.txt

Gln Pro Leu Glu Gly Ser Gly Thr Phe Pro Asp Gly Phe Leu Trp Ala
 515 520 525
 Val Gly Ser Ala Ala Tyr Gln Thr Glu Gly Gly Trp Gln Gln His Gly
 530 535 540
 Lys Gly Ala Ser Ile Trp Asp Thr Phe Thr His His Pro Leu Ala Pro
 545 550 555 560
 Pro Gly Asp Ser Arg Asn Ala Ser Leu Pro Leu Gly Ala Pro Ser Pro
 565 570 575
 Leu Gln Pro Ala Thr Gly Asp Val Ala Ser Asp Ser Tyr Asn Asn Val
 580 585 590
 Phe Arg Asp Thr Glu Ala Leu Arg Glu Leu Gly Val Thr His Tyr Arg
 595 600 605
 Phe Ser Ile Ser Trp Ala Arg Val Leu Pro Asn Gly Ser Ala Gly Val
 610 615 620
 Pro Asn Arg Glu Gly Leu Arg Tyr Tyr Arg Arg Leu Leu Glu Arg Leu
 625 630 635 640
 Arg Glu Leu Gly Val Gln Pro Val Val Thr Leu Tyr His Trp Asp Leu
 645 650 655
 Pro Gln Arg Leu Gln Asp Ala Tyr Gly Gly Trp Ala Asn Arg Ala Leu
 660 665 670
 Ala Asp His Phe Arg Asp Tyr Ala Glu Leu Cys Phe Arg His Phe Gly
 675 680 685
 Gly Gln Val Lys Tyr Trp Ile Thr Ile Asp Asn Pro Tyr Val Val Ala
 690 695 700
 Trp His Gly Tyr Ala Thr Gly Arg Leu Ala Pro Gly Ile Arg Gly Ser
 705 710 715 720
 Pro Arg Leu Gly Tyr Leu Val Ala His Asn Leu Leu Leu Ala His Ala
 725 730 735
 Lys Val Trp His Leu Tyr Asn Thr Ser Phe Arg Pro Thr Gln Gly Gly
 740 745 750
 Gln Val Ser Ile Ala Leu Ser Ser His Trp Ile Asn Pro Arg Arg Met
 755 760 765

PhoenixTemp63617.tmp.txt

```

Thr Asp His Ser Ile Lys Glu Cys Gln Lys Ser Leu Asp Phe Val Leu
 770                               780

Gly Trp Phe Ala Lys Pro Val Phe Ile Asp Gly Asp Tyr Pro Glu Ser
785                               795                               800

Met Lys Asn Asn Leu Ser Ser Ile Leu Pro Asp Phe Thr Glu Ser Glu
                               805                               810                               815

Lys Lys Phe Ile Lys Gly Thr Ala Asp Phe Phe Ala Leu Cys Phe Gly
                               820                               825                               830

Pro Thr Leu Ser Phe Gln Leu Leu Asp Pro His Met Lys Phe Arg Gln
                               835                               840                               845

Leu Glu Ser Pro Asn Leu Arg Gln Leu Leu Ser Trp Ile Asp Leu Glu
 850                               855                               860

Phe Asn His Pro Gln Ile Phe Ile Val Glu Asn Gly Trp Phe Val Ser
865                               870                               875                               880

Gly Thr Thr Lys Arg Asp Asp Ala Lys Tyr Met Tyr Tyr Leu Lys Lys
                               885                               890                               895

Phe Ile Met Glu Thr Leu Lys Ala Ile Lys Leu Asp Gly Val Asp Val
                               900                               905                               910

Ile Gly Tyr Thr Ala Trp Ser Leu Met Asp Gly Phe Glu Trp His Arg
 915                               920                               925

Gly Tyr Ser Ile Arg Arg Gly Leu Phe Tyr Val Asp Phe Leu Ser Gln
 930                               935                               940

Asp Lys Met Leu Leu Pro Lys Ser Ser Ala Leu Phe Tyr Gln Lys Leu
945                               950                               955                               960

Ile Glu Lys Asn Gly Phe Pro Glu Phe Gly Ser Gly Gly Gly Gly Ser
 965                               970                               975

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Leu Lys Tyr Pro Asn Ala
 980                               985                               990

Ser Pro Leu Leu Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr
 995                               1000                               1005

Ala Thr Ala Arg Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly
 1010                               1015                               1020

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PhoenixTemp63617.tmp.txt

His Val Asp Gly Ala Pro His Gln Thr Ile Tyr Ser Ala Leu Met
1025 1030 1035

Ile Arg Ser Glu Asp Ala Gly Phe Val Val Ile Thr Gly Val Met
1040 1045 1050

Ser Arg Arg Tyr Leu Cys Met Asp Phe Arg Gly Asn Ile Phe Gly
1055 1060 1065

Ser His Tyr Phe Asp Pro Glu Asn Cys Arg Phe Gln His Gln Thr
1070 1075 1080

Leu Glu Asn Gly Tyr Asp Val Tyr His Ser Pro Gln Tyr His Phe
1085 1090 1095

Leu Val Ser Leu Gly Arg Ala Lys Arg Ala Phe Leu Pro Gly Met
1100 1105 1110

Asn Pro Pro Pro Tyr Ser Gln Phe Leu Ser Arg Arg Asn Glu Ile
1115 1120 1125

Pro Leu Ile His Phe Asn Thr Pro Ile Pro Arg Arg His Thr Gln
1130 1135 1140

Ser Ala Glu Asp Asp Ser Glu Arg Asp Pro Leu Asn Val Leu Lys
1145 1150 1155

Pro Arg Ala Arg Met Thr Pro Ala Pro Ala Ser Cys Ser Gln Glu
1160 1165 1170

Leu Pro Ser Ala Glu Asp Asn Ser Pro Met Ala Ser Asp Pro Leu
1175 1180 1185

Gly Val Val Arg Gly Gly Arg Val Asn Thr His Ala Gly Gly Thr
1190 1195 1200

Gly Pro Glu Gly Cys Arg Pro Phe Ala Lys Phe Ile
1205 1210 1215

<210> 24
<211> 1189
<212> PRT
<213> Homo Sapiens

<400> 24

Met Pro Ala Ser Ala Pro Pro Arg Arg Pro Arg Pro Pro Pro Ser
1 5 10 15

PhoenixTemp63617.tmp.txt

Leu Ser Leu Leu Leu Val Leu Leu Gly Leu Gly Gly Arg Arg Leu Pro
 20 25 30

Leu Pro Glu Asn Gln Pro Leu Glu Gly Thr Phe Pro Cys Asp Phe Ala
 35 40 45

Trp Gly Val Val Asp Asn Tyr Ile Gln Val Asp Thr Thr Leu Ser Gln
 50 55 60

Phe Thr Asp Leu Asn Val Tyr Leu Trp Asp Val His His Ser Lys Arg
 65 70 75 80

Leu Ile Lys Val Asp Gly Val Val Thr Lys Lys Arg Lys Ser Tyr Cys
 85 90 95

Val Asp Phe Ala Ala Ile Gln Pro Gln Ile Ala Leu Leu Gln Glu Met
 100 105 110

His Val Thr His Phe Arg Phe Ser Leu Asp Trp Ala Leu Ile Leu Pro
 115 120 125

Leu Gly Asn Gln Ser Gln Val Asn His Thr Ile Leu Gln Tyr Tyr Arg
 130 135 140

Cys Met Ala Ser Glu Leu Val Arg Val Asn Ile Thr Pro Val Val Ala
 145 150 155 160

Leu Trp Gln Pro Met Ala Pro Asn Gln Gly Leu Pro Arg Leu Leu Ala
 165 170 175

Arg Gln Gly Ala Trp Glu Asn Pro Tyr Thr Ala Leu Ala Phe Ala Glu
 180 185 190

Tyr Ala Arg Leu Cys Phe Gln Glu Leu Gly His His Val Lys Leu Trp
 195 200 205

Ile Thr Met Asn Glu Pro Tyr Thr Arg Asn Met Thr Tyr Ser Ala Gly
 210 215 220

His Asn Leu Leu Lys Ala His Ala Leu Ala Trp His Val Tyr Asn Glu
 225 230 235 240

Lys Phe Arg His Ala Gln Asn Gly Lys Ile Ser Ile Ala Leu Gln Ala
 245 250 255

Asp Trp Ile Glu Pro Ala Cys Pro Phe Ser Gln Lys Asp Lys Glu Val
 260 265 270

PhoenixTemp63617.tmp.txt

Ala Glu Arg Val Leu Glu Phe Asp Ile Gly Trp Leu Ala Glu Pro Ile
275 280 285

Phe Gly Ser Gly Asp Tyr Pro Trp Val Met Arg Asp Trp Leu Asn Gln
290 295 300

Arg Asn Asn Phe Leu Leu Pro Tyr Phe Thr Glu Asp Glu Lys Lys Leu
305 310 315 320

Ile Gln Gly Thr Phe Asp Phe Leu Ala Leu Ser His Tyr Thr Thr Ile
325 330 335

Leu Val Asp Ser Glu Lys Glu Asp Pro Ile Lys Tyr Asn Asp Tyr Leu
340 345 350

Glu Val Gln Glu Met Thr Asp Ile Thr Trp Leu Asn Ser Pro Ser Gln
355 360 365

Val Ala Val Val Pro Trp Gly Leu Arg Lys Val Leu Asn Trp Leu Lys
370 375 380

Phe Lys Tyr Gly Asp Leu Pro Met Tyr Ile Ile Ser Asn Gly Ile Asp
385 390 395 400

Asp Gly Leu His Ala Glu Asp Asp Gln Leu Arg Val Tyr Tyr Met Gln
405 410 415

Asn Tyr Ile Asn Glu Ala Leu Lys Ala His Ile Leu Asp Gly Ile Asn
420 425 430

Leu Cys Gly Tyr Phe Ala Tyr Ser Phe Asn Asp Arg Thr Ala Pro Arg
435 440 445

Phe Gly Leu Tyr Arg Tyr Ala Ala Asp Gln Phe Glu Pro Lys Ala Ser
450 455 460

Met Lys His Tyr Arg Lys Ile Ile Asp Ser Asn Gly Phe Pro Gly Pro
465 470 475 480

Glu Thr Leu Glu Arg Phe Cys Pro Glu Glu Phe Thr Val Cys Thr Glu
485 490 495

Cys Ser Phe Phe His Thr Arg Lys Ser Leu Gly Thr Phe Pro Cys Asp
500 505 510

Phe Ala Trp Gly Val Val Asp Asn Tyr Ile Gln Val Asp Thr Thr Leu
515 520 525

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Ser Gln Phe Thr Asp Leu Asn Val Tyr Leu Trp Asp Val His His Ser
 530 535 540

Lys Arg Leu Ile Lys Val Asp Gly Val Val Thr Lys Lys Arg Lys Ser
 545 550 555 560

Tyr Cys Val Asp Phe Ala Ala Ile Gln Pro Gln Ile Ala Leu Leu Gln
 565 570 575

Glu Met His Val Thr His Phe Arg Phe Ser Leu Asp Trp Ala Leu Ile
 580 585 590

Leu Pro Leu Gly Asn Gln Ser Gln Val Asn His Thr Ile Leu Gln Tyr
 595 600 605

Tyr Arg Cys Met Ala Ser Glu Leu Val Arg Val Asn Ile Thr Pro Val
 610 615 620

Val Ala Leu Trp Gln Pro Met Ala Pro Asn Gln Gly Leu Pro Arg Leu
 625 630 635 640

Leu Ala Arg Gln Gly Ala Trp Glu Asn Pro Tyr Thr Ala Leu Ala Phe
 645 650 655

Ala Glu Tyr Ala Arg Leu Cys Phe Gln Glu Leu Gly His His Val Lys
 660 665 670

Leu Trp Ile Thr Met Asn Glu Pro Tyr Thr Arg Asn Met Thr Tyr Ser
 675 680 685

Ala Gly His Asn Leu Leu Lys Ala His Ala Leu Ala Trp His Val Tyr
 690 695 700

Asn Glu Lys Phe Arg His Ala Gln Asn Gly Lys Ile Ser Ile Ala Leu
 705 710 715 720

Gln Ala Asp Trp Ile Glu Pro Ala Cys Pro Phe Ser Gln Lys Asp Lys
 725 730 735

Glu Val Ala Glu Arg Val Leu Glu Phe Asp Ile Gly Trp Leu Ala Glu
 740 745 750

Pro Ile Phe Gly Ser Gly Asp Tyr Pro Trp Val Met Arg Asp Trp Leu
 755 760 765

Asn Gln Arg Asn Asn Phe Leu Leu Pro Tyr Phe Thr Glu Asp Glu Lys
 770 775 780

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Lys Leu Ile Gln Gly Thr Phe Asp Phe Leu Ala Leu Ser His Tyr Thr
 785 790 795 800

Thr Ile Leu Val Asp Ser Glu Lys Glu Asp Pro Ile Lys Tyr Asn Asp
 805 810 815

Tyr Leu Glu Val Gln Glu Met Thr Asp Ile Thr Trp Leu Asn Ser Pro
 820 825 830

Ser Gln Val Ala Val Val Pro Trp Gly Leu Arg Lys Val Leu Asn Trp
 835 840 845

Leu Lys Phe Lys Tyr Gly Asp Leu Pro Met Tyr Ile Ile Ser Asn Gly
 850 855 860

Ile Asp Asp Gly Leu His Ala Glu Asp Asp Gln Leu Arg Val Tyr Tyr
 865 870 875 880

Met Gln Asn Tyr Ile Asn Glu Ala Leu Lys Ala His Ile Leu Asp Gly
 885 890 895

Ile Asn Leu Cys Gly Tyr Phe Ala Tyr Ser Phe Asn Asp Arg Thr Ala
 900 905 910

Pro Arg Phe Gly Leu Tyr Arg Tyr Ala Ala Asp Gln Phe Glu Pro Lys
 915 920 925

Ala Ser Met Lys His Tyr Arg Lys Ile Ile Asp Ser Asn Gly Phe Gly
 930 935 940

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 945 950 955 960

Leu Lys Tyr Pro Asn Ala Ser Pro Leu Leu Gly Ser Ser Trp Gly Gly
 965 970 975

Leu Ile His Leu Tyr Thr Ala Thr Ala Arg Asn Ser Tyr His Leu Gln
 980 985 990

Ile His Lys Asn Gly His Val Asp Gly Ala Pro His Gln Thr Ile Tyr
 995 1000 1005

Ser Ala Leu Met Ile Arg Ser Glu Asp Ala Gly Phe Val Val Ile
 1010 1015 1020

Thr Gly Val Met Ser Arg Arg Tyr Leu Cys Met Asp Phe Arg Gly
 1025 1030 1035

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Asn Ile Phe Gly Ser His Tyr Phe Asp Pro Glu Asn Cys Arg Phe
1040 1045 1050

Gln His Gln Thr Leu Glu Asn Gly Tyr Asp Val Tyr His Ser Pro
1055 1060 1065

Gln Tyr His Phe Leu Val Ser Leu Gly Arg Ala Lys Arg Ala Phe
1070 1075 1080

Leu Pro Gly Met Asn Pro Pro Pro Tyr Ser Gln Phe Leu Ser Arg
1085 1090 1095

Arg Asn Glu Ile Pro Leu Ile His Phe Asn Thr Pro Ile Pro Arg
1100 1105 1110

Arg His Thr Gln Ser Ala Glu Asp Asp Ser Glu Arg Asp Pro Leu
1115 1120 1125

Asn Val Leu Lys Pro Arg Ala Arg Met Thr Pro Ala Pro Ala Ser
1130 1135 1140

Cys Ser Gln Glu Leu Pro Ser Ala Glu Asp Asn Ser Pro Met Ala
1145 1150 1155

Ser Asp Pro Leu Gly Val Val Arg Gly Gly Arg Val Asn Thr His
1160 1165 1170

Ala Gly Gly Thr Gly Pro Glu Gly Cys Arg Pro Phe Ala Lys Phe
1175 1180 1185

Ile

<210> 25
<211> 1219
<212> PRT
<213> Homo Sapiens

<400> 25

Met Leu Gly Ala Arg Leu Arg Leu Trp Val Cys Ala Leu Cys Ser Val
1 5 10 15

Cys Ser Met Ser Val Leu Arg Ala Tyr Pro Asn Ala Ser Pro Leu Leu
20 25 30

Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala Thr Ala Arg
35 40 45

Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His Val Asp Gly Ala

50

55

60

Pro His Gln Thr Ile Tyr Ser Ala Leu Met Ile Arg Ser Glu Asp Ala
65 70 75 80

Gly Phe Val Val Ile Thr Gly Val Met Ser Arg Arg Tyr Leu Cys Met
85 90 95

Asp Phe Arg Gly Asn Ile Phe Gly Ser His Tyr Phe Asp Pro Glu Asn
100 105 110

Cys Arg Phe Gln His Gln Thr Leu Glu Asn Gly Tyr Asp Val Tyr His
115 120 125

Ser Pro Gln Tyr His Phe Leu Val Ser Leu Gly Arg Ala Lys Arg Ala
130 135 140

Phe Leu Pro Gly Met Asn Pro Pro Pro Tyr Ser Gln Phe Leu Ser Arg
145 150 155 160

Arg Asn Glu Ile Pro Leu Ile His Phe Asn Thr Pro Ile Pro Arg Arg
165 170 175

His Thr Gln Ser Ala Glu Asp Asp Ser Glu Arg Asp Pro Leu Asn Val
180 185 190

Leu Lys Pro Arg Ala Arg Met Thr Pro Ala Pro Ala Ser Cys Ser Gln
195 200 205

Glu Leu Pro Ser Ala Glu Asp Asn Ser Pro Met Ala Ser Asp Pro Leu
210 215 220

Gly Val Val Arg Gly Gly Arg Val Asn Thr His Ala Gly Gly Thr Gly
225 230 235 240

Pro Glu Gly Cys Arg Pro Phe Ala Lys Phe Ile Gly Ser Gly Gly Gly
245 250 255

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Leu Lys Glu Pro
260 265 270

Gly Asp Gly Ala Gln Thr Trp Ala Arg Phe Ser Arg Pro Pro Ala Pro
275 280 285

Glu Ala Ala Gly Leu Phe Gln Gly Thr Phe Pro Asp Gly Phe Leu Trp
290 295 300

Ala Val Gly Ser Ala Ala Tyr Gln Thr Glu Gly Gly Trp Gln Gln His

305				310				315				320			
Gly	Lys	Gly	Ala	Ser 325	Ile	Trp	Asp	Thr	Phe 330	Thr	His	His	Pro	Leu 335	Ala
Pro	Pro	Gly	Asp 340	Ser	Arg	Asn	Ala	Ser 345	Leu	Pro	Leu	Gly	Ala 350	Pro	Ser
Pro	Leu	Gln 355	Pro	Ala	Thr	Gly	Asp 360	Val	Ala	Ser	Asp	Ser 365	Tyr	Asn	Asn
Val	Phe 370	Arg	Asp	Thr	Glu	Ala 375	Leu	Arg	Glu	Leu	Gly 380	Val	Thr	His	Tyr
Arg 385	Phe	Ser	Ile	Ser	Trp 390	Ala	Arg	Val	Leu	Pro 395	Asn	Gly	Ser	Ala	Gly 400
Val	Pro	Asn	Arg	Glu 405	Gly	Leu	Arg	Tyr	Tyr 410	Arg	Arg	Leu	Leu	Glu 415	Arg
Leu	Arg	Glu	Leu 420	Gly	Val	Gln	Pro	Val 425	Val	Thr	Leu	Tyr	His 430	Trp	Asp
Leu	Pro	Gln 435	Arg	Leu	Gln	Asp	Ala 440	Tyr	Gly	Gly	Trp	Ala 445	Asn	Arg	Ala
Leu	Ala 450	Asp	His	Phe	Arg	Asp 455	Tyr	Ala	Glu	Leu	Cys 460	Phe	Arg	His	Phe
Gly 465	Gly	Gln	Val	Lys	Tyr 470	Trp	Ile	Thr	Ile	Asp 475	Asn	Pro	Tyr	Val	Val 480
Ala	Trp	His	Gly	Tyr 485	Ala	Thr	Gly	Arg	Leu 490	Ala	Pro	Gly	Ile	Arg 495	Gly
Ser	Pro	Arg	Leu 500	Gly	Tyr	Leu	Val	Ala 505	His	Asn	Leu	Leu	Leu 510	Ala	His
Ala	Lys	Val 515	Trp	His	Leu	Tyr	Asn 520	Thr	Ser	Phe	Arg	Pro 525	Thr	Gln	Gly
Gly	Gln 530	Val	Ser	Ile	Ala	Leu 535	Ser	Ser	His	Trp	Ile 540	Asn	Pro	Arg	Arg
Met 545	Thr	Asp	His	Ser	Ile 550	Lys	Glu	Cys	Gln	Lys 555	Ser	Leu	Asp	Phe	Val 560
Leu	Gly	Trp	Phe	Ala	Lys	Pro	Val	Phe	Ile	Asp	Gly	Asp	Tyr	Pro	Glu

565

570

575

Ser Met Lys Asn Asn Leu Ser Ser Ile Leu Pro Asp Phe Thr Glu Ser
580 585 590

Glu Lys Lys Phe Ile Lys Gly Thr Ala Asp Phe Phe Ala Leu Cys Phe
595 600 605

Gly Pro Thr Leu Ser Phe Gln Leu Leu Asp Pro His Met Lys Phe Arg
610 615 620

Gln Leu Glu Ser Pro Asn Leu Arg Gln Leu Leu Ser Trp Ile Asp Leu
625 630 635 640

Glu Phe Asn His Pro Gln Ile Phe Ile Val Glu Asn Gly Trp Phe Val
645 650 655

Ser Gly Thr Thr Lys Arg Asp Asp Ala Lys Tyr Met Tyr Tyr Leu Lys
660 665 670

Lys Phe Ile Met Glu Thr Leu Lys Ala Ile Lys Leu Asp Gly Val Asp
675 680 685

Val Ile Gly Tyr Thr Ala Trp Ser Leu Met Asp Gly Phe Glu Trp His
690 695 700

Arg Gly Tyr Ser Ile Arg Arg Gly Leu Phe Tyr Val Asp Phe Leu Ser
705 710 715 720

Gln Asp Lys Met Leu Leu Pro Lys Ser Ser Ala Leu Phe Tyr Gln Lys
725 730 735

Leu Ile Glu Lys Asn Gly Phe Pro Pro Leu Pro Glu Asn Gln Pro Leu
740 745 750

Glu Gly Thr Phe Pro Cys Asp Phe Ala Trp Gly Val Val Asp Asn Tyr
755 760 765

Ile Gln Val Asp Thr Thr Leu Ser Gln Phe Thr Asp Leu Asn Val Tyr
770 775 780

Leu Trp Asp Val His His Ser Lys Arg Leu Ile Lys Val Asp Gly Val
785 790 795 800

Val Thr Lys Lys Arg Lys Ser Tyr Cys Val Asp Phe Ala Ala Ile Gln
805 810 815

Pro Gln Ile Ala Leu Leu Gln Glu Met His Val Thr His Phe Arg Phe

820

825

830

Ser Leu Asp Trp Ala Leu Ile Leu Pro Leu Gly Asn Gln Ser Gln Val
835 840 845

Asn His Thr Ile Leu Gln Tyr Tyr Arg Cys Met Ala Ser Glu Leu Val
850 855 860

Arg Val Asn Ile Thr Pro Val Val Ala Leu Trp Gln Pro Met Ala Pro
865 870 875 880

Asn Gln Gly Leu Pro Arg Leu Leu Ala Arg Gln Gly Ala Trp Glu Asn
885 890 895

Pro Tyr Thr Ala Leu Ala Phe Ala Glu Tyr Ala Arg Leu Cys Phe Gln
900 905 910

Glu Leu Gly His His Val Lys Leu Trp Ile Thr Met Asn Glu Pro Tyr
915 920 925

Thr Arg Asn Met Thr Tyr Ser Ala Gly His Asn Leu Leu Lys Ala His
930 935 940

Ala Leu Ala Trp His Val Tyr Asn Glu Lys Phe Arg His Ala Gln Asn
945 950 955 960

Gly Lys Ile Ser Ile Ala Leu Gln Ala Asp Trp Ile Glu Pro Ala Cys
965 970 975

Pro Phe Ser Gln Lys Asp Lys Glu Val Ala Glu Arg Val Leu Glu Phe
980 985 990

Asp Ile Gly Trp Leu Ala Glu Pro Ile Phe Gly Ser Gly Asp Tyr Pro
995 1000 1005

Trp Val Met Arg Asp Trp Leu Asn Gln Arg Asn Asn Phe Leu Leu
1010 1015 1020

Pro Tyr Phe Thr Glu Asp Glu Lys Lys Leu Ile Gln Gly Thr Phe
1025 1030 1035

Asp Phe Leu Ala Leu Ser His Tyr Thr Thr Ile Leu Val Asp Ser
1040 1045 1050

Glu Lys Glu Asp Pro Ile Lys Tyr Asn Asp Tyr Leu Glu Val Gln
1055 1060 1065

Glu Met Thr Asp Ile Thr Trp Leu Asn Ser Pro Ser Gln Val Ala

1070

1075

1080

Val Val Pro Trp Gly Leu Arg Lys Val Leu Asn Trp Leu Lys Phe
 1085 1090 1095

Lys Tyr Gly Asp Leu Pro Met Tyr Ile Ile Ser Asn Gly Ile Asp
 1100 1105 1110

Asp Gly Leu His Ala Glu Asp Asp Gln Leu Arg Val Tyr Tyr Met
 1115 1120 1125

Gln Asn Tyr Ile Asn Glu Ala Leu Lys Ala His Ile Leu Asp Gly
 1130 1135 1140

Ile Asn Leu Cys Gly Tyr Phe Ala Tyr Ser Phe Asn Asp Arg Thr
 1145 1150 1155

Ala Pro Arg Phe Gly Leu Tyr Arg Tyr Ala Ala Asp Gln Phe Glu
 1160 1165 1170

Pro Lys Ala Ser Met Lys His Tyr Arg Lys Ile Ile Asp Ser Asn
 1175 1180 1185

Gly Phe Pro Gly Pro Glu Thr Leu Glu Arg Phe Cys Pro Glu Glu
 1190 1195 1200

Phe Thr Val Cys Thr Glu Cys Ser Phe Phe His Thr Arg Lys Ser
 1205 1210 1215

Leu

<210> 26

<211> 700

<212> PRT

<213> Homo Sapiens

<400> 26

Met Leu Gly Ala Arg Leu Arg Leu Trp Val Cys Ala Leu Cys Ser Val
 1 5 10 15

Cys Ser Met Ser Val Leu Arg Ala Tyr Pro Asn Ala Ser Pro Leu Leu
 20 25 30

Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala Thr Ala Arg
 35 40 45

Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His Val Asp Gly Ala
 50 55 60

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Pro His Gln Thr Ile Tyr Ser Ala Leu Met Ile Arg Ser Glu Asp Ala
65 70 75 80

Gly Phe Val Val Ile Thr Gly Val Met Ser Arg Arg Tyr Leu Cys Met
85 90 95

Asp Phe Arg Gly Asn Ile Phe Gly Ser His Tyr Phe Asp Pro Glu Asn
100 105 110

Cys Arg Phe Gln His Gln Thr Leu Glu Asn Gly Tyr Asp Val Tyr His
115 120 125

Ser Pro Gln Tyr His Phe Leu Val Ser Leu Gly Arg Ala Lys Arg Ala
130 135 140

Phe Leu Pro Gly Met Asn Pro Pro Pro Tyr Ser Gln Phe Leu Ser Arg
145 150 155 160

Arg Asn Glu Ile Pro Leu Ile His Phe Asn Thr Pro Ile Pro Arg Arg
165 170 175

His Thr Gln Ser Ala Glu Asp Asp Ser Glu Arg Asp Pro Leu Asn Val
180 185 190

Leu Lys Pro Arg Ala Arg Met Thr Pro Ala Pro Ala Ser Cys Ser Gln
195 200 205

Glu Leu Pro Ser Ala Glu Asp Asn Ser Pro Met Ala Ser Asp Pro Leu
210 215 220

Gly Val Val Arg Gly Gly Arg Val Asn Thr His Ala Gly Gly Thr Gly
225 230 235 240

Pro Glu Gly Cys Arg Pro Phe Ala Lys Phe Ile Gln Gly Thr Phe Pro
245 250 255

Asp Gly Phe Leu Trp Ala Val Gly Ser Ala Ala Tyr Gln Thr Glu Gly
260 265 270

Gly Trp Gln Gln His Gly Lys Gly Ala Ser Ile Trp Asp Thr Phe Thr
275 280 285

His His Pro Leu Ala Pro Pro Gly Asp Ser Arg Asn Ala Ser Leu Pro
290 295 300

Leu Gly Ala Pro Ser Pro Leu Gln Pro Ala Thr Gly Asp Val Ala Ser
305 310 315 320

PhoenixTemp63617.tmp.txt

Asp Ser Tyr Asn Asn Val Phe Arg Asp Thr Glu Ala Leu Arg Glu Leu
325 330 335

Gly Val Thr His Tyr Arg Phe Ser Ile Ser Trp Ala Arg Val Leu Pro
340 345 350

Asn Gly Ser Ala Gly Val Pro Asn Arg Glu Gly Leu Arg Tyr Tyr Arg
355 360 365

Arg Leu Leu Glu Arg Leu Arg Glu Leu Gly Val Gln Pro Val Val Thr
370 375 380

Leu Tyr His Trp Asp Leu Pro Gln Arg Leu Gln Asp Ala Tyr Gly Gly
385 390 395 400

Trp Ala Asn Arg Ala Leu Ala Asp His Phe Arg Asp Tyr Ala Glu Leu
405 410 415

Cys Phe Arg His Phe Gly Gly Gln Val Lys Tyr Trp Ile Thr Ile Asp
420 425 430

Asn Pro Tyr Val Val Ala Trp His Gly Tyr Ala Thr Gly Arg Leu Ala
435 440 445

Pro Gly Ile Arg Gly Ser Pro Arg Leu Gly Tyr Leu Val Ala His Asn
450 455 460

Leu Leu Leu Ala His Ala Lys Val Trp His Leu Tyr Asn Thr Ser Phe
465 470 475 480

Arg Pro Thr Gln Gly Gly Gln Val Ser Ile Ala Leu Ser Ser His Trp
485 490 495

Ile Asn Pro Arg Arg Met Thr Asp His Ser Ile Lys Glu Cys Gln Lys
500 505 510

Ser Leu Asp Phe Val Leu Gly Trp Phe Ala Lys Pro Val Phe Ile Asp
515 520 525

Gly Asp Tyr Pro Glu Ser Met Lys Asn Asn Leu Ser Ser Ile Leu Pro
530 535 540

Asp Phe Thr Glu Ser Glu Lys Lys Phe Ile Lys Gly Thr Ala Asp Phe
545 550 555 560

Phe Ala Leu Cys Phe Gly Pro Thr Leu Ser Phe Gln Leu Leu Asp Pro
565 570 575

PhoenixTemp63617.tmp.txt

His Met Lys Phe Arg Gln Leu Glu Ser Pro Asn Leu Arg Gln Leu Leu
580 585 590

Ser Trp Ile Asp Leu Glu Phe Asn His Pro Gln Ile Phe Ile Val Glu
595 600 605

Asn Gly Trp Phe Val Ser Gly Thr Thr Lys Arg Asp Asp Ala Lys Tyr
610 615 620

Met Tyr Tyr Leu Lys Lys Phe Ile Met Glu Thr Leu Lys Ala Ile Lys
625 630 635 640

Leu Asp Gly Val Asp Val Ile Gly Tyr Thr Ala Trp Ser Leu Met Asp
645 650 655

Gly Phe Glu Trp His Arg Gly Tyr Ser Ile Arg Arg Gly Leu Phe Tyr
660 665 670

Val Asp Phe Leu Ser Gln Asp Lys Met Leu Leu Pro Lys Ser Ser Ala
675 680 685

Leu Phe Tyr Gln Lys Leu Ile Glu Lys Asn Gly Phe
690 695 700

<210> 27
<211> 688
<212> PRT
<213> Homo Sapiens

<400> 27

Met Leu Gly Ala Arg Leu Arg Leu Trp Val Cys Ala Leu Cys Ser Val
1 5 10 15

Cys Ser Met Ser Val Leu Arg Ala Tyr Pro Asn Ala Ser Pro Leu Leu
20 25 30

Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala Thr Ala Arg
35 40 45

Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His Val Asp Gly Ala
50 55 60

Pro His Gln Thr Ile Tyr Ser Ala Leu Met Ile Arg Ser Glu Asp Ala
65 70 75 80

Gly Phe Val Val Ile Thr Gly Val Met Ser Arg Arg Tyr Leu Cys Met
85 90 95

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

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Tyr Tyr Arg Cys Met Ala Ser Glu Leu Val Arg Val Asn Ile Thr Pro
 355 360 365

 Val Val Ala Leu Trp Gln Pro Met Ala Pro Asn Gln Gly Leu Pro Arg
 370 375 380

 Leu Leu Ala Arg Gln Gly Ala Trp Glu Asn Pro Tyr Thr Ala Leu Ala
 385 390 395 400

 Phe Ala Glu Tyr Ala Arg Leu Cys Phe Gln Glu Leu Gly His His Val
 405 410 415

 Lys Leu Trp Ile Thr Met Asn Glu Pro Tyr Thr Arg Asn Met Thr Tyr
 420 425 430

 Ser Ala Gly His Asn Leu Leu Lys Ala His Ala Leu Ala Trp His Val
 435 440 445

 Tyr Asn Glu Lys Phe Arg His Ala Gln Asn Gly Lys Ile Ser Ile Ala
 450 455 460

 Leu Gln Ala Asp Trp Ile Glu Pro Ala Cys Pro Phe Ser Gln Lys Asp
 465 470 475 480

 Lys Glu Val Ala Glu Arg Val Leu Glu Phe Asp Ile Gly Trp Leu Ala
 485 490 495

 Glu Pro Ile Phe Gly Ser Gly Asp Tyr Pro Trp Val Met Arg Asp Trp
 500 505 510

 Leu Asn Gln Arg Asn Asn Phe Leu Leu Pro Tyr Phe Thr Glu Asp Glu
 515 520 525

 Lys Lys Leu Ile Gln Gly Thr Phe Asp Phe Leu Ala Leu Ser His Tyr
 530 535 540

 Thr Thr Ile Leu Val Asp Ser Glu Lys Glu Asp Pro Ile Lys Tyr Asn
 545 550 555 560

 Asp Tyr Leu Glu Val Gln Glu Met Thr Asp Ile Thr Trp Leu Asn Ser
 565 570 575

 Pro Ser Gln Val Ala Val Val Pro Trp Gly Leu Arg Lys Val Leu Asn
 580 585 590

 Trp Leu Lys Phe Lys Tyr Gly Asp Leu Pro Met Tyr Ile Ile Ser Asn
 595 600 605

PhoenixTemp63617.tmp.txt

Gly Ile Asp Asp Gly Leu His Ala Glu Asp Asp Gln Leu Arg Val Tyr
610 615 620

Tyr Met Gln Asn Tyr Ile Asn Glu Ala Leu Lys Ala His Ile Leu Asp
625 630 635 640

Gly Ile Asn Leu Cys Gly Tyr Phe Ala Tyr Ser Phe Asn Asp Arg Thr
645 650 655

Ala Pro Arg Phe Gly Leu Tyr Arg Tyr Ala Ala Asp Gln Phe Glu Pro
660 665 670

Lys Ala Ser Met Lys His Tyr Arg Lys Ile Ile Asp Ser Asn Gly Phe
675 680 685

<210> 28
<211> 1149
<212> PRT
<213> Homo Sapiens

<400> 28

Met Leu Gly Ala Arg Leu Arg Leu Trp Val Cys Ala Leu Cys Ser Val
1 5 10 15

Cys Ser Met Ser Val Leu Arg Ala Tyr Pro Asn Ala Ser Pro Leu Leu
20 25 30

Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala Thr Ala Arg
35 40 45

Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His Val Asp Gly Ala
50 55 60

Pro His Gln Thr Ile Tyr Ser Ala Leu Met Ile Arg Ser Glu Asp Ala
65 70 75 80

Gly Phe Val Val Ile Thr Gly Val Met Ser Arg Arg Tyr Leu Cys Met
85 90 95

Asp Phe Arg Gly Asn Ile Phe Gly Ser His Tyr Phe Asp Pro Glu Asn
100 105 110

Cys Arg Phe Gln His Gln Thr Leu Glu Asn Gly Tyr Asp Val Tyr His
115 120 125

Ser Pro Gln Tyr His Phe Leu Val Ser Leu Gly Arg Ala Lys Arg Ala
130 135 140

PhoenixTemp63617.tmp.txt

Phe	Leu	Pro	Gly	Met	Asn	Pro	Pro	Pro	Tyr	Ser	Gln	Phe	Leu	Ser	Arg
145					150					155					160
Arg	Asn	Glu	Ile	Pro	Leu	Ile	His	Phe	Asn	Thr	Pro	Ile	Pro	Arg	Arg
				165					170					175	
His	Thr	Gln	Ser	Ala	Glu	Asp	Asp	Ser	Glu	Arg	Asp	Pro	Leu	Asn	Val
			180					185					190		
Leu	Lys	Pro	Arg	Ala	Arg	Met	Thr	Pro	Ala	Pro	Ala	Ser	Cys	Ser	Gln
		195					200					205			
Glu	Leu	Pro	Ser	Ala	Glu	Asp	Asn	Ser	Pro	Met	Ala	Ser	Asp	Pro	Leu
	210					215					220				
Gly	Val	Val	Arg	Gly	Gly	Arg	Val	Asn	Thr	His	Ala	Gly	Gly	Thr	Gly
225					230					235					240
Pro	Glu	Gly	Cys	Arg	Pro	Phe	Ala	Lys	Phe	Ile	Gln	Gly	Thr	Phe	Pro
				245					250					255	
Asp	Gly	Phe	Leu	Trp	Ala	Val	Gly	Ser	Ala	Ala	Tyr	Gln	Thr	Glu	Gly
			260					265					270		
Gly	Trp	Gln	Gln	His	Gly	Lys	Gly	Ala	Ser	Ile	Trp	Asp	Thr	Phe	Thr
		275					280					285			
His	His	Pro	Leu	Ala	Pro	Pro	Gly	Asp	Ser	Arg	Asn	Ala	Ser	Leu	Pro
	290					295					300				
Leu	Gly	Ala	Pro	Ser	Pro	Leu	Gln	Pro	Ala	Thr	Gly	Asp	Val	Ala	Ser
305					310					315					320
Asp	Ser	Tyr	Asn	Asn	Val	Phe	Arg	Asp	Thr	Glu	Ala	Leu	Arg	Glu	Leu
				325					330					335	
Gly	Val	Thr	His	Tyr	Arg	Phe	Ser	Ile	Ser	Trp	Ala	Arg	Val	Leu	Pro
			340					345					350		
Asn	Gly	Ser	Ala	Gly	Val	Pro	Asn	Arg	Glu	Gly	Leu	Arg	Tyr	Tyr	Arg
		355					360					365			
Arg	Leu	Leu	Glu	Arg	Leu	Arg	Glu	Leu	Gly	Val	Gln	Pro	Val	Val	Thr
	370					375					380				
Leu	Tyr	His	Trp	Asp	Leu	Pro	Gln	Arg	Leu	Gln	Asp	Ala	Tyr	Gly	Gly
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PhoenixTemp63617.tmp.txt

Trp Ala Asn Arg Ala Leu Ala Asp His Phe Arg Asp Tyr Ala Glu Leu
 405 410 415
 Cys Phe Arg His Phe Gly Gly Gln Val Lys Tyr Trp Ile Thr Ile Asp
 420 425 430
 Asn Pro Tyr Val Val Ala Trp His Gly Tyr Ala Thr Gly Arg Leu Ala
 435 440 445
 Pro Gly Ile Arg Gly Ser Pro Arg Leu Gly Tyr Leu Val Ala His Asn
 450 455 460
 Leu Leu Leu Ala His Ala Lys Val Trp His Leu Tyr Asn Thr Ser Phe
 465 470 475 480
 Arg Pro Thr Gln Gly Gly Gln Val Ser Ile Ala Leu Ser Ser His Trp
 485 490 495
 Ile Asn Pro Arg Arg Met Thr Asp His Ser Ile Lys Glu Cys Gln Lys
 500 505 510
 Ser Leu Asp Phe Val Leu Gly Trp Phe Ala Lys Pro Val Phe Ile Asp
 515 520 525
 Gly Asp Tyr Pro Glu Ser Met Lys Asn Asn Leu Ser Ser Ile Leu Pro
 530 535 540
 Asp Phe Thr Glu Ser Glu Lys Lys Phe Ile Lys Gly Thr Ala Asp Phe
 545 550 555 560
 Phe Ala Leu Cys Phe Gly Pro Thr Leu Ser Phe Gln Leu Leu Asp Pro
 565 570 575
 His Met Lys Phe Arg Gln Leu Glu Ser Pro Asn Leu Arg Gln Leu Leu
 580 585 590
 Ser Trp Ile Asp Leu Glu Phe Asn His Pro Gln Ile Phe Ile Val Glu
 595 600 605
 Asn Gly Trp Phe Val Ser Gly Thr Thr Lys Arg Asp Asp Ala Lys Tyr
 610 615 620
 Met Tyr Tyr Leu Lys Lys Phe Ile Met Glu Thr Leu Lys Ala Ile Lys
 625 630 635 640
 Leu Asp Gly Val Asp Val Ile Gly Tyr Thr Ala Trp Ser Leu Met Asp
 645 650 655

Gly Phe Glu Trp His Arg Gly Tyr Ser Ile Arg Arg Gly Leu Phe Tyr
 660 665 670

Val Asp Phe Leu Ser Gln Asp Lys Met Leu Leu Pro Lys Ser Ser Ala
 675 680 685

Leu Phe Tyr Gln Lys Leu Ile Glu Lys Asn Gly Phe Gln Gly Thr Phe
 690 695 700

Pro Asp Gly Phe Leu Trp Ala Val Gly Ser Ala Ala Tyr Gln Thr Glu
 705 710 715 720

Gly Gly Trp Gln Gln His Gly Lys Gly Ala Ser Ile Trp Asp Thr Phe
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Thr His His Pro Leu Ala Pro Pro Gly Asp Ser Arg Asn Ala Ser Leu
 740 745 750

Pro Leu Gly Ala Pro Ser Pro Leu Gln Pro Ala Thr Gly Asp Val Ala
 755 760 765

Ser Asp Ser Tyr Asn Asn Val Phe Arg Asp Thr Glu Ala Leu Arg Glu
 770 775 780

Leu Gly Val Thr His Tyr Arg Phe Ser Ile Ser Trp Ala Arg Val Leu
 785 790 795 800

Pro Asn Gly Ser Ala Gly Val Pro Asn Arg Glu Gly Leu Arg Tyr Tyr
 805 810 815

Arg Arg Leu Leu Glu Arg Leu Arg Glu Leu Gly Val Gln Pro Val Val
 820 825 830

Thr Leu Tyr His Trp Asp Leu Pro Gln Arg Leu Gln Asp Ala Tyr Gly
 835 840 845

Gly Trp Ala Asn Arg Ala Leu Ala Asp His Phe Arg Asp Tyr Ala Glu
 850 855 860

Leu Cys Phe Arg His Phe Gly Gly Gln Val Lys Tyr Trp Ile Thr Ile
 865 870 875 880

Asp Asn Pro Tyr Val Val Ala Trp His Gly Tyr Ala Thr Gly Arg Leu
 885 890 895

Ala Pro Gly Ile Arg Gly Ser Pro Arg Leu Gly Tyr Leu Val Ala His
 900 905 910

PhoenixTemp63617.tmp.txt

Asn Leu Leu Leu Ala His Ala Lys Val Trp His Leu Tyr Asn Thr Ser
 915 920 925

Phe Arg Pro Thr Gln Gly Gly Gln Val Ser Ile Ala Leu Ser Ser His
 930 935 940

Trp Ile Asn Pro Arg Arg Met Thr Asp His Ser Ile Lys Glu Cys Gln
 945 950 955 960

Lys Ser Leu Asp Phe Val Leu Gly Trp Phe Ala Lys Pro Val Phe Ile
 965 970 975

Asp Gly Asp Tyr Pro Glu Ser Met Lys Asn Asn Leu Ser Ser Ile Leu
 980 985 990

Pro Asp Phe Thr Glu Ser Glu Lys Lys Phe Ile Lys Gly Thr Ala Asp
 995 1000 1005

Phe Phe Ala Leu Cys Phe Gly Pro Thr Leu Ser Phe Gln Leu Leu
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Asp Pro His Met Lys Phe Arg Gln Leu Glu Ser Pro Asn Leu Arg
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Gln Leu Leu Ser Trp Ile Asp Leu Glu Phe Asn His Pro Gln Ile
 1040 1045 1050

Phe Ile Val Glu Asn Gly Trp Phe Val Ser Gly Thr Thr Lys Arg
 1055 1060 1065

Asp Asp Ala Lys Tyr Met Tyr Tyr Leu Lys Lys Phe Ile Met Glu
 1070 1075 1080

Thr Leu Lys Ala Ile Lys Leu Asp Gly Val Asp Val Ile Gly Tyr
 1085 1090 1095

Thr Ala Trp Ser Leu Met Asp Gly Phe Glu Trp His Arg Gly Tyr
 1100 1105 1110

Ser Ile Arg Arg Gly Leu Phe Tyr Val Asp Phe Leu Ser Gln Asp
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Lys Met Leu Leu Pro Lys Ser Ser Ala Leu Phe Tyr Gln Lys Leu
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Ile Glu Lys Asn Gly Phe
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<400> 29

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Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala Thr Ala Arg
 35 40 45

Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His Val Asp Gly Ala
 50 55 60

Pro His Gln Thr Ile Tyr Ser Ala Leu Met Ile Arg Ser Glu Asp Ala
 65 70 75 80

Gly Phe Val Val Ile Thr Gly Val Met Ser Arg Arg Tyr Leu Cys Met
 85 90 95

Asp Phe Arg Gly Asn Ile Phe Gly Ser His Tyr Phe Asp Pro Glu Asn
 100 105 110

Cys Arg Phe Gln His Gln Thr Leu Glu Asn Gly Tyr Asp Val Tyr His
 115 120 125

Ser Pro Gln Tyr His Phe Leu Val Ser Leu Gly Arg Ala Lys Arg Ala
 130 135 140

Phe Leu Pro Gly Met Asn Pro Pro Pro Tyr Ser Gln Phe Leu Ser Arg
 145 150 155 160

Arg Asn Glu Ile Pro Leu Ile His Phe Asn Thr Pro Ile Pro Arg Arg
 165 170 175

His Thr Gln Ser Ala Glu Asp Asp Ser Glu Arg Asp Pro Leu Asn Val
 180 185 190

Leu Lys Pro Arg Ala Arg Met Thr Pro Ala Pro Ala Ser Cys Ser Gln
 195 200 205

Glu Leu Pro Ser Ala Glu Asp Asn Ser Pro Met Ala Ser Asp Pro Leu
 210 215 220

Gly Val Val Arg Gly Gly Arg Val Asn Thr His Ala Gly Gly Thr Gly

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

485

490

495

Glu Pro Ile Phe Gly Ser Gly Asp Tyr Pro Trp Val Met Arg Asp Trp
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Leu Asn Gln Arg Asn Asn Phe Leu Leu Pro Tyr Phe Thr Glu Asp Glu
 515 520 525

Lys Lys Leu Ile Gln Gly Thr Phe Asp Phe Leu Ala Leu Ser His Tyr
 530 535 540

Thr Thr Ile Leu Val Asp Ser Glu Lys Glu Asp Pro Ile Lys Tyr Asn
 545 550 555 560

Asp Tyr Leu Glu Val Gln Glu Met Thr Asp Ile Thr Trp Leu Asn Ser
 565 570 575

Pro Ser Gln Val Ala Val Val Pro Trp Gly Leu Arg Lys Val Leu Asn
 580 585 590

Trp Leu Lys Phe Lys Tyr Gly Asp Leu Pro Met Tyr Ile Ile Ser Asn
 595 600 605

Gly Ile Asp Asp Gly Leu His Ala Glu Asp Asp Gln Leu Arg Val Tyr
 610 615 620

Tyr Met Gln Asn Tyr Ile Asn Glu Ala Leu Lys Ala His Ile Leu Asp
 625 630 635 640

Gly Ile Asn Leu Cys Gly Tyr Phe Ala Tyr Ser Phe Asn Asp Arg Thr
 645 650 655

Ala Pro Arg Phe Gly Leu Tyr Arg Tyr Ala Ala Asp Gln Phe Glu Pro
 660 665 670

Lys Ala Ser Met Lys His Tyr Arg Lys Ile Ile Asp Ser Asn Gly Phe
 675 680 685

Gly Thr Phe Pro Cys Asp Phe Ala Trp Gly Val Val Asp Asn Tyr Ile
 690 695 700

Gln Val Asp Thr Thr Leu Ser Gln Phe Thr Asp Leu Asn Val Tyr Leu
 705 710 715 720

Trp Asp Val His His Ser Lys Arg Leu Ile Lys Val Asp Gly Val Val
 725 730 735

Thr Lys Lys Arg Lys Ser Tyr Cys Val Asp Phe Ala Ala Ile Gln Pro

740

745

750

Gln Ile Ala Leu Leu Gln Glu Met His Val Thr His Phe Arg Phe Ser
755 760 765

Leu Asp Trp Ala Leu Ile Leu Pro Leu Gly Asn Gln Ser Gln Val Asn
770 775 780

His Thr Ile Leu Gln Tyr Tyr Arg Cys Met Ala Ser Glu Leu Val Arg
785 790 795 800

Val Asn Ile Thr Pro Val Val Ala Leu Trp Gln Pro Met Ala Pro Asn
805 810 815

Gln Gly Leu Pro Arg Leu Leu Ala Arg Gln Gly Ala Trp Glu Asn Pro
820 825 830

Tyr Thr Ala Leu Ala Phe Ala Glu Tyr Ala Arg Leu Cys Phe Gln Glu
835 840 845

Leu Gly His His Val Lys Leu Trp Ile Thr Met Asn Glu Pro Tyr Thr
850 855 860

Arg Asn Met Thr Tyr Ser Ala Gly His Asn Leu Leu Lys Ala His Ala
865 870 875 880

Leu Ala Trp His Val Tyr Asn Glu Lys Phe Arg His Ala Gln Asn Gly
885 890 895

Lys Ile Ser Ile Ala Leu Gln Ala Asp Trp Ile Glu Pro Ala Cys Pro
900 905 910

Phe Ser Gln Lys Asp Lys Glu Val Ala Glu Arg Val Leu Glu Phe Asp
915 920 925

Ile Gly Trp Leu Ala Glu Pro Ile Phe Gly Ser Gly Asp Tyr Pro Trp
930 935 940

Val Met Arg Asp Trp Leu Asn Gln Arg Asn Asn Phe Leu Leu Pro Tyr
945 950 955 960

Phe Thr Glu Asp Glu Lys Lys Leu Ile Gln Gly Thr Phe Asp Phe Leu
965 970 975

Ala Leu Ser His Tyr Thr Thr Ile Leu Val Asp Ser Glu Lys Glu Asp
980 985 990

Pro Ile Lys Tyr Asn Asp Tyr Leu Glu Val Gln Glu Met Thr Asp Ile

995

1000

1005

Thr Trp Leu Asn Ser Pro Ser Gln Val Ala Val Val Pro Trp Gly
1010 1015 1020

Leu Arg Lys Val Leu Asn Trp Leu Lys Phe Lys Tyr Gly Asp Leu
1025 1030 1035

Pro Met Tyr Ile Ile Ser Asn Gly Ile Asp Asp Gly Leu His Ala
1040 1045 1050

Glu Asp Asp Gln Leu Arg Val Tyr Tyr Met Gln Asn Tyr Ile Asn
1055 1060 1065

Glu Ala Leu Lys Ala His Ile Leu Asp Gly Ile Asn Leu Cys Gly
1070 1075 1080

Tyr Phe Ala Tyr Ser Phe Asn Asp Arg Thr Ala Pro Arg Phe Gly
1085 1090 1095

Leu Tyr Arg Tyr Ala Ala Asp Gln Phe Glu Pro Lys Ala Ser Met
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Lys His Tyr Arg Lys Ile Ile Asp Ser Asn Gly Phe
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<400> 30

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Cys Thr Cys Gly Gly Gly Gly Cys Cys Gly Cys Thr Gly Cys Gly Cys
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Gly Gly Thr Gly Gly Gly Gly Ala Gly Gly Ala Gly Thr Thr Cys Cys
35 40 45

Cys Cys Gly Ala Ala Ala Cys Cys Cys Gly Gly Cys Cys Gly Cys Thr
50 55 60

Ala Ala Gly Cys Gly Ala Gly Gly Cys Cys Thr Cys Cys Thr Cys Cys
65 70 75 80

Thr Cys Cys Cys Gly Cys Ala Gly Ala Thr Cys Cys Gly Ala Ala Cys
85 90 95

Gly Gly Cys Cys Thr Gly Gly Gly Cys Gly Gly Gly Gly Thr Cys Ala
 100 105 110

Cys Cys Cys Cys Gly Gly Cys Thr Gly Gly Gly Ala Cys Ala Ala Gly
 115 120 125

Ala Ala Gly Cys Cys Gly Cys Cys Gly Cys Cys Thr Gly Cys Cys Thr
 130 135 140

Gly Cys Cys Cys Gly Gly Gly Cys Cys Cys Gly Gly Gly Gly Ala Gly
 145 150 155 160

Gly Gly Gly Gly Cys Thr Gly Gly Gly Gly Cys Thr Gly Gly Gly Gly
 165 170 175

Cys Cys Gly Gly Ala Gly Gly Cys Gly Gly Gly Gly Thr Gly Thr Gly
 180 185 190

Ala Gly Thr Gly Gly Gly Thr Gly Thr Gly Thr Gly Cys Gly Gly Gly
 195 200 205

Gly Gly Gly Cys Gly Gly Ala Gly Gly Cys Thr Thr Gly Ala Thr Gly
 210 215 220

Cys Ala Ala Thr Cys Cys Cys Gly Ala Thr Ala Ala Gly Ala Ala Ala
 225 230 235 240

Thr Gly Cys Thr Cys Gly Gly Gly Thr Gly Thr Cys Thr Thr Gly Gly
 245 250 255

Gly Cys Ala Cys Cys Thr Ala Cys Cys Cys Gly Thr Gly Gly Gly Gly
 260 265 270

Cys Cys Cys Gly Thr Ala Ala Gly Gly Cys Gly Cys Thr Ala Cys Thr
 275 280 285

Ala Thr Ala Thr Ala Ala Gly Gly Cys Thr Gly Cys Cys Gly Gly Cys
 290 295 300

Cys Cys Gly Gly Ala Gly Cys Cys Gly Cys Cys Gly Cys Gly Cys Cys
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Gly Thr Cys Ala Gly Ala Gly Cys Ala Gly Gly Ala Gly Cys Gly Cys
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Thr Gly Cys Gly Thr Cys Cys Ala Gly Gly Ala Thr Cys Thr Ala Gly
 340 345 350

Gly Gly Cys Cys Ala Cys Gly Ala Cys Cys Ala Thr Cys Cys Cys Ala
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Ala Cys Cys Cys Gly Gly Cys Ala Cys Thr Cys Ala Cys Ala Gly Cys
 370 375 380

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 385 390 395 400

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 405 410 415

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 420 425 430

Gly Gly Ala Gly Cys Thr Gly Cys Gly Cys Cys Gly Ala Gly Ala Gly
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Cys Cys Cys Cys Ala Gly Gly Gly Ala Gly Gly Thr Gly Cys Cys Ala
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 465 470 475 480

Gly Gly Thr Gly Gly Thr Cys Cys Ala Cys Gly Thr Ala Thr Gly Gly
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Ala Thr Cys Cys Thr Gly Gly Cys Cys Gly Gly Cys Cys Thr Cys Thr
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 530 535 540

Thr Cys Gly Gly Ala Cys Gly Cys Gly Gly Gly Gly Cys Cys Cys Cys
 545 550 555 560

Ala Cys Gly Thr Gly Cys Ala Cys Thr Ala Cys Gly Gly Cys Thr Gly
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Gly Gly Gly Cys Gly Ala Cys Cys Cys Cys Ala Thr Cys Cys Gly Cys
 580 585 590

Cys Thr Gly Cys Gly Gly Cys Ala Cys Cys Thr Gly Thr Ala Cys Ala
 595 600 605

Cys Cys Thr Cys Cys Gly Gly Cys Cys Cys Cys Cys Ala Cys Gly Gly
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Gly Cys Thr Cys Thr Cys Cys Ala Gly Cys Thr Gly Cys Thr Thr Cys
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Cys Thr Gly Cys Gly Cys Ala Thr Cys Cys Gly Thr Gly Cys Cys Gly
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Ala Cys Gly Gly Cys Gly Thr Cys Gly Thr Gly Gly Ala Cys Thr Gly
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Cys Gly Cys Gly Cys Gly Gly Gly Cys Cys Ala Gly Ala Gly Cys
675 680 685

Gly Cys Gly Cys Ala Cys Ala Gly Thr Thr Thr Gly Cys Thr Gly Gly
690 695 700

Ala Gly Ala Thr Cys Ala Ala Gly Gly Cys Ala Gly Thr Cys Gly Cys
705 710 715 720

Thr Cys Thr Gly Cys Gly Gly Ala Cys Cys Gly Thr Gly Gly Cys Cys
725 730 735

Ala Thr Cys Ala Ala Gly Gly Gly Cys Gly Thr Gly Cys Ala Cys Ala
740 745 750

Gly Cys Gly Thr Gly Cys Gly Gly Thr Ala Cys Cys Thr Cys Thr Gly
755 760 765

Cys Ala Thr Gly Gly Gly Cys Gly Cys Cys Gly Ala Cys Gly Gly Cys
770 775 780

Ala Ala Gly Ala Thr Gly Cys Ala Gly Gly Gly Gly Cys Thr Gly Cys
785 790 795 800

Thr Thr Cys Ala Gly Thr Ala Cys Thr Cys Gly Gly Ala Gly Gly Ala
805 810 815

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820 825 830

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Ala Thr Gly Gly Cys Thr Ala Cys Ala Ala Thr Gly Thr Gly Thr Ala
850 855 860

Cys Cys Gly Ala Thr Cys Cys Gly Ala Gly Ala Ala Gly Cys Ala Cys
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Cys Gly Cys Cys Thr Cys Cys Cys Gly Gly Thr Cys Thr Cys Cys Cys
885 890 895

Thr Gly Ala Gly Cys Ala Gly Thr Gly Cys Cys Ala Ala Ala Cys Ala
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915 920 925

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930 935 940

Cys Ala Cys Thr Cys Thr Cys Thr Cys Ala Thr Thr Thr Cys Cys Thr
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Cys Thr Thr Gly Gly Ala Ala Thr Cys Thr Gly Ala Cys Ala Thr
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Gly Gly Ala Gly Ala Cys Cys Gly Ala Cys Ala Gly Cys Ala Thr
1040 1045 1050

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1055 1060 1065

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1070 1075 1080

Gly Gly Cys Cys Gly Thr Gly Ala Gly Gly Ala Gly Thr Cys Cys
1085 1090 1095

Cys Ala Gly Cys Thr Thr Thr Gly Ala Gly Ala Ala Gly Thr Ala
1100 1105 1110

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Ala	Cys	Thr	Gly	Ala	Gly	Ala	Cys	Cys	Ala	Thr	Gly	Cys	Cys	Cys
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1130						1135					1140			
Thr	Gly	Cys	Cys	Ala	Gly	Gly	Gly	Gly	Cys	Thr	Gly	Thr	Gly	Gly
1145						1150					1155			
Thr	Ala	Cys	Cys	Thr	Gly	Cys	Ala	Gly	Cys	Gly	Thr	Gly	Gly	Gly
1160						1165					1170			
Gly	Gly	Ala	Cys	Gly	Thr	Gly	Cys	Thr	Thr	Cys	Thr	Ala	Cys	Ala
1175						1180					1185			
Ala	Gly	Ala	Ala	Cys	Ala	Gly	Thr	Cys	Cys	Thr	Gly	Ala	Gly	Thr
1190						1195					1200			
Cys	Cys	Ala	Cys	Gly	Thr	Thr	Cys	Thr	Gly	Thr	Thr	Thr	Ala	Gly
1205						1210					1215			
Cys	Thr	Thr	Thr	Ala	Gly	Gly	Ala	Ala	Gly	Ala	Ala	Ala	Cys	Ala
1220						1225					1230			
Thr	Cys	Thr	Ala	Gly	Ala	Ala	Gly	Thr	Thr	Gly	Thr	Ala	Cys	Ala
1235						1240					1245			
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1250						1255					1260			
Ala	Thr	Thr	Gly	Gly	Cys	Ala	Gly	Thr	Gly	Cys	Cys	Ala	Gly	Thr
1265						1270					1275			
Thr	Thr	Cys	Thr	Ala	Gly	Cys	Cys	Ala	Ala	Thr	Ala	Gly	Ala	Cys
1280						1285					1290			
Thr	Thr	Gly	Thr	Cys	Thr	Gly	Ala	Thr	Cys	Ala	Thr	Ala	Ala	Cys
1295						1300					1305			
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1310						1315					1320			
Cys	Thr	Thr	Gly	Cys	Cys	Cys	Ala	Gly	Cys	Thr	Gly	Cys	Thr	Gly
1325						1330					1335			
Cys	Cys	Thr	Gly	Gly	Gly	Cys	Cys	Cys	Cys	Cys	Ala	Thr	Thr	Cys
1340						1345					1350			

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 Gly Cys Thr Gly Gly Ala Cys Ala Ala Gly Cys Thr Gly Cys Thr
 1370 1375 1380
 Gly Cys Ala Cys Thr Gly Thr Cys Thr Cys Ala Gly Thr Thr Cys
 1385 1390 1395
 Thr Gly Cys Thr Thr Gly Ala Ala Thr Ala Cys Cys Thr Cys Cys
 1400 1405 1410
 Ala Thr Cys Gly Ala Thr Gly Gly Gly Gly Ala Ala Cys Thr Cys
 1415 1420 1425
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 Ala Thr Thr Cys Thr Thr Ala Thr Gly Thr Cys Ala Ala Gly Cys
 1445 1450 1455
 Thr Gly Ala Ala Ala Thr Thr Cys Thr Cys Thr Ala Ala Thr Thr
 1460 1465 1470
 Thr Thr Thr Thr Cys Thr Cys Ala Thr Cys Ala Cys Thr Thr Cys
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PhoenixTemp63617.tmp.txt

Thr	Ala	Thr	Ala	Thr	Cys	Thr	Cys	Thr	Ala	Cys	Thr	Thr	Cys	Cys
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1610						1615					1620			
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1625						1630					1635			
Ala	Gly	Gly	Cys	Cys	Ala	Gly	Ala	Ala	Cys	Thr	Gly	Ala	Cys	Thr
1640						1645					1650			
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1655						1660					1665			
Cys	Ala	Cys	Cys	Ala	Gly	Gly	Cys	Thr	Thr	Cys	Ala	Gly	Gly	Ala
1670						1675					1680			
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1685						1690					1695			
Ala	Gly	Cys	Cys	Cys	Cys	Ala	Cys	Thr	Cys	Cys	Ala	Gly	Cys	Cys
1700						1705					1710			
Cys	Thr	Gly	Gly	Gly	Ala	Cys	Ala	Ala	Cys	Thr	Thr	Gly	Ala	Gly
1715						1720					1725			
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1730						1735					1740			
Cys	Ala	Gly	Thr	Thr	Cys	Thr	Gly	Thr	Cys	Ala	Thr	Gly	Gly	Ala
1745						1750					1755			
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1760						1765					1770			
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1775						1780					1785			
Thr	Gly	Thr	Cys	Ala	Cys	Cys	Thr	Gly	Cys	Thr	Thr	Cys	Cys	Ala
1790						1795					1800			
Thr	Cys	Thr	Cys	Cys	Cys	Ala	Gly	Cys	Cys	Cys	Ala	Cys	Cys	Ala
1805						1810					1815			
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1820						1825					1830			

PhoenixTemp63617.tmp.txt

Cys	Ala	Cys	Ala	Thr	Gly	Cys	Cys	Thr	Cys	Cys	Cys	Cys	Ala	Thr
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Gly	Gly	Ala	Thr	Thr	Gly	Gly	Gly	Gly	Cys	Cys	Thr	Cys	Cys	Cys
1850						1855					1860			
Ala	Gly	Gly	Cys	Cys	Cys	Cys	Cys	Cys	Ala	Cys	Cys	Thr	Thr	Ala
1865						1870					1875			
Thr	Gly	Thr	Cys	Ala	Ala	Cys	Cys	Thr	Gly	Cys	Ala	Cys	Thr	Thr
1880						1885					1890			
Cys	Thr	Thr	Gly	Thr	Thr	Cys	Ala	Ala	Ala	Ala	Ala	Thr	Cys	Ala
1895						1900					1905			
Gly	Gly	Ala	Ala	Ala	Ala	Gly	Ala	Ala	Ala	Ala	Gly	Ala	Thr	Thr
1910						1915					1920			
Thr	Gly	Ala	Ala	Gly	Ala	Cys	Cys	Cys	Cys	Ala	Ala	Gly	Thr	Cys
1925						1930					1935			
Thr	Thr	Gly	Thr	Cys	Ala	Ala	Thr	Ala	Ala	Cys	Thr	Thr	Gly	Cys
1940						1945					1950			
Thr	Gly	Thr	Gly	Thr	Gly	Gly	Ala	Ala	Gly	Cys	Ala	Gly	Cys	Gly
1955						1960					1965			
Gly	Gly	Gly	Gly	Ala	Ala	Gly	Ala	Cys	Cys	Thr	Ala	Gly	Ala	Ala
1970						1975					1980			
Cys	Cys	Cys	Thr	Thr	Thr	Cys	Cys	Cys	Cys	Ala	Gly	Cys	Ala	Cys
1985						1990					1995			
Thr	Thr	Gly	Gly	Thr	Thr	Thr	Thr	Cys	Cys	Ala	Ala	Cys	Ala	Thr
2000						2005					2010			
Gly	Ala	Thr	Ala	Thr	Thr	Thr	Ala	Thr	Gly	Ala	Gly	Thr	Ala	Ala
2015						2020					2025			
Thr	Thr	Thr	Ala	Thr	Thr	Thr	Thr	Gly	Ala	Thr	Ala	Thr	Gly	Thr
2030						2035					2040			
Ala	Cys	Ala	Thr	Cys	Thr	Cys	Thr	Thr	Ala	Thr	Thr	Thr	Thr	Cys
2045						2050					2055			
Thr	Thr	Ala	Cys	Ala	Thr	Thr	Ala	Thr	Thr	Thr	Ala	Thr	Gly	Cys
2060						2065					2070			

PhoenixTemp63617.tmp.txt

Cys Cys Cys Cys Ala Ala Ala Thr Thr Ala Thr Ala Thr Thr Thr
2075 2080 2085

Ala Thr Gly Thr Ala Thr Gly Thr Ala Ala Gly Thr Gly Ala Gly
2090 2095 2100

Gly Thr Thr Thr Gly Thr Thr Thr Thr Gly Thr Ala Thr Ala Thr
2105 2110 2115

Thr Ala Ala Ala Ala Thr Gly Gly Ala Gly Thr Thr Thr Gly Thr
2120 2125 2130

Thr Thr Gly Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
2135 2140 2145

Ala Ala Ala Ala Ala Ala Ala Ala Ala
2150 2155

<210> 31
<211> 216
<212> PRT
<213> Homo Sapiens

<400> 31

Met Arg Ser Gly Cys Val Val Val His Val Trp Ile Leu Ala Gly Leu
1 5 10 15

Trp Leu Ala Val Ala Gly Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro
20 25 30

His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg His Leu Tyr
35 40 45

Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala
50 55 60

Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser Ala His Ser Leu Leu
65 70 75 80

Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys Gly Val His
85 90 95

Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met Gln Gly Leu
100 105 110

Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro
115 120 125

PhoenixTemp63617.tmp.txt

Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu Pro Val Ser
130 135 140

Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu
145 150 155 160

Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro Glu Glu Pro
165 170 175

Glu Asp Leu Arg Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu
180 185 190

Glu Thr Asp Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu Glu Ala
195 200 205

Val Arg Ser Pro Ser Phe Glu Lys
210 215

<210> 32
<211> 940
<212> PRT
<213> Homo Sapiens

<400> 32

Cys Thr Gly Thr Cys Ala Gly Cys Thr Gly Ala Gly Gly Ala Thr Cys
1 5 10 15

Cys Ala Gly Cys Cys Gly Ala Ala Ala Gly Ala Gly Gly Ala Gly Cys
20 25 30

Cys Ala Gly Gly Cys Ala Cys Thr Cys Ala Gly Gly Cys Cys Ala Cys
35 40 45

Cys Thr Gly Ala Gly Thr Cys Thr Ala Cys Thr Cys Ala Cys Cys Thr
50 55 60

Gly Gly Ala Cys Ala Ala Cys Thr Gly Gly Ala Ala Thr Cys Thr Gly
65 70 75 80

Gly Cys Ala Cys Cys Ala Ala Thr Thr Cys Thr Ala Ala Ala Cys Cys
85 90 95

Ala Cys Thr Cys Ala Gly Cys Thr Thr Cys Thr Cys Cys Gly Ala Gly
100 105 110

Cys Thr Cys Ala Cys Ala Cys Cys Cys Gly Gly Ala Gly Ala Thr
115 120 125

PhoenixTemp63617.tmp.txt

Cys Ala Cys Cys Thr Gly Ala Gly Gly Ala Cys Cys Cys Gly Ala Gly
 130 135 140

Cys Cys Ala Thr Thr Gly Ala Thr Gly Gly Ala Cys Thr Cys Gly Gly
 145 150 155 160

Ala Cys Gly Ala Gly Ala Cys Cys Gly Gly Gly Thr Thr Cys Gly Ala
 165 170 175

Gly Cys Ala Cys Thr Cys Ala Gly Gly Ala Cys Thr Gly Thr Gly Gly
 180 185 190

Gly Thr Thr Thr Cys Thr Gly Thr Gly Cys Thr Gly Gly Cys Thr Gly
 195 200 205

Gly Thr Cys Thr Thr Cys Thr Gly Cys Thr Gly Gly Gly Ala Gly Cys
 210 215 220

Cys Thr Gly Cys Cys Ala Gly Gly Cys Ala Cys Ala Cys Cys Cys Cys
 225 230 235 240

Ala Thr Cys Cys Cys Thr Gly Ala Cys Thr Cys Cys Ala Gly Thr Cys
 245 250 255

Cys Thr Cys Thr Cys Cys Thr Gly Cys Ala Ala Thr Thr Cys Gly Gly
 260 265 270

Gly Gly Gly Cys Cys Ala Ala Gly Thr Cys Cys Gly Gly Cys Ala Gly
 275 280 285

Cys Gly Gly Thr Ala Cys Cys Thr Cys Thr Ala Cys Ala Cys Ala Gly
 290 295 300

Ala Thr Gly Ala Thr Gly Cys Cys Cys Ala Gly Cys Ala Gly Ala Cys
 305 310 315 320

Ala Gly Ala Ala Gly Cys Cys Cys Ala Cys Cys Thr Gly Gly Ala Gly
 325 330 335

Ala Thr Cys Ala Gly Gly Gly Ala Gly Gly Ala Thr Gly Gly Gly Ala
 340 345 350

Cys Gly Gly Thr Gly Gly Gly Gly Gly Gly Cys Gly Cys Thr Gly Cys
 355 360 365

Thr Gly Ala Cys Cys Ala Gly Ala Gly Cys Cys Cys Cys Gly Ala Ala
 370 375 380

PhoenixTemp63617.tmp.txt

Ala Gly Thr Cys Thr Cys Cys Thr Gly Cys Ala Gly Cys Thr Gly Ala
385 390 395 400

Ala Ala Gly Cys Cys Thr Thr Gly Ala Ala Gly Cys Cys Gly Gly Gly
405 410 415

Ala Gly Thr Thr Ala Thr Thr Cys Ala Ala Ala Thr Cys Thr Thr Gly
420 425 430

Gly Gly Ala Gly Thr Cys Ala Ala Gly Ala Cys Ala Thr Cys Cys Ala
435 440 445

Gly Gly Thr Thr Cys Cys Thr Gly Thr Gly Cys Cys Ala Gly Cys Gly
450 455 460

Gly Cys Cys Ala Gly Ala Thr Gly Gly Gly Gly Cys Cys Cys Thr Gly
465 470 475 480

Thr Ala Thr Gly Gly Ala Thr Cys Gly Cys Thr Cys Cys Ala Cys Thr
485 490 495

Thr Thr Gly Ala Cys Cys Cys Thr Gly Ala Gly Gly Cys Cys Thr Gly
500 505 510

Cys Ala Gly Cys Thr Thr Cys Cys Gly Gly Gly Ala Gly Cys Thr Gly
515 520 525

Cys Thr Thr Cys Thr Thr Gly Ala Gly Gly Ala Cys Gly Gly Ala Thr
530 535 540

Ala Cys Ala Ala Thr Gly Thr Thr Thr Ala Cys Cys Ala Gly Thr Cys
545 550 555 560

Cys Gly Ala Ala Gly Cys Cys Cys Ala Cys Gly Gly Cys Cys Thr Cys
565 570 575

Cys Cys Gly Cys Thr Gly Cys Ala Cys Cys Thr Gly Cys Cys Ala Gly
580 585 590

Gly Gly Ala Ala Cys Ala Ala Gly Thr Cys Cys Cys Cys Ala Cys Ala
595 600 605

Cys Cys Gly Gly Gly Ala Cys Cys Cys Thr Gly Cys Ala Cys Cys Cys
610 615 620

Cys Gly Ala Gly Gly Ala Cys Cys Ala Gly Cys Thr Cys Gly Cys Thr
625 630 635 640

PhoenixTemp63617.tmp.txt

Thr Cys Cys Thr Gly Cys Cys Ala Cys Thr Ala Cys Cys Ala Gly Gly
 645 650 655
 Cys Cys Thr Gly Cys Cys Cys Cys Cys Cys Gly Cys Ala Cys Thr Cys
 660 665 670
 Cys Cys Gly Gly Ala Gly Cys Cys Ala Cys Cys Cys Gly Gly Ala Ala
 675 680 685
 Thr Cys Cys Thr Gly Gly Cys Cys Cys Cys Cys Cys Ala Gly Cys Cys
 690 695 700
 Cys Cys Cys Cys Gly Ala Thr Gly Thr Gly Gly Cys Thr Cys Cys
 705 710 715 720
 Thr Cys Gly Gly Ala Cys Cys Cys Thr Cys Thr Gly Ala Gly Cys Ala
 725 730 735
 Thr Gly Gly Thr Gly Gly Gly Ala Cys Cys Thr Thr Cys Cys Cys Ala
 740 745 750
 Gly Gly Gly Cys Cys Gly Ala Ala Gly Cys Cys Cys Cys Ala Gly Cys
 755 760 765
 Thr Ala Cys Gly Cys Thr Thr Cys Cys Thr Gly Ala Ala Gly Cys Cys
 770 775 780
 Ala Gly Ala Gly Gly Cys Thr Gly Thr Thr Thr Ala Cys Thr Ala Thr
 785 790 795 800
 Gly Ala Cys Ala Thr Cys Thr Cys Cys Thr Cys Thr Thr Thr Ala Thr
 805 810 815
 Thr Thr Ala Thr Thr Ala Gly Gly Thr Thr Ala Thr Thr Thr Ala Thr
 820 825 830
 Cys Thr Thr Ala Thr Thr Thr Ala Thr Thr Thr Thr Thr Thr Thr Ala
 835 840 845
 Thr Thr Thr Thr Thr Cys Thr Thr Ala Cys Thr Thr Gly Ala Gly Ala
 850 855 860
 Thr Ala Ala Thr Ala Ala Ala Gly Ala Gly Thr Thr Cys Cys Ala Gly
 865 870 875 880
 Ala Gly Gly Ala Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
 885 890 895

PhoenixTemp63617.tmp.txt

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
900 905 910

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
915 920 925

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
930 935 940

<210> 33
<211> 209
<212> PRT
<213> Homo Sapiens

<400> 33

Met Asp Ser Asp Glu Thr Gly Phe Glu His Ser Gly Leu Trp Val Ser
1 5 10 15

Val Leu Ala Gly Leu Leu Leu Gly Ala Cys Gln Ala His Pro Ile Pro
20 25 30

Asp Ser Ser Pro Leu Leu Gln Phe Gly Gly Gln Val Arg Gln Arg Tyr
35 40 45

Leu Tyr Thr Asp Asp Ala Gln Gln Thr Glu Ala His Leu Glu Ile Arg
50 55 60

Glu Asp Gly Thr Val Gly Gly Ala Ala Asp Gln Ser Pro Glu Ser Leu
65 70 75 80

Leu Gln Leu Lys Ala Leu Lys Pro Gly Val Ile Gln Ile Leu Gly Val
85 90 95

Lys Thr Ser Arg Phe Leu Cys Gln Arg Pro Asp Gly Ala Leu Tyr Gly
100 105 110

Ser Leu His Phe Asp Pro Glu Ala Cys Ser Phe Arg Glu Leu Leu Leu
115 120 125

Glu Asp Gly Tyr Asn Val Tyr Gln Ser Glu Ala His Gly Leu Pro Leu
130 135 140

His Leu Pro Gly Asn Lys Ser Pro His Arg Asp Pro Ala Pro Arg Gly
145 150 155 160

Pro Ala Arg Phe Leu Pro Leu Pro Gly Leu Pro Pro Ala Leu Pro Glu
165 170 175

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

180

185

190

Pro Leu Ser Met Val Gly Pro Ser Gln Gly Arg Ser Pro Ser Tyr Ala
 195 200 205

Ser

<210> 34
 <211> 3018
 <212> PRT
 <213> Homo Sapiens

<400> 34

Cys Gly Gly Cys Ala Ala Ala Ala Ala Gly Gly Ala Gly Gly Gly Ala
 1 5 10 15

Ala Thr Cys Cys Ala Gly Thr Cys Thr Ala Gly Gly Ala Thr Cys Cys
 20 25 30

Thr Cys Ala Cys Ala Cys Cys Ala Gly Cys Thr Ala Cys Thr Thr Gly
 35 40 45

Cys Ala Ala Gly Gly Gly Ala Gly Ala Ala Gly Gly Ala Ala Ala Ala
 50 55 60

Gly Gly Cys Cys Ala Gly Thr Ala Ala Gly Gly Cys Cys Thr Gly Gly
 65 70 75 80

Gly Cys Cys Ala Gly Gly Ala Gly Ala Gly Thr Cys Cys Cys Gly Ala
 85 90 95

Cys Ala Gly Gly Ala Gly Thr Gly Thr Cys Ala Gly Gly Thr Thr Thr
 100 105 110

Cys Ala Ala Thr Cys Thr Cys Ala Gly Cys Ala Cys Cys Ala Gly Cys
 115 120 125

Cys Ala Cys Thr Cys Ala Gly Ala Gly Cys Ala Gly Gly Gly Cys Ala
 130 135 140

Cys Gly Ala Thr Gly Thr Thr Gly Gly Gly Gly Cys Cys Cys Gly
 145 150 155 160

Cys Cys Thr Cys Ala Gly Gly Cys Thr Cys Thr Gly Gly Gly Thr Cys
 165 170 175

Thr Gly Thr Gly Cys Cys Thr Thr Gly Thr Gly Cys Ala Gly Cys Gly
 180 185 190

Thr Cys Thr Gly Cys Ala Gly Cys Ala Thr Gly Ala Gly Cys Gly Thr
 195 200 205
 Cys Cys Thr Cys Ala Gly Ala Gly Cys Cys Thr Ala Thr Cys Cys Cys
 210 215 220
 Ala Ala Thr Gly Cys Cys Thr Cys Cys Cys Cys Ala Cys Thr Gly Cys
 225 230 235 240
 Thr Cys Gly Gly Cys Thr Cys Cys Ala Gly Cys Thr Gly Gly Gly Gly
 245 250 255
 Thr Gly Gly Cys Cys Thr Gly Ala Thr Cys Cys Ala Cys Cys Thr Gly
 260 265 270
 Thr Ala Cys Ala Cys Ala Gly Cys Cys Ala Cys Ala Gly Cys Cys Ala
 275 280 285
 Gly Gly Ala Ala Cys Ala Gly Cys Thr Ala Cys Cys Ala Cys Cys Thr
 290 295 300
 Gly Cys Ala Gly Ala Thr Cys Cys Ala Cys Ala Ala Gly Ala Ala Thr
 305 310 315 320
 Gly Gly Cys Cys Ala Thr Gly Thr Gly Gly Ala Thr Gly Gly Cys Gly
 325 330 335
 Cys Ala Cys Cys Cys Cys Ala Thr Cys Ala Gly Ala Cys Cys Ala Thr
 340 345 350
 Cys Thr Ala Cys Ala Gly Thr Gly Cys Cys Cys Thr Gly Ala Thr Gly
 355 360 365
 Ala Thr Cys Ala Gly Ala Thr Cys Ala Gly Ala Gly Gly Ala Thr Gly
 370 375 380
 Cys Thr Gly Gly Cys Thr Thr Thr Gly Thr Gly Gly Thr Gly Ala Thr
 385 390 395 400
 Thr Ala Cys Ala Gly Gly Thr Gly Thr Gly Ala Thr Gly Ala Gly Cys
 405 410 415
 Ala Gly Ala Ala Gly Ala Thr Ala Cys Cys Thr Cys Thr Gly Cys Ala
 420 425 430
 Thr Gly Gly Ala Thr Thr Thr Cys Ala Gly Ala Gly Gly Cys Ala Ala
 435 440 445

PhoenixTemp63617.tmp.txt

Cys Ala Thr Thr Thr Thr Thr Gly Gly Ala Thr Cys Ala Cys Ala Cys
 450 455 460
 Thr Ala Thr Thr Thr Cys Gly Ala Cys Cys Cys Gly Gly Ala Gly Ala
 465 470 475 480
 Ala Cys Thr Gly Cys Ala Gly Gly Thr Thr Cys Cys Ala Ala Cys Ala
 485 490 495
 Cys Cys Ala Gly Ala Cys Gly Cys Thr Gly Gly Ala Ala Ala Ala Cys
 500 505 510
 Gly Gly Gly Thr Ala Cys Gly Ala Cys Gly Thr Cys Thr Ala Cys Cys
 515 520 525
 Ala Cys Thr Cys Thr Cys Cys Thr Cys Ala Gly Thr Ala Thr Cys Ala
 530 535 540
 Cys Thr Thr Cys Cys Thr Gly Gly Thr Cys Ala Gly Thr Cys Thr Gly
 545 550 555 560
 Gly Gly Cys Cys Gly Gly Gly Cys Gly Ala Ala Gly Ala Gly Ala Gly
 565 570 575
 Cys Cys Thr Thr Cys Cys Thr Gly Cys Cys Ala Gly Gly Cys Ala Thr
 580 585 590
 Gly Ala Ala Cys Cys Cys Ala Cys Cys Cys Cys Gly Thr Ala Cys
 595 600 605
 Thr Cys Cys Cys Ala Gly Thr Thr Cys Cys Thr Gly Thr Cys Cys Cys
 610 615 620
 Gly Gly Ala Gly Gly Ala Ala Cys Gly Ala Gly Ala Thr Cys Cys Cys
 625 630 635 640
 Cys Cys Thr Ala Ala Thr Thr Cys Ala Cys Thr Thr Cys Ala Ala Cys
 645 650 655
 Ala Cys Cys Cys Cys Cys Ala Thr Ala Cys Cys Ala Cys Gly Gly Cys
 660 665 670
 Gly Gly Cys Ala Cys Ala Cys Cys Cys Gly Gly Ala Gly Cys Gly Cys
 675 680 685
 Cys Gly Ala Gly Gly Ala Cys Gly Ala Cys Thr Cys Gly Gly Ala Gly
 690 695 700

Cys Gly Gly Gly Ala Cys Cys Cys Cys Cys Thr Gly Ala Ala Cys Gly
705 710 715 720

Thr Gly Cys Thr Gly Ala Ala Gly Cys Cys Cys Cys Gly Gly Gly Cys
725 730 735

Cys Cys Gly Gly Ala Thr Gly Ala Cys Cys Cys Cys Gly Gly Cys Cys
740 745 750

Cys Cys Gly Gly Cys Cys Thr Cys Cys Thr Gly Thr Thr Cys Ala Cys
755 760 765

Ala Gly Gly Ala Gly Cys Thr Cys Cys Cys Gly Ala Gly Cys Gly Cys
770 775 780

Cys Gly Ala Gly Gly Ala Cys Ala Ala Cys Ala Gly Cys Cys Cys Gly
785 790 795 800

Ala Thr Gly Gly Cys Cys Ala Gly Thr Gly Ala Cys Cys Cys Ala Thr
805 810 815

Thr Ala Gly Gly Gly Gly Thr Gly Gly Thr Cys Ala Gly Gly Gly Gly
820 825 830

Cys Gly Gly Thr Cys Gly Ala Gly Thr Gly Ala Ala Cys Ala Cys Gly
835 840 845

Cys Ala Cys Gly Cys Thr Gly Gly Gly Gly Gly Ala Ala Cys Gly Gly
850 855 860

Gly Cys Cys Cys Gly Gly Ala Ala Gly Gly Cys Thr Gly Cys Cys Gly
865 870 875 880

Cys Cys Cys Cys Thr Thr Cys Gly Cys Cys Ala Ala Gly Thr Thr Cys
885 890 895

Ala Thr Cys Thr Ala Gly Gly Gly Thr Cys Gly Cys Thr Gly Gly Ala
900 905 910

Ala Gly Gly Gly Cys Ala Cys Cys Cys Thr Cys Thr Thr Thr Ala Ala
915 920 925

Cys Cys Cys Ala Thr Cys Cys Cys Thr Cys Ala Gly Cys Ala Ala Ala
930 935 940

Cys Gly Cys Ala Gly Cys Thr Cys Thr Thr Cys Cys Cys Ala Ala Gly
945 950 955 960

Gly Ala Cys Cys Ala Gly Gly Thr Cys Cys Cys Thr Thr Gly Ala Cys
 965 970 975

Gly Thr Thr Cys Cys Gly Ala Gly Gly Ala Thr Gly Gly Gly Ala Ala
 980 985 990

Ala Gly Gly Thr Gly Ala Cys Ala Gly Gly Gly Gly Cys Ala Thr Gly
 995 1000 1005

Thr Ala Thr Gly Gly Ala Ala Thr Thr Thr Gly Cys Thr Gly Cys
 1010 1015 1020

Thr Thr Cys Thr Cys Thr Gly Gly Gly Gly Thr Cys Cys Cys Thr
 1025 1030 1035

Thr Cys Cys Ala Cys Ala Gly Gly Ala Gly Gly Thr Cys Cys Thr
 1040 1045 1050

Gly Thr Gly Ala Gly Ala Ala Cys Cys Ala Ala Cys Cys Thr Thr
 1055 1060 1065

Thr Gly Ala Gly Gly Cys Cys Cys Ala Ala Gly Thr Cys Ala Thr
 1070 1075 1080

Gly Gly Gly Gly Thr Thr Thr Cys Ala Cys Cys Gly Cys Cys Thr
 1085 1090 1095

Thr Cys Cys Thr Cys Ala Cys Thr Cys Cys Ala Thr Ala Thr Ala
 1100 1105 1110

Gly Ala Ala Cys Ala Cys Cys Thr Thr Thr Cys Cys Cys Ala Ala
 1115 1120 1125

Thr Ala Gly Gly Ala Ala Ala Cys Cys Cys Cys Ala Ala Cys Ala
 1130 1135 1140

Gly Gly Thr Ala Ala Ala Cys Thr Ala Gly Ala Ala Ala Thr Thr
 1145 1150 1155

Thr Cys Cys Cys Cys Thr Thr Cys Ala Thr Gly Ala Ala Gly Gly
 1160 1165 1170

Thr Ala Gly Ala Gly Ala Gly Ala Ala Gly Gly Gly Gly Thr Cys
 1175 1180 1185

Thr Cys Thr Cys Cys Cys Ala Ala Cys Ala Thr Ala Thr Thr Thr
 1190 1195 1200

PhoenixTemp63617.tmp.txt

Cys Thr Cys Thr Thr Cys Cys Thr Thr Gly Thr Gly Cys Cys Thr
 1205 1210 1215
 Cys Thr Cys Cys Thr Cys Thr Thr Thr Ala Thr Cys Ala Cys Thr
 1220 1225 1230
 Thr Thr Thr Ala Ala Gly Cys Ala Thr Ala Ala Ala Ala Ala Ala
 1235 1240 1245
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
 1250 1255 1260
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly Cys Ala Gly
 1265 1270 1275
 Thr Gly Gly Gly Thr Thr Cys Cys Thr Gly Ala Gly Cys Thr Cys
 1280 1285 1290
 Ala Ala Gly Ala Cys Thr Thr Thr Gly Ala Ala Gly Gly Thr Gly
 1295 1300 1305
 Thr Ala Gly Gly Gly Ala Ala Gly Ala Gly Gly Ala Ala Ala Thr
 1310 1315 1320
 Cys Gly Gly Ala Gly Ala Thr Cys Cys Cys Ala Gly Ala Ala Gly
 1325 1330 1335
 Cys Thr Thr Cys Thr Cys Cys Ala Cys Thr Gly Cys Cys Cys Thr
 1340 1345 1350
 Ala Thr Gly Cys Ala Thr Thr Thr Ala Thr Gly Thr Thr Ala Gly
 1355 1360 1365
 Ala Thr Gly Cys Cys Cys Cys Gly Ala Thr Cys Cys Cys Ala Cys
 1370 1375 1380
 Thr Gly Gly Cys Ala Thr Thr Thr Gly Ala Gly Thr Gly Thr Gly
 1385 1390 1395
 Cys Ala Ala Ala Cys Cys Thr Thr Gly Ala Cys Ala Thr Thr Ala
 1400 1405 1410
 Ala Cys Ala Gly Cys Thr Gly Ala Ala Thr Gly Gly Gly Gly Cys
 1415 1420 1425
 Ala Ala Gly Thr Thr Gly Ala Thr Gly Ala Ala Ala Ala Cys Ala
 1430 1435 1440

PhoenixTemp63617.tmp.txt

Cys	Thr	Ala	Cys	Thr	Thr	Thr	Cys	Ala	Ala	Gly	Cys	Cys	Thr	Thr
1445						1450					1455			
Cys	Gly	Thr	Thr	Cys	Thr	Thr	Cys	Cys	Thr	Thr	Gly	Ala	Gly	Cys
1460						1465					1470			
Ala	Thr	Cys	Thr	Cys	Thr	Gly	Gly	Gly	Gly	Ala	Ala	Gly	Ala	Gly
1475						1480					1485			
Cys	Thr	Gly	Thr	Cys	Ala	Ala	Ala	Ala	Gly	Ala	Cys	Thr	Gly	Gly
1490						1495					1500			
Thr	Gly	Gly	Thr	Ala	Gly	Gly	Cys	Thr	Gly	Gly	Thr	Gly	Ala	Ala
1505						1510					1515			
Ala	Ala	Cys	Thr	Thr	Gly	Ala	Cys	Ala	Gly	Cys	Thr	Ala	Gly	Ala
1520						1525					1530			
Cys	Thr	Thr	Gly	Ala	Thr	Gly	Cys	Thr	Thr	Gly	Cys	Thr	Gly	Ala
1535						1540					1545			
Ala	Ala	Thr	Gly	Ala	Gly	Gly	Cys	Ala	Gly	Gly	Ala	Ala	Thr	Cys
1550						1555					1560			
Ala	Thr	Ala	Ala	Thr	Ala	Gly	Ala	Ala	Ala	Ala	Cys	Thr	Cys	Ala
1565						1570					1575			
Gly	Cys	Cys	Thr	Cys	Cys	Cys	Thr	Ala	Cys	Ala	Gly	Gly	Gly	Thr
1580						1585					1590			
Gly	Ala	Gly	Cys	Ala	Cys	Cys	Thr	Thr	Cys	Thr	Gly	Thr	Cys	Thr
1595						1600					1605			
Cys	Gly	Cys	Thr	Gly	Thr	Cys	Thr	Cys	Cys	Cys	Thr	Cys	Thr	Gly
1610						1615					1620			
Thr	Gly	Cys	Ala	Gly	Cys	Cys	Ala	Cys	Ala	Gly	Cys	Cys	Ala	Gly
1625						1630					1635			
Ala	Gly	Gly	Gly	Cys	Cys	Cys	Ala	Gly	Ala	Ala	Thr	Gly	Gly	Cys
1640						1645					1650			
Cys	Cys	Cys	Ala	Cys	Thr	Cys	Thr	Gly	Thr	Thr	Cys	Cys	Cys	Ala
1655						1660					1665			
Ala	Gly	Cys	Ala	Gly	Thr	Thr	Cys	Ala	Thr	Gly	Ala	Thr	Ala	Cys
1670						1675					1680			

PhoenixTemp63617.tmp.txt

Ala	Gly	Cys	Cys	Thr	Cys	Ala	Cys	Cys	Thr	Thr	Thr	Thr	Gly	Gly
1685						1690						1695		
Cys	Cys	Cys	Cys	Ala	Thr	Cys	Thr	Cys	Thr	Gly	Gly	Thr	Thr	Thr
1700						1705					1710			
Thr	Thr	Gly	Ala	Ala	Ala	Ala	Thr	Thr	Thr	Gly	Gly	Thr	Cys	Thr
1715						1720					1725			
Ala	Ala	Gly	Gly	Ala	Ala	Thr	Ala	Ala	Ala	Thr	Ala	Gly	Cys	Thr
1730						1735					1740			
Thr	Thr	Thr	Ala	Cys	Ala	Cys	Thr	Gly	Gly	Cys	Thr	Cys	Ala	Cys
1745						1750					1755			
Gly	Ala	Ala	Ala	Ala	Thr	Cys	Thr	Gly	Cys	Cys	Cys	Thr	Gly	Cys
1760						1765					1770			
Thr	Ala	Gly	Ala	Ala	Thr	Thr	Thr	Gly	Cys	Thr	Thr	Thr	Thr	Cys
1775						1780					1785			
Ala	Ala	Ala	Ala	Thr	Gly	Gly	Ala	Ala	Ala	Thr	Ala	Ala	Ala	Thr
1790						1795					1800			
Thr	Cys	Cys	Ala	Ala	Cys	Thr	Cys	Thr	Cys	Cys	Thr	Ala	Ala	Gly
1805						1810					1815			
Ala	Gly	Gly	Cys	Ala	Thr	Thr	Thr	Ala	Ala	Thr	Thr	Ala	Ala	Gly
1820						1825					1830			
Gly	Cys	Thr	Cys	Thr	Ala	Cys	Thr	Thr	Cys	Cys	Ala	Gly	Gly	Thr
1835						1840					1845			
Thr	Gly	Ala	Gly	Thr	Ala	Gly	Gly	Ala	Ala	Thr	Cys	Cys	Ala	Thr
1850						1855					1860			
Thr	Cys	Thr	Gly	Ala	Ala	Cys	Ala	Ala	Ala	Cys	Thr	Ala	Cys	Ala
1865						1870					1875			
Ala	Ala	Ala	Ala	Thr	Gly	Thr	Gly	Ala	Cys	Thr	Gly	Gly	Gly	Ala
1880						1885					1890			
Ala	Gly	Gly	Gly	Gly	Gly	Cys	Thr	Thr	Thr	Gly	Ala	Gly	Ala	Gly
1895						1900					1905			
Ala	Cys	Thr	Gly	Gly	Gly	Ala	Cys	Thr	Gly	Cys	Thr	Cys	Thr	Gly
1910						1915					1920			

PhoenixTemp63617.tmp.txt

Gly	Gly	Thr	Thr	Ala	Gly	Gly	Thr	Thr	Thr	Thr	Cys	Thr	Gly	Thr
1925						1930					1935			
Gly	Gly	Ala	Cys	Thr	Gly	Ala	Ala	Ala	Ala	Ala	Thr	Cys	Gly	Thr
1940						1945					1950			
Gly	Thr	Cys	Cys	Thr	Thr	Thr	Thr	Cys	Thr	Cys	Thr	Ala	Ala	Ala
1955						1960					1965			
Thr	Gly	Ala	Ala	Gly	Thr	Gly	Gly	Cys	Ala	Thr	Cys	Ala	Ala	Gly
1970						1975					1980			
Gly	Ala	Cys	Thr	Cys	Ala	Gly	Gly	Gly	Gly	Gly	Ala	Ala	Ala	Gly
1985						1990					1995			
Ala	Ala	Ala	Thr	Cys	Ala	Gly	Gly	Gly	Gly	Ala	Cys	Ala	Thr	Gly
2000						2005					2010			
Thr	Thr	Ala	Thr	Ala	Gly	Ala	Ala	Gly	Thr	Thr	Ala	Thr	Gly	Ala
2015						2020					2025			
Ala	Ala	Ala	Gly	Ala	Cys	Ala	Ala	Cys	Cys	Ala	Cys	Ala	Thr	Gly
2030						2035					2040			
Gly	Thr	Cys	Ala	Gly	Gly	Cys	Thr	Cys	Thr	Thr	Gly	Thr	Cys	Thr
2045						2050					2055			
Gly	Thr	Gly	Gly	Thr	Cys	Thr	Cys	Thr	Ala	Gly	Gly	Gly	Cys	Thr
2060						2065					2070			
Cys	Thr	Gly	Cys	Ala	Gly	Cys	Ala	Gly	Cys	Ala	Gly	Thr	Gly	Gly
2075						2080					2085			
Cys	Thr	Cys	Thr	Thr	Cys	Gly	Ala	Thr	Thr	Ala	Gly	Thr	Thr	Ala
2090						2095					2100			
Ala	Ala	Ala	Cys	Thr	Cys	Thr	Cys	Cys	Thr	Ala	Gly	Gly	Cys	Thr
2105						2110					2115			
Gly	Ala	Cys	Ala	Cys	Ala	Thr	Cys	Thr	Gly	Gly	Gly	Thr	Cys	Thr
2120						2125					2130			
Cys	Ala	Ala	Thr	Cys	Cys	Cys	Cys	Thr	Thr	Gly	Gly	Ala	Ala	Ala
2135						2140					2145			
Thr	Thr	Cys	Thr	Thr	Gly	Gly	Thr	Gly	Cys	Ala	Thr	Thr	Ala	Ala
2150						2155					2160			

PhoenixTemp63617.tmp.txt

Ala	Thr	Gly	Ala	Ala	Gly	Cys	Cys	Thr	Thr	Ala	Cys	Cys	Cys	Cys
2165						2170					2175			
Ala	Thr	Thr	Ala	Cys	Thr	Gly	Cys	Gly	Gly	Thr	Thr	Cys	Thr	Thr
2180						2185					2190			
Cys	Cys	Thr	Gly	Thr	Ala	Ala	Gly	Gly	Gly	Gly	Gly	Cys	Thr	Cys
2195						2200					2205			
Cys	Ala	Thr	Thr	Thr	Thr	Cys	Cys	Thr	Cys	Cys	Cys	Thr	Cys	Thr
2210						2215					2220			
Cys	Thr	Thr	Thr	Ala	Ala	Ala	Thr	Gly	Ala	Cys	Cys	Ala	Cys	Cys
2225						2230					2235			
Thr	Ala	Ala	Ala	Gly	Gly	Ala	Cys	Ala	Gly	Thr	Ala	Thr	Ala	Thr
2240						2245					2250			
Thr	Ala	Ala	Cys	Ala	Ala	Gly	Cys	Ala	Ala	Ala	Gly	Thr	Cys	Gly
2255						2260					2265			
Ala	Thr	Thr	Cys	Ala	Ala	Cys	Ala	Ala	Cys	Ala	Gly	Cys	Thr	Thr
2270						2275					2280			
Cys	Thr	Thr	Cys	Cys	Cys	Ala	Gly	Thr	Cys	Ala	Cys	Thr	Thr	Thr
2285						2290					2295			
Thr	Thr	Thr	Thr	Thr	Thr	Thr	Cys	Thr	Cys	Ala	Cys	Thr	Gly	Cys
2300						2305					2310			
Cys	Ala	Thr	Cys	Ala	Cys	Ala	Thr	Ala	Cys	Thr	Ala	Ala	Cys	Cys
2315						2320					2325			
Thr	Thr	Ala	Thr	Ala	Cys	Thr	Thr	Thr	Gly	Ala	Thr	Cys	Thr	Ala
2330						2335					2340			
Thr	Thr	Cys	Thr	Thr	Thr	Thr	Thr	Gly	Gly	Thr	Thr	Ala	Thr	Gly
2345						2350					2355			
Ala	Gly	Ala	Gly	Ala	Ala	Ala	Thr	Gly	Thr	Thr	Gly	Gly	Gly	Cys
2360						2365					2370			
Ala	Ala	Cys	Thr	Gly	Thr	Thr	Thr	Thr	Thr	Ala	Cys	Cys	Thr	Gly
2375						2380					2385			
Ala	Thr	Gly	Gly	Thr	Thr	Thr	Thr	Ala	Ala	Gly	Cys	Thr	Gly	Ala
2390						2395					2400			

PhoenixTemp63617.tmp.txt

Ala	Cys	Thr	Thr	Gly	Ala	Ala	Gly	Gly	Ala	Cys	Thr	Gly	Gly	Thr
	2405					2410					2415			
Thr	Cys	Cys	Thr	Ala	Thr	Thr	Cys	Thr	Gly	Ala	Ala	Ala	Cys	Ala
	2420					2425					2430			
Gly	Thr	Ala	Ala	Ala	Ala	Cys	Thr	Ala	Thr	Gly	Thr	Ala	Thr	Ala
	2435					2440					2445			
Ala	Thr	Ala	Gly	Thr	Ala	Thr	Ala	Thr	Ala	Gly	Cys	Cys	Ala	Thr
	2450					2455					2460			
Gly	Cys	Ala	Thr	Gly	Gly	Cys	Ala	Ala	Ala	Thr	Ala	Thr	Thr	Thr
	2465					2470					2475			
Thr	Ala	Ala	Thr	Ala	Thr	Thr	Thr	Cys	Thr	Gly	Thr	Thr	Thr	Thr
	2480					2485					2490			
Cys	Ala	Thr	Thr	Thr	Cys	Cys	Thr	Gly	Thr	Thr	Gly	Gly	Ala	Ala
	2495					2500					2505			
Ala	Thr	Ala	Thr	Thr	Ala	Thr	Cys	Cys	Thr	Gly	Cys	Ala	Thr	Ala
	2510					2515					2520			
Ala	Thr	Ala	Gly	Cys	Thr	Ala	Thr	Thr	Gly	Gly	Ala	Gly	Gly	Cys
	2525					2530					2535			
Thr	Cys	Cys	Thr	Cys	Ala	Gly	Thr	Gly	Ala	Ala	Ala	Gly	Ala	Thr
	2540					2545					2550			
Cys	Cys	Cys	Ala	Ala	Ala	Ala	Gly	Gly	Ala	Thr	Thr	Thr	Thr	Gly
	2555					2560					2565			
Gly	Thr	Gly	Gly	Ala	Ala	Ala	Ala	Cys	Thr	Ala	Gly	Thr	Thr	Gly
	2570					2575					2580			
Thr	Ala	Ala	Thr	Cys	Thr	Cys	Ala	Cys	Ala	Ala	Ala	Cys	Thr	Cys
	2585					2590					2595			
Ala	Ala	Cys	Ala	Cys	Thr	Ala	Cys	Cys	Ala	Thr	Cys	Ala	Gly	Gly
	2600					2605					2610			
Gly	Gly	Thr	Thr	Thr	Thr	Cys	Thr	Thr	Thr	Ala	Thr	Gly	Gly	Cys
	2615					2620					2625			
Ala	Ala	Ala	Gly	Cys	Cys	Ala	Ala	Ala	Ala	Thr	Ala	Gly	Cys	Thr
	2630					2635					2640			

PhoenixTemp63617.tmp.txt

Cys	Cys	Thr	Ala	Cys	Ala	Ala	Thr	Thr	Thr	Cys	Thr	Thr	Ala	Thr
2645						2650					2655			
Ala	Thr	Cys	Cys	Cys	Thr	Cys	Gly	Thr	Cys	Ala	Thr	Gly	Thr	Gly
2660						2665					2670			
Gly	Cys	Ala	Gly	Thr	Ala	Thr	Thr	Thr	Ala	Thr	Thr	Thr	Ala	Thr
2675						2680					2685			
Thr	Thr	Ala	Thr	Thr	Thr	Gly	Gly	Ala	Ala	Gly	Thr	Thr	Thr	Gly
2690						2695					2700			
Cys	Cys	Thr	Ala	Thr	Cys	Cys	Thr	Thr	Cys	Thr	Ala	Thr	Ala	Thr
2705						2710					2715			
Thr	Thr	Ala	Thr	Ala	Gly	Ala	Thr	Ala	Thr	Thr	Thr	Ala	Thr	Ala
2720						2725					2730			
Ala	Ala	Ala	Ala	Thr	Gly	Thr	Ala	Ala	Cys	Cys	Cys	Cys	Thr	Thr
2735						2740					2745			
Thr	Thr	Thr	Cys	Cys	Thr	Thr	Thr	Cys	Thr	Thr	Cys	Thr	Gly	Thr
2750						2755					2760			
Thr	Thr	Ala	Ala	Ala	Ala	Thr	Ala	Ala	Ala	Ala	Ala	Thr	Ala	Ala
2765						2770					2775			
Ala	Ala	Thr	Thr	Thr	Ala	Thr	Cys	Thr	Cys	Ala	Gly	Cys	Thr	Thr
2780						2785					2790			
Cys	Thr	Gly	Thr	Thr	Ala	Gly	Cys	Thr	Thr	Ala	Thr	Cys	Cys	Thr
2795						2800					2805			
Cys	Thr	Thr	Thr	Gly	Thr	Ala	Gly	Thr	Ala	Cys	Thr	Ala	Cys	Thr
2810						2815					2820			
Thr	Ala	Ala	Ala	Ala	Gly	Cys	Ala	Thr	Gly	Thr	Cys	Gly	Gly	Ala
2825						2830					2835			
Ala	Thr	Ala	Thr	Ala	Ala	Gly	Ala	Ala	Thr	Ala	Ala	Ala	Ala	Ala
2840						2845					2850			
Gly	Gly	Ala	Thr	Thr	Ala	Thr	Gly	Gly	Gly	Ala	Gly	Gly	Gly	Gly
2855						2860					2865			
Ala	Ala	Cys	Ala	Thr	Thr	Ala	Gly	Gly	Gly	Ala	Ala	Ala	Thr	Cys
2870						2875					2880			

PhoenixTemp63617.tmp.txt

Cys Ala Gly Ala Gly Ala Ala Gly Gly Cys Ala Ala Ala Ala Thr
2885 2890 2895

Thr Gly Ala Ala Ala Ala Ala Ala Ala Gly Ala Thr Thr Thr Thr
2900 2905 2910

Ala Gly Ala Ala Thr Thr Thr Thr Ala Ala Ala Ala Thr Thr Thr
2915 2920 2925

Thr Cys Ala Ala Ala Gly Ala Thr Thr Thr Cys Thr Thr Cys Cys
2930 2935 2940

Ala Thr Thr Cys Ala Thr Ala Ala Gly Gly Ala Gly Ala Cys Thr
2945 2950 2955

Cys Ala Ala Thr Gly Ala Thr Thr Thr Thr Ala Ala Thr Thr Gly
2960 2965 2970

Ala Thr Cys Thr Ala Gly Ala Cys Ala Gly Ala Ala Thr Thr Ala
2975 2980 2985

Thr Thr Thr Ala Ala Gly Thr Thr Thr Thr Ala Thr Cys Ala Ala
2990 2995 3000

Thr Ala Thr Thr Gly Gly Ala Thr Thr Thr Cys Thr Gly Gly Thr
3005 3010 3015

<210> 35
<211> 251
<212> PRT
<213> Homo Sapiens

<400> 35

Met Leu Gly Ala Arg Leu Arg Leu Trp Val Cys Ala Leu Cys Ser Val
1 5 10 15

Cys Ser Met Ser Val Leu Arg Ala Tyr Pro Asn Ala Ser Pro Leu Leu
20 25 30

Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala Thr Ala Arg
35 40 45

Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His Val Asp Gly Ala
50 55 60

Pro His Gln Thr Ile Tyr Ser Ala Leu Met Ile Arg Ser Glu Asp Ala
65 70 75 80

PhoenixTemp63617.tmp.txt

Gly Phe Val Val Ile Thr Gly Val Met Ser Arg Arg Tyr Leu Cys Met
85 90 95

Asp Phe Arg Gly Asn Ile Phe Gly Ser His Tyr Phe Asp Pro Glu Asn
100 105 110

Cys Arg Phe Gln His Gln Thr Leu Glu Asn Gly Tyr Asp Val Tyr His
115 120 125

Ser Pro Gln Tyr His Phe Leu Val Ser Leu Gly Arg Ala Lys Arg Ala
130 135 140

Phe Leu Pro Gly Met Asn Pro Pro Pro Tyr Ser Gln Phe Leu Ser Arg
145 150 155 160

Arg Asn Glu Ile Pro Leu Ile His Phe Asn Thr Pro Ile Pro Arg Arg
165 170 175

His Thr Arg Ser Ala Glu Asp Asp Ser Glu Arg Asp Pro Leu Asn Val
180 185 190

Leu Lys Pro Arg Ala Arg Met Thr Pro Ala Pro Ala Ser Cys Ser Gln
195 200 205

Glu Leu Pro Ser Ala Glu Asp Asn Ser Pro Met Ala Ser Asp Pro Leu
210 215 220

Gly Val Val Arg Gly Gly Arg Val Asn Thr His Ala Gly Gly Thr Gly
225 230 235 240

Pro Glu Gly Cys Arg Pro Phe Ala Lys Phe Ile
245 250

<210> 36
<211> 251
<212> PRT
<213> Homo Sapiens

<400> 36

Met Leu Gly Ala Arg Leu Arg Leu Trp Val Cys Ala Leu Cys Ser Val
1 5 10 15

Cys Ser Met Ser Val Leu Arg Ala Tyr Pro Asn Ala Ser Pro Leu Leu
20 25 30

Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala Thr Ala Arg
35 40 45

PhoenixTemp63617.tmp.txt

Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His Val Asp Gly Ala
50 55 60

Pro His Gln Thr Ile Tyr Ser Ala Leu Met Ile Arg Ser Glu Asp Ala
65 70 75 80

Gly Phe Val Val Ile Thr Gly Val Met Ser Arg Arg Tyr Leu Cys Met
85 90 95

Asp Phe Arg Gly Asn Ile Phe Gly Ser His Tyr Phe Asp Pro Glu Asn
100 105 110

Cys Arg Phe Gln His Gln Thr Leu Glu Asn Gly Tyr Asp Val Tyr His
115 120 125

Ser Pro Gln Tyr His Phe Leu Val Ser Leu Gly Arg Ala Lys Arg Ala
130 135 140

Phe Leu Pro Gly Met Asn Pro Pro Pro Tyr Ser Gln Phe Leu Ser Arg
145 150 155 160

Arg Asn Glu Ile Pro Leu Ile His Phe Asn Thr Pro Ile Pro Arg Arg
165 170 175

His Thr Gln Ser Ala Glu Asp Asp Ser Glu Arg Asp Pro Leu Asn Val
180 185 190

Leu Lys Pro Arg Ala Arg Met Thr Pro Ala Pro Ala Ser Cys Ser Gln
195 200 205

Glu Leu Pro Ser Ala Glu Asp Asn Ser Pro Met Ala Ser Asp Pro Leu
210 215 220

Gly Val Val Arg Gly Gly Arg Val Asn Thr His Ala Gly Gly Thr Gly
225 230 235 240

Pro Glu Gly Cys Arg Pro Phe Ala Lys Phe Ile
245 250

<210> 37

<211> 431

<212> PRT

<213> Homo Sapiens

<400> 37

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

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

20

25

30

Trp Asp His Phe Ile His Thr His Leu Lys Asn Val Ser Ser Thr Asn
 35 40 45

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

Asp Phe Ile Gly Val Ser Phe Tyr Gln Phe Ser Ile Ser Trp Pro Arg
 65 70 75 80

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

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

Ile Val Thr Leu Tyr His Trp Asp Leu Pro Leu Ala Leu Gln Glu Lys
 115 120 125

Tyr Gly Gly Trp Lys Asn Asp Thr Ile Ile Asp Ile Phe Asn Asp Tyr
 130 135 140

Ala Thr Tyr Cys Phe Gln Met Phe Gly Asp Arg Val Lys Tyr Trp Ile
 145 150 155 160

Thr Ile His Asn Pro Tyr Leu Val Ala Trp His Gly Tyr Gly Thr Gly
 165 170 175

Met His Ala Pro Gly Glu Lys Gly Asn Leu Ala Ala Val Tyr Thr Val
 180 185 190

Gly His Asn Leu Ile Lys Ala His Ser Lys Val Trp His Asn Tyr Asn
 195 200 205

Thr His Phe Arg Pro His Gln Lys Gly Trp Leu Ser Ile Thr Leu Gly
 210 215 220

Ser His Trp Ile Glu Pro Asn Arg Ser Glu Asn Thr Met Asp Ile Phe
 225 230 235 240

Lys Cys Gln Gln Ser Met Val Ser Val Leu Gly Trp Phe Ala Asn Pro
 245 250 255

Ile His Gly Asp Gly Asp Tyr Pro Glu Gly Met Arg Lys Lys Leu Phe
 260 265 270

Ser Val Leu Pro Ile Phe Ser Glu Ala Glu Lys His Glu Met Arg Gly

275

280

285

Thr Ala Asp Phe Phe Ala Phe Ser Phe Gly Pro Asn Asn Phe Lys Pro
 290 295 300

Leu Asn Thr Met Ala Lys Met Gly Gln Asn Val Ser Leu Asn Leu Arg
 305 310 315 320

Glu Ala Leu Asn Trp Ile Lys Leu Glu Tyr Asn Asn Pro Arg Ile Leu
 325 330 335

Ile Ala Glu Asn Gly Trp Phe Thr Asp Ser Arg Val Lys Thr Glu Asp
 340 345 350

Thr Thr Ala Ile Tyr Met Met Lys Asn Phe Leu Ser Gln Val Leu Gln
 355 360 365

Ala Ile Arg Leu Asp Glu Ile Arg Val Phe Gly Tyr Thr Ala Trp Ser
 370 375 380

Leu Leu Asp Gly Phe Glu Trp Gln Asp Ala Tyr Thr Ile Arg Arg Gly
 385 390 395 400

Leu Phe Tyr Val Asp Phe Asn Ser Lys Gln Lys Glu Arg Lys Pro Lys
 405 410 415

Ser Ser Ala His Tyr Tyr Lys Gln Ile Ile Arg Glu Asn Gly Phe
 420 425 430

<210> 38

<211> 397

<212> PRT

<213> Homo Sapiens

<400> 38

Thr Arg Pro Ala Gln Cys Thr Asp Phe Val Asn Ile Lys Lys Gln Leu
 1 5 10 15

Glu Met Leu Ala Arg Met Lys Val Thr His Tyr Arg Phe Ala Leu Asp
 20 25 30

Trp Ala Ser Val Leu Pro Thr Gly Asn Leu Ser Ala Val Asn Arg Gln
 35 40 45

Ala Leu Arg Tyr Tyr Arg Cys Val Val Ser Glu Gly Leu Lys Leu Gly
 50 55 60

Ile Ser Ala Met Val Thr Leu Tyr Tyr Pro Thr His Ala His Leu Gly
 65 70 75 80

PhoenixTemp63617.tmp.txt

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Leu Pro Glu Pro Leu Leu His Ala Asp Gly Trp Leu Asn Pro Ser Thr
      85                      90                      95

Ala Glu Ala Phe Gln Ala Tyr Ala Gly Leu Cys Phe Gln Glu Leu Gly
      100                      105                      110

Asp Leu Val Lys Leu Trp Ile Thr Ile Asn Glu Pro Asn Arg Leu Ser
      115                      120                      125

Asp Ile Tyr Asn Arg Ser Gly Asn Asp Thr Tyr Gly Ala Ala His Asn
      130                      135                      140

Leu Leu Val Ala His Ala Leu Ala Trp Arg Leu Tyr Asp Arg Gln Phe
      145                      150                      155                      160

Arg Pro Ser Gln Arg Gly Ala Val Ser Leu Ser Leu His Ala Asp Trp
      165                      170                      175

Ala Glu Pro Ala Asn Pro Tyr Ala Asp Ser His Trp Arg Ala Ala Glu
      180                      185                      190

Arg Phe Leu Gln Phe Glu Ile Ala Trp Phe Ala Glu Pro Leu Phe Lys
      195                      200                      205

Thr Gly Asp Tyr Pro Ala Ala Met Arg Glu Tyr Ile Ala Ser Lys His
      210                      215                      220

Arg Arg Gly Leu Ser Ser Ser Ala Leu Pro Arg Leu Thr Glu Ala Glu
      225                      230                      235                      240

Arg Arg Leu Leu Lys Gly Thr Val Asp Phe Cys Ala Leu Asn His Phe
      245                      250                      255

Thr Thr Arg Phe Val Met His Glu Gln Leu Ala Gly Ser Arg Tyr Asp
      260                      265                      270

Ser Asp Arg Asp Ile Gln Phe Leu Gln Asp Ile Thr Arg Leu Ser Ser
      275                      280                      285

Pro Thr Arg Leu Ala Val Ile Pro Trp Gly Val Arg Lys Leu Leu Arg
      290                      295                      300

Trp Val Arg Arg Asn Tyr Gly Asp Met Asp Ile Tyr Ile Thr Ala Ser
      305                      310                      315                      320

Gly Ile Asp Asp Gln Ala Leu Glu Asp Asp Arg Leu Arg Lys Tyr Tyr
      325                      330                      335

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PhoenixTemp63617.tmp.txt

Leu Gly Lys Tyr Leu Gln Glu Val Leu Lys Ala Tyr Leu Ile Asp Lys
340 345 350

Val Arg Ile Lys Gly Tyr Tyr Ala Phe Lys Leu Ala Glu Glu Lys Ser
355 360 365

Lys Pro Arg Phe Gly Phe Phe Thr Ser Asp Phe Lys Ala Lys Ser Ser
370 375 380

Ile Gln Phe Tyr Asn Lys Val Ile Ser Ser Arg Gly Phe
385 390 395

<210> 39
<211> 946
<212> PRT
<213> Homo Sapiens

<400> 39

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

Thr Pro Val Asn Glu Ser Gln Leu Phe Leu Tyr Asp Thr Phe Pro Lys
20 25 30

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

Trp Lys Lys Asp Gly Lys Gly Pro Ser Ile Trp Asp His Phe Ile His
50 55 60

Thr His Leu Lys Asn Val Ser Ser Thr Asn Gly Ser Ser Asp Ser Tyr
65 70 75 80

Ile Phe Leu Glu Lys Asp Leu Ser Ala Leu Asp Phe Ile Gly Val Ser
85 90 95

Phe Tyr Gln Phe Ser Ile Ser Trp Pro Arg Leu Phe Pro Asp Gly Ile
100 105 110

Val Thr Val Ala Asn Ala Lys Gly Leu Gln Tyr Tyr Ser Thr Leu Leu
115 120 125

Asp Ala Leu Val Leu Arg Asn Ile Glu Pro Ile Val Thr Leu Tyr His
130 135 140

Trp Asp Leu Pro Leu Ala Leu Gln Glu Lys Tyr Gly Gly Trp Lys Asn
145 150 155 160

PhoenixTemp63617.tmp.txt

Asp	Thr	Ile	Ile	Asp	Ile	Phe	Asn	Asp	Tyr	Ala	Thr	Tyr	Cys	Phe	Gln
				165					170					175	
Met	Phe	Gly	Asp	Arg	Val	Lys	Tyr	Trp	Ile	Thr	Ile	His	Asn	Pro	Tyr
			180					185					190		
Leu	Val	Ala	Trp	His	Gly	Tyr	Gly	Thr	Gly	Met	His	Ala	Pro	Gly	Glu
		195					200					205			
Lys	Gly	Asn	Leu	Ala	Ala	Val	Tyr	Thr	Val	Gly	His	Asn	Leu	Ile	Lys
	210					215					220				
Ala	His	Ser	Lys	Val	Trp	His	Asn	Tyr	Asn	Thr	His	Phe	Arg	Pro	His
225					230					235					240
Gln	Lys	Gly	Trp	Leu	Ser	Ile	Thr	Leu	Gly	Ser	His	Trp	Ile	Glu	Pro
				245					250					255	
Asn	Arg	Ser	Glu	Asn	Thr	Met	Asp	Ile	Phe	Lys	Cys	Gln	Gln	Ser	Met
			260					265					270		
Val	Ser	Val	Leu	Gly	Trp	Phe	Ala	Asn	Pro	Ile	His	Gly	Asp	Gly	Asp
		275					280					285			
Tyr	Pro	Glu	Gly	Met	Arg	Lys	Lys	Leu	Phe	Ser	Val	Leu	Pro	Ile	Phe
	290					295					300				
Ser	Glu	Ala	Glu	Lys	His	Glu	Met	Arg	Gly	Thr	Ala	Asp	Phe	Phe	Ala
305					310					315					320
Phe	Ser	Phe	Gly	Pro	Asn	Asn	Phe	Lys	Pro	Leu	Asn	Thr	Met	Ala	Lys
				325					330					335	
Met	Gly	Gln	Asn	Val	Ser	Leu	Asn	Leu	Arg	Glu	Ala	Leu	Asn	Trp	Ile
			340					345					350		
Lys	Leu	Glu	Tyr	Asn	Asn	Pro	Arg	Ile	Leu	Ile	Ala	Glu	Asn	Gly	Trp
		355					360					365			
Phe	Thr	Asp	Ser	Arg	Val	Lys	Thr	Glu	Asp	Thr	Thr	Ala	Ile	Tyr	Met
	370					375					380				
Met	Lys	Asn	Phe	Leu	Ser	Gln	Val	Leu	Gln	Ala	Ile	Arg	Leu	Asp	Glu
385					390					395					400
Ile	Arg	Val	Phe	Gly	Tyr	Thr	Ala	Trp	Ser	Leu	Leu	Asp	Gly	Phe	Glu
				405					410					415	

PhoenixTemp63617.tmp.txt

Trp Gln Asp Ala Tyr Thr Ile Arg Arg Gly Leu Phe Tyr Val Asp Phe
 420 425 430
 Asn Ser Lys Gln Lys Glu Arg Lys Pro Lys Ser Ser Ala His Tyr Tyr
 435 440 445
 Lys Gln Ile Ile Arg Glu Asn Gly Phe Ser Leu Lys Glu Ser Thr Pro
 450 455 460
 Asp Val Gln Gly Gln Phe Pro Cys Asp Phe Ser Trp Gly Val Thr Glu
 465 470 475 480
 Ser Val Leu Lys Pro Glu Ser Val Ala Ser Ser Pro Gln Phe Ser Asp
 485 490 495
 Pro His Leu Tyr Val Trp Asn Ala Thr Gly Asn Arg Leu Leu His Arg
 500 505 510
 Val Glu Gly Val Arg Leu Lys Thr Arg Pro Ala Gln Cys Thr Asp Phe
 515 520 525
 Val Asn Ile Lys Lys Gln Leu Glu Met Leu Ala Arg Met Lys Val Thr
 530 535 540
 His Tyr Arg Phe Ala Leu Asp Trp Ala Ser Val Leu Pro Thr Gly Asn
 545 550 555 560
 Leu Ser Ala Val Asn Arg Gln Ala Leu Arg Tyr Tyr Arg Cys Val Val
 565 570 575
 Ser Glu Gly Leu Lys Leu Gly Ile Ser Ala Met Val Thr Leu Tyr Tyr
 580 585 590
 Pro Thr His Ala His Leu Gly Leu Pro Glu Pro Leu Leu His Ala Asp
 595 600 605
 Gly Trp Leu Asn Pro Ser Thr Ala Glu Ala Phe Gln Ala Tyr Ala Gly
 610 615 620
 Leu Cys Phe Gln Glu Leu Gly Asp Leu Val Lys Leu Trp Ile Thr Ile
 625 630 635 640
 Asn Glu Pro Asn Arg Leu Ser Asp Ile Tyr Asn Arg Ser Gly Asn Asp
 645 650 655
 Thr Tyr Gly Ala Ala His Asn Leu Leu Val Ala His Ala Leu Ala Trp
 660 665 670

PhoenixTemp63617.tmp.txt

Arg Leu Tyr Asp Arg Gln Phe Arg Pro Ser Gln Arg Gly Ala Val Ser
 675 680 685
 Leu Ser Leu His Ala Asp Trp Ala Glu Pro Ala Asn Pro Tyr Ala Asp
 690 695 700
 Ser His Trp Arg Ala Ala Glu Arg Phe Leu Gln Phe Glu Ile Ala Trp
 705 710 715 720
 Phe Ala Glu Pro Leu Phe Lys Thr Gly Asp Tyr Pro Ala Ala Met Arg
 725 730 735
 Glu Tyr Ile Ala Ser Lys His Arg Arg Gly Leu Ser Ser Ser Ala Leu
 740 745 750
 Pro Arg Leu Thr Glu Ala Glu Arg Arg Leu Leu Lys Gly Thr Val Asp
 755 760 765
 Phe Cys Ala Leu Asn His Phe Thr Thr Arg Phe Val Met His Glu Gln
 770 775 780
 Leu Ala Gly Ser Arg Tyr Asp Ser Asp Arg Asp Ile Gln Phe Leu Gln
 785 790 795 800
 Asp Ile Thr Arg Leu Ser Ser Pro Thr Arg Leu Ala Val Ile Pro Trp
 805 810 815
 Gly Val Arg Lys Leu Leu Arg Trp Val Arg Arg Asn Tyr Gly Asp Met
 820 825 830
 Asp Ile Tyr Ile Thr Ala Ser Gly Ile Asp Asp Gln Ala Leu Glu Asp
 835 840 845
 Asp Arg Leu Arg Lys Tyr Tyr Leu Gly Lys Tyr Leu Gln Glu Val Leu
 850 855 860
 Lys Ala Tyr Leu Ile Asp Lys Val Arg Ile Lys Gly Tyr Tyr Ala Phe
 865 870 875 880
 Lys Leu Ala Glu Glu Lys Ser Lys Pro Arg Phe Gly Phe Phe Thr Ser
 885 890 895
 Asp Phe Lys Ala Lys Ser Ser Ile Gln Phe Tyr Asn Lys Val Ile Ser
 900 905 910
 Ser Arg Gly Phe Pro Phe Glu Asn Ser Ser Ser Arg Cys Ser Gln Thr
 915 920 925

PhoenixTemp63617.tmp.txt

Gln Glu Asn Thr Glu Cys Thr Val Cys Leu Phe Leu Val Gln Lys Lys
 930 935 940

Pro Leu
 945

<210> 40
 <211> 1195
 <212> PRT
 <213> Homo Sapiens

<400> 40

Glu Pro Gly Asp Gly Ala Gln Thr Trp Ala Arg Phe Ser Arg Pro Pro
 1 5 10 15

Ala Pro Glu Ala Ala Gly Leu Phe Gln Gly Thr Phe Pro Asp Gly Phe
 20 25 30

Leu Trp Ala Val Gly Ser Ala Ala Tyr Gln Thr Glu Gly Gly Trp Gln
 35 40 45

Gln His Gly Lys Gly Ala Ser Ile Trp Asp Thr Phe Thr His His Pro
 50 55 60

Leu Ala Pro Pro Gly Asp Ser Arg Asn Ala Ser Leu Pro Leu Gly Ala
 65 70 75 80

Pro Ser Pro Leu Gln Pro Ala Thr Gly Asp Val Ala Ser Asp Ser Tyr
 85 90 95

Asn Asn Val Phe Arg Asp Thr Glu Ala Leu Arg Glu Leu Gly Val Thr
 100 105 110

His Tyr Arg Phe Ser Ile Ser Trp Ala Arg Val Leu Pro Asn Gly Ser
 115 120 125

Ala Gly Val Pro Asn Arg Glu Gly Leu Arg Tyr Tyr Arg Arg Leu Leu
 130 135 140

Glu Arg Leu Arg Glu Leu Gly Val Gln Pro Val Val Thr Leu Tyr His
 145 150 155 160

Trp Asp Leu Pro Gln Arg Leu Gln Asp Ala Tyr Gly Gly Trp Ala Asn
 165 170 175

Arg Ala Leu Ala Asp His Phe Arg Asp Tyr Ala Glu Leu Cys Phe Arg
 180 185 190

PhoenixTemp63617.tmp.txt

His Phe Gly Gly Gln Val Lys Tyr Trp Ile Thr Ile Asp Asn Pro Tyr
 195 200 205

Val Val Ala Trp His Gly Tyr Ala Thr Gly Arg Leu Ala Pro Gly Ile
 210 215 220

Arg Gly Ser Pro Arg Leu Gly Tyr Leu Val Ala His Asn Leu Leu Leu
 225 230 235 240

Ala His Ala Lys Val Trp His Leu Tyr Asn Thr Ser Phe Arg Pro Thr
 245 250 255

Gln Gly Gly Gln Val Ser Ile Ala Leu Ser Ser His Trp Ile Asn Pro
 260 265 270

Arg Arg Met Thr Asp His Ser Ile Lys Glu Cys Gln Lys Ser Leu Asp
 275 280 285

Phe Val Leu Gly Trp Phe Ala Lys Pro Val Phe Ile Asp Gly Asp Tyr
 290 295 300

Pro Glu Ser Met Lys Asn Asn Leu Ser Ser Ile Leu Pro Asp Phe Thr
 305 310 315 320

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

Cys Phe Gly Pro Thr Leu Ser Phe Gln Leu Leu Asp Pro His Met Lys
 340 345 350

Phe Arg Gln Leu Glu Ser Pro Asn Leu Arg Gln Leu Leu Ser Trp Ile
 355 360 365

Asp Leu Glu Phe Asn His Pro Gln Ile Phe Ile Val Glu Asn Gly Trp
 370 375 380

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

Leu Lys Lys Phe Ile Met Glu Thr Leu Lys Ala Ile Lys Leu Asp Gly
 405 410 415

Val Asp Val Ile Gly Tyr Thr Ala Trp Ser Leu Met Asp Gly Phe Glu
 420 425 430

Trp His Arg Gly Tyr Ser Ile Arg Arg Gly Leu Phe Tyr Val Asp Phe
 435 440 445

Leu Ser Gln Asp Lys Met Leu Leu Pro Lys Ser Ser Ala Leu Phe Tyr
 450 455 460

Gln Lys Leu Ile Glu Lys Asn Gly Phe Pro Pro Leu Pro Glu Asn Gln
 465 470 475 480

Pro Leu Glu Gly Thr Phe Pro Cys Asp Phe Ala Trp Gly Val Val Asp
 485 490 495

Asn Tyr Ile Gln Val Asp Thr Thr Leu Ser Gln Phe Thr Asp Leu Asn
 500 505 510

Val Tyr Leu Trp Asp Val His His Ser Lys Arg Leu Ile Lys Val Asp
 515 520 525

Gly Val Val Thr Lys Lys Arg Lys Ser Tyr Cys Val Asp Phe Ala Ala
 530 535 540

Ile Gln Pro Gln Ile Ala Leu Leu Gln Glu Met His Val Thr His Phe
 545 550 555 560

Arg Phe Ser Leu Asp Trp Ala Leu Ile Leu Pro Leu Gly Asn Gln Ser
 565 570 575

Gln Val Asn His Thr Ile Leu Gln Tyr Tyr Arg Cys Met Ala Ser Glu
 580 585 590

Leu Val Arg Val Asn Ile Thr Pro Val Val Ala Leu Trp Gln Pro Met
 595 600 605

Ala Pro Asn Gln Gly Leu Pro Arg Leu Leu Ala Arg Gln Gly Ala Trp
 610 615 620

Glu Asn Pro Tyr Thr Ala Leu Ala Phe Ala Glu Tyr Ala Arg Leu Cys
 625 630 635 640

Phe Gln Glu Leu Gly His His Val Lys Leu Trp Ile Thr Met Asn Glu
 645 650 655

Pro Tyr Thr Arg Asn Met Thr Tyr Ser Ala Gly His Asn Leu Leu Lys
 660 665 670

Ala His Ala Leu Ala Trp His Val Tyr Asn Glu Lys Phe Arg His Ala
 675 680 685

Gln Asn Gly Lys Ile Ser Ile Ala Leu Gln Ala Asp Trp Ile Glu Pro
 690 695 700

PhoenixTemp63617.tmp.txt

Ala Cys Pro Phe Ser Gln Lys Asp Lys Glu Val Ala Glu Arg Val Leu
705 710 715 720

Glu Phe Asp Ile Gly Trp Leu Ala Glu Pro Ile Phe Gly Ser Gly Asp
725 730 735

Tyr Pro Trp Val Met Arg Asp Trp Leu Asn Gln Arg Asn Asn Phe Leu
740 745 750

Leu Pro Tyr Phe Thr Glu Asp Glu Lys Lys Leu Ile Gln Gly Thr Phe
755 760 765

Asp Phe Leu Ala Leu Ser His Tyr Thr Thr Ile Leu Val Asp Ser Glu
770 775 780

Lys Glu Asp Pro Ile Lys Tyr Asn Asp Tyr Leu Glu Val Gln Glu Met
785 790 795 800

Thr Asp Ile Thr Trp Leu Asn Ser Pro Ser Gln Val Ala Val Val Pro
805 810 815

Trp Gly Leu Arg Lys Val Leu Asn Trp Leu Lys Phe Lys Tyr Gly Asp
820 825 830

Leu Pro Met Tyr Ile Ile Ser Asn Gly Ile Asp Asp Gly Leu His Ala
835 840 845

Glu Asp Asp Gln Leu Arg Val Tyr Tyr Met Gln Asn Tyr Ile Asn Glu
850 855 860

Ala Leu Lys Ala His Ile Leu Asp Gly Ile Asn Leu Cys Gly Tyr Phe
865 870 875 880

Ala Tyr Ser Phe Asn Asp Arg Thr Ala Pro Arg Phe Gly Leu Tyr Arg
885 890 895

Tyr Ala Ala Asp Gln Phe Glu Pro Lys Ala Ser Met Lys His Tyr Arg
900 905 910

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

Phe Cys Pro Glu Glu Phe Thr Val Cys Thr Glu Cys Ser Phe Phe His
930 935 940

Thr Arg Lys Ser Leu Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
945 950 955 960

PhoenixTemp63617.tmp.txt

Ser Gly Gly Gly Gly Ser Leu Lys Tyr Pro Asn Ala Ser Pro Leu Leu
 965 970 975

Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala Thr Ala Arg
 980 985 990

Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His Val Asp Gly Ala
 995 1000 1005

Pro His Gln Thr Ile Tyr Ser Ala Leu Met Ile Arg Ser Glu Asp
 1010 1015 1020

Ala Gly Phe Val Val Ile Thr Gly Val Met Ser Arg Arg Tyr Leu
 1025 1030 1035

Cys Met Asp Phe Arg Gly Asn Ile Phe Gly Ser His Tyr Phe Asp
 1040 1045 1050

Pro Glu Asn Cys Arg Phe Gln His Gln Thr Leu Glu Asn Gly Tyr
 1055 1060 1065

Asp Val Tyr His Ser Pro Gln Tyr His Phe Leu Val Ser Leu Gly
 1070 1075 1080

Arg Ala Lys Arg Ala Phe Leu Pro Gly Met Asn Pro Pro Pro Tyr
 1085 1090 1095

Ser Gln Phe Leu Ser Arg Arg Asn Glu Ile Pro Leu Ile His Phe
 1100 1105 1110

Asn Thr Pro Ile Pro Arg Arg His Thr Arg Ser Ala Glu Asp Asp
 1115 1120 1125

Ser Glu Arg Asp Pro Leu Asn Val Leu Lys Pro Arg Ala Arg Met
 1130 1135 1140

Thr Pro Ala Pro Ala Ser Cys Ser Gln Glu Leu Pro Ser Ala Glu
 1145 1150 1155

Asp Asn Ser Pro Met Ala Ser Asp Pro Leu Gly Val Val Arg Gly
 1160 1165 1170

Gly Arg Val Asn Thr His Ala Gly Gly Thr Gly Pro Glu Gly Cys
 1175 1180 1185

Arg Pro Phe Ala Lys Phe Ile
 1190 1195

<210> 41
 <211> 1195
 <212> PRT
 <213> Homo Sapiens

<400> 41

Glu Pro Gly Asp Gly Ala Gln Thr Trp Ala Arg Phe Ser Arg Pro Pro
 1 5 10 15

Ala Pro Glu Ala Ala Gly Leu Phe Gln Gly Thr Phe Pro Asp Gly Phe
 20 25 30

Leu Trp Ala Val Gly Ser Ala Ala Tyr Gln Thr Glu Gly Gly Trp Gln
 35 40 45

Gln His Gly Lys Gly Ala Ser Ile Trp Asp Thr Phe Thr His His Pro
 50 55 60

Leu Ala Pro Pro Gly Asp Ser Arg Asn Ala Ser Leu Pro Leu Gly Ala
 65 70 75 80

Pro Ser Pro Leu Gln Pro Ala Thr Gly Asp Val Ala Ser Asp Ser Tyr
 85 90 95

Asn Asn Val Phe Arg Asp Thr Glu Ala Leu Arg Glu Leu Gly Val Thr
 100 105 110

His Tyr Arg Phe Ser Ile Ser Trp Ala Arg Val Leu Pro Asn Gly Ser
 115 120 125

Ala Gly Val Pro Asn Arg Glu Gly Leu Arg Tyr Tyr Arg Arg Leu Leu
 130 135 140

Glu Arg Leu Arg Glu Leu Gly Val Gln Pro Val Val Thr Leu Tyr His
 145 150 155 160

Trp Asp Leu Pro Gln Arg Leu Gln Asp Ala Tyr Gly Gly Trp Ala Asn
 165 170 175

Arg Ala Leu Ala Asp His Phe Arg Asp Tyr Ala Glu Leu Cys Phe Arg
 180 185 190

His Phe Gly Gly Gln Val Lys Tyr Trp Ile Thr Ile Asp Asn Pro Tyr
 195 200 205

Val Val Ala Trp His Gly Tyr Ala Thr Gly Arg Leu Ala Pro Gly Ile
 210 215 220

Arg Gly Ser Pro Arg Leu Gly Tyr Leu Val Ala His Asn Leu Leu Leu

225 230 235 240

Ala His Ala Lys Val Trp His Leu Tyr Asn Thr Ser Phe Arg Pro Thr
245 250 255

Gln Gly Gly Gln Val Ser Ile Ala Leu Ser Ser His Trp Ile Asn Pro
260 265 270

Arg Arg Met Thr Asp His Ser Ile Lys Glu Cys Gln Lys Ser Leu Asp
275 280 285

Phe Val Leu Gly Trp Phe Ala Lys Pro Val Phe Ile Asp Gly Asp Tyr
290 295 300

Pro	Glu	Ser	Met	Lys	Asn	Asn	Leu	Ser	Ser	Ile	Leu	Pro	Asp	Phe	Thr
305					310					315					320

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

Cys Phe Gly Pro Thr Leu Ser Phe Gln Leu Leu Asp Pro His Met Lys
340 345 350

Phe Arg Gln Leu Glu Ser Pro Asn Leu Arg Gln Leu Leu Ser Trp Ile
355 360 365

Asp	Leu	Glu	Phe	Asn	His	Pro	Gln	Ile	Phe	Ile	Val	Glu	Asn	Gly	Trp
	370					375					380				

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

Leu Lys Lys Phe Ile Met Glu Thr Leu Lys Ala Ile Lys Leu Asp Gly
405 410 415

Val Asp Val Ile Gly Tyr Thr Ala Trp Ser Leu Met Asp Gly Phe Glu
420 425 430

Trp His Arg Gly Tyr Ser Ile Arg Arg Gly Leu Phe Tyr Val Asp Phe
435 440 445

Leu Ser Gln Asp Lys Met Leu Leu Pro Lys Ser Ser Ala Leu Phe Tyr
450 455 460

Gln Lys Leu Ile Glu Lys Asn Gly Phe Pro Pro Leu Pro Glu Asn Gln
465 470 475 480

Pro Leu Glu Gly Thr Phe Pro Cys Asp Phe Ala Trp Gly Val Val Asp

485

490

495

Asn Tyr Ile Gln Val Asp Thr Thr Leu Ser Gln Phe Thr Asp Leu Asn
 500 505 510

Val Tyr Leu Trp Asp Val His His Ser Lys Arg Leu Ile Lys Val Asp
 515 520 525

Gly Val Val Thr Lys Lys Arg Lys Ser Tyr Cys Val Asp Phe Ala Ala
 530 535 540

Ile Gln Pro Gln Ile Ala Leu Leu Gln Glu Met His Val Thr His Phe
 545 550 555 560

Arg Phe Ser Leu Asp Trp Ala Leu Ile Leu Pro Leu Gly Asn Gln Ser
 565 570 575

Gln Val Asn His Thr Ile Leu Gln Tyr Tyr Arg Cys Met Ala Ser Glu
 580 585 590

Leu Val Arg Val Asn Ile Thr Pro Val Val Ala Leu Trp Gln Pro Met
 595 600 605

Ala Pro Asn Gln Gly Leu Pro Arg Leu Leu Ala Arg Gln Gly Ala Trp
 610 615 620

Glu Asn Pro Tyr Thr Ala Leu Ala Phe Ala Glu Tyr Ala Arg Leu Cys
 625 630 635 640

Phe Gln Glu Leu Gly His His Val Lys Leu Trp Ile Thr Met Asn Glu
 645 650 655

Pro Tyr Thr Arg Asn Met Thr Tyr Ser Ala Gly His Asn Leu Leu Lys
 660 665 670

Ala His Ala Leu Ala Trp His Val Tyr Asn Glu Lys Phe Arg His Ala
 675 680 685

Gln Asn Gly Lys Ile Ser Ile Ala Leu Gln Ala Asp Trp Ile Glu Pro
 690 695 700

Ala Cys Pro Phe Ser Gln Lys Asp Lys Glu Val Ala Glu Arg Val Leu
 705 710 715 720

Glu Phe Asp Ile Gly Trp Leu Ala Glu Pro Ile Phe Gly Ser Gly Asp
 725 730 735

Tyr Pro Trp Val Met Arg Asp Trp Leu Asn Gln Arg Asn Asn Phe Leu

740

745

750

Leu Pro Tyr Phe Thr Glu Asp Glu Lys Lys Leu Ile Gln Gly Thr Phe
 755 760 765

Asp Phe Leu Ala Leu Ser His Tyr Thr Thr Ile Leu Val Asp Ser Glu
 770 775 780

Lys Glu Asp Pro Ile Lys Tyr Asn Asp Tyr Leu Glu Val Gln Glu Met
 785 790 795 800

Thr Asp Ile Thr Trp Leu Asn Ser Pro Ser Gln Val Ala Val Val Pro
 805 810 815

Trp Gly Leu Arg Lys Val Leu Asn Trp Leu Lys Phe Lys Tyr Gly Asp
 820 825 830

Leu Pro Met Tyr Ile Ile Ser Asn Gly Ile Asp Asp Gly Leu His Ala
 835 840 845

Glu Asp Asp Gln Leu Arg Val Tyr Tyr Met Gln Asn Tyr Ile Asn Glu
 850 855 860

Ala Leu Lys Ala His Ile Leu Asp Gly Ile Asn Leu Cys Gly Tyr Phe
 865 870 875 880

Ala Tyr Ser Phe Asn Asp Arg Thr Ala Pro Arg Phe Gly Leu Tyr Arg
 885 890 895

Tyr Ala Ala Asp Gln Phe Glu Pro Lys Ala Ser Met Lys His Tyr Arg
 900 905 910

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

Phe Cys Pro Glu Glu Phe Thr Val Cys Thr Glu Cys Ser Phe Phe His
 930 935 940

Thr Arg Lys Ser Leu Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 945 950 955 960

Ser Gly Gly Gly Gly Ser Leu Lys Tyr Pro Asn Ala Ser Pro Leu Leu
 965 970 975

Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala Thr Ala Arg
 980 985 990

Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His Val Asp Gly Ala

995

1000

1005

Pro His Gln Thr Ile Tyr Ser Ala Leu Met Ile Arg Ser Glu Asp
 1010 1015 1020

Ala Gly Phe Val Val Ile Thr Gly Val Met Ser Arg Arg Tyr Leu
 1025 1030 1035

Cys Met Asp Phe Arg Gly Asn Ile Phe Gly Ser His Tyr Phe Asp
 1040 1045 1050

Pro Glu Asn Cys Arg Phe Gln His Gln Thr Leu Glu Asn Gly Tyr
 1055 1060 1065

Asp Val Tyr His Ser Pro Gln Tyr His Phe Leu Val Ser Leu Gly
 1070 1075 1080

Arg Ala Lys Arg Ala Phe Leu Pro Gly Met Asn Pro Pro Pro Tyr
 1085 1090 1095

Ser Gln Phe Leu Ser Arg Arg Asn Glu Ile Pro Leu Ile His Phe
 1100 1105 1110

Asn Thr Pro Ile Pro Arg Arg His Thr Gln Ser Ala Glu Asp Asp
 1115 1120 1125

Ser Glu Arg Asp Pro Leu Asn Val Leu Lys Pro Arg Ala Arg Met
 1130 1135 1140

Thr Pro Ala Pro Ala Ser Cys Ser Gln Glu Leu Pro Ser Ala Glu
 1145 1150 1155

Asp Asn Ser Pro Met Ala Ser Asp Pro Leu Gly Val Val Arg Gly
 1160 1165 1170

Gly Arg Val Asn Thr His Ala Gly Gly Thr Gly Pro Glu Gly Cys
 1175 1180 1185

Arg Pro Phe Ala Lys Phe Ile
 1190 1195

<210> 42

<211> 227

<212> PRT

<213> Homo Sapiens

<400> 42

Tyr Pro Asn Ala Ser Pro Leu Leu Gly Ser Ser Trp Gly Gly Leu Ile
 1 5 10 15

PhoenixTemp63617.tmp.txt

His Leu Tyr Thr Ala Thr Ala Arg Asn Ser Tyr His Leu Gln Ile His
20 25 30

Lys Asn Gly His Val Asp Gly Ala Pro His Gln Thr Ile Tyr Ser Ala
35 40 45

Leu Met Ile Arg Ser Glu Asp Ala Gly Phe Val Val Ile Thr Gly Val
50 55 60

Met Ser Arg Arg Tyr Leu Cys Met Asp Phe Arg Gly Asn Ile Phe Gly
65 70 75 80

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

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

Ser Leu Gly Arg Ala Lys Arg Ala Phe Leu Pro Gly Met Asn Pro Pro
115 120 125

Pro Tyr Ser Gln Phe Leu Ser Arg Arg Asn Glu Ile Pro Leu Ile His
130 135 140

Phe Asn Thr Pro Ile Pro Arg Arg His Thr Arg Ser Ala Glu Asp Asp
145 150 155 160

Ser Glu Arg Asp Pro Leu Asn Val Leu Lys Pro Arg Ala Arg Met Thr
165 170 175

Pro Ala Pro Ala Ser Cys Ser Gln Glu Leu Pro Ser Ala Glu Asp Asn
180 185 190

Ser Pro Met Ala Ser Asp Pro Leu Gly Val Val Arg Gly Gly Arg Val
195 200 205

Asn Thr His Ala Gly Gly Thr Gly Pro Glu Gly Cys Arg Pro Phe Ala
210 215 220

Lys Phe Ile
225

<210> 43
<211> 227
<212> PRT
<213> Homo Sapiens

<400> 43

PhoenixTemp63617.tmp.txt

Tyr Pro Asn Ala Ser Pro Leu Leu Gly Ser Ser Trp Gly Gly Leu Ile
1 5 10 15

His Leu Tyr Thr Ala Thr Ala Arg Asn Ser Tyr His Leu Gln Ile His
20 25 30

Lys Asn Gly His Val Asp Gly Ala Pro His Gln Thr Ile Tyr Ser Ala
35 40 45

Leu Met Ile Arg Ser Glu Asp Ala Gly Phe Val Val Ile Thr Gly Val
50 55 60

Met Ser Arg Arg Tyr Leu Cys Met Asp Phe Arg Gly Asn Ile Phe Gly
65 70 75 80

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

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

Ser Leu Gly Arg Ala Lys Arg Ala Phe Leu Pro Gly Met Asn Pro Pro
115 120 125

Pro Tyr Ser Gln Phe Leu Ser Arg Arg Asn Glu Ile Pro Leu Ile His
130 135 140

Phe Asn Thr Pro Ile Pro Arg Arg His Thr Gln Ser Ala Glu Asp Asp
145 150 155 160

Ser Glu Arg Asp Pro Leu Asn Val Leu Lys Pro Arg Ala Arg Met Thr
165 170 175

Pro Ala Pro Ala Ser Cys Ser Gln Glu Leu Pro Ser Ala Glu Asp Asn
180 185 190

Ser Pro Met Ala Ser Asp Pro Leu Gly Val Val Arg Gly Gly Arg Val
195 200 205

Asn Thr His Ala Gly Gly Thr Gly Pro Glu Gly Cys Arg Pro Phe Ala
210 215 220

Lys Phe Ile
225

<210> 44
<211> 982
<212> PRT

<213> Homo Sapiens

<400> 44

Met Pro Ala Ser Ala Pro Pro Arg Arg Pro Arg Pro Pro Pro Ser
 1 5 10 15

Leu Ser Leu Leu Leu Val Leu Leu Gly Leu Gly Gly Arg Arg Leu Arg
 20 25 30

Ala Glu Pro Gly Asp Gly Ala Gln Thr Trp Ala Arg Phe Ser Arg Pro
 35 40 45

Pro Ala Pro Glu Ala Ala Gly Leu Phe Gln Gly Thr Phe Pro Asp Gly
 50 55 60

Phe Leu Trp Ala Val Gly Ser Ala Ala Tyr Gln Thr Glu Gly Gly Trp
 65 70 75 80

Gln Gln His Gly Lys Gly Ala Ser Ile Trp Asp Thr Phe Thr His His
 85 90 95

Pro Leu Ala Pro Pro Gly Asp Ser Arg Asn Ala Ser Leu Pro Leu Gly
 100 105 110

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

Tyr Asn Asn Val Phe Arg Asp Thr Glu Ala Leu Arg Glu Leu Gly Val
 130 135 140

Thr His Tyr Arg Phe Ser Ile Ser Trp Ala Arg Val Leu Pro Asn Gly
 145 150 155 160

Ser Ala Gly Val Pro Asn Arg Glu Gly Leu Arg Tyr Tyr Arg Arg Leu
 165 170 175

Leu Glu Arg Leu Arg Glu Leu Gly Val Gln Pro Val Val Thr Leu Tyr
 180 185 190

His Trp Asp Leu Pro Gln Arg Leu Gln Asp Ala Tyr Gly Gly Trp Ala
 195 200 205

Asn Arg Ala Leu Ala Asp His Phe Arg Asp Tyr Ala Glu Leu Cys Phe
 210 215 220

Arg His Phe Gly Gly Gln Val Lys Tyr Trp Ile Thr Ile Asp Asn Pro
 225 230 235 240

PhoenixTemp63617.tmp.txt

Tyr Val Val Ala Trp His Gly Tyr Ala Thr Gly Arg Leu Ala Pro Gly
 245 250 255

 Ile Arg Gly Ser Pro Arg Leu Gly Tyr Leu Val Ala His Asn Leu Leu
 260 265 270

 Leu Ala His Ala Lys Val Trp His Leu Tyr Asn Thr Ser Phe Arg Pro
 275 280 285

 Thr Gln Gly Gly Gln Val Ser Ile Ala Leu Ser Ser His Trp Ile Asn
 290 295 300

 Pro Arg Arg Met Thr Asp His Ser Ile Lys Glu Cys Gln Lys Ser Leu
 305 310 315 320

 Asp Phe Val Leu Gly Trp Phe Ala Lys Pro Val Phe Ile Asp Gly Asp
 325 330 335

 Tyr Pro Glu Ser Met Lys Asn Asn Leu Ser Ser Ile Leu Pro Asp Phe
 340 345 350

 Thr Glu Ser Glu Lys Lys Phe Ile Lys Gly Thr Ala Asp Phe Phe Ala
 355 360 365

 Leu Cys Phe Gly Pro Thr Leu Ser Phe Gln Leu Leu Asp Pro His Met
 370 375 380

 Lys Phe Arg Gln Leu Glu Ser Pro Asn Leu Arg Gln Leu Leu Ser Trp
 385 390 395 400

 Ile Asp Leu Glu Phe Asn His Pro Gln Ile Phe Ile Val Glu Asn Gly
 405 410 415

 Trp Phe Val Ser Gly Thr Thr Lys Arg Asp Asp Ala Lys Tyr Met Tyr
 420 425 430

 Tyr Leu Lys Lys Phe Ile Met Glu Thr Leu Lys Ala Ile Lys Leu Asp
 435 440 445

 Gly Val Asp Val Ile Gly Tyr Thr Ala Trp Ser Leu Met Asp Gly Phe
 450 455 460

 Glu Trp His Arg Gly Tyr Ser Ile Arg Arg Gly Leu Phe Tyr Val Asp
 465 470 475 480

 Phe Leu Ser Gln Asp Lys Met Leu Leu Pro Lys Ser Ser Ala Leu Phe
 485 490 495

PhoenixTemp63617.tmp.txt

Tyr Gln Lys Leu Ile Glu Lys Asn Gly Phe Pro Pro Leu Pro Glu Asn
 500 505 510

Gln Pro Leu Glu Gly Thr Phe Pro Cys Asp Phe Ala Trp Gly Val Val
 515 520 525

Asp Asn Tyr Ile Gln Val Asp Thr Thr Leu Ser Gln Phe Thr Asp Leu
 530 535 540

Asn Val Tyr Leu Trp Asp Val His His Ser Lys Arg Leu Ile Lys Val
 545 550 555 560

Asp Gly Val Val Thr Lys Lys Arg Lys Ser Tyr Cys Val Asp Phe Ala
 565 570 575

Ala Ile Gln Pro Gln Ile Ala Leu Leu Gln Glu Met His Val Thr His
 580 585 590

Phe Arg Phe Ser Leu Asp Trp Ala Leu Ile Leu Pro Leu Gly Asn Gln
 595 600 605

Ser Gln Val Asn His Thr Ile Leu Gln Tyr Tyr Arg Cys Met Ala Ser
 610 615 620

Glu Leu Val Arg Val Asn Ile Thr Pro Val Val Ala Leu Trp Gln Pro
 625 630 635 640

Met Ala Pro Asn Gln Gly Leu Pro Arg Leu Leu Ala Arg Gln Gly Ala
 645 650 655

Trp Glu Asn Pro Tyr Thr Ala Leu Ala Phe Ala Glu Tyr Ala Arg Leu
 660 665 670

Cys Phe Gln Glu Leu Gly His His Val Lys Leu Trp Ile Thr Met Asn
 675 680 685

Glu Pro Tyr Thr Arg Asn Met Thr Tyr Ser Ala Gly His Asn Leu Leu
 690 695 700

Lys Ala His Ala Leu Ala Trp His Val Tyr Asn Glu Lys Phe Arg His
 705 710 715 720

Ala Gln Asn Gly Lys Ile Ser Ile Ala Leu Gln Ala Asp Trp Ile Glu
 725 730 735

Pro Ala Cys Pro Phe Ser Gln Lys Asp Lys Glu Val Ala Glu Arg Val
 740 745 750

PhoenixTemp63617.tmp.txt

Leu Glu Phe Asp Ile Gly Trp Leu Ala Glu Pro Ile Phe Gly Ser Gly
 755 760 765

Asp Tyr Pro Trp Val Met Arg Asp Trp Leu Asn Gln Arg Asn Asn Phe
 770 775 780

Leu Leu Pro Tyr Phe Thr Glu Asp Glu Lys Lys Leu Ile Gln Gly Thr
 785 790 795 800

Phe Asp Phe Leu Ala Leu Ser His Tyr Thr Thr Ile Leu Val Asp Ser
 805 810 815

Glu Lys Glu Asp Pro Ile Lys Tyr Asn Asp Tyr Leu Glu Val Gln Glu
 820 825 830

Met Thr Asp Ile Thr Trp Leu Asn Ser Pro Ser Gln Val Ala Val Val
 835 840 845

Pro Trp Gly Leu Arg Lys Val Leu Asn Trp Leu Lys Phe Lys Tyr Gly
 850 855 860

Asp Leu Pro Met Tyr Ile Ile Ser Asn Gly Ile Asp Asp Gly Leu His
 865 870 875 880

Ala Glu Asp Asp Gln Leu Arg Val Tyr Tyr Met Gln Asn Tyr Ile Asn
 885 890 895

Glu Ala Leu Lys Ala His Ile Leu Asp Gly Ile Asn Leu Cys Gly Tyr
 900 905 910

Phe Ala Tyr Ser Phe Asn Asp Arg Thr Ala Pro Arg Phe Gly Leu Tyr
 915 920 925

Arg Tyr Ala Ala Asp Gln Phe Glu Pro Lys Ala Ser Met Lys His Tyr
 930 935 940

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

Arg Phe Cys Pro Glu Glu Phe Thr Val Cys Thr Glu Cys Ser Phe Phe
 965 970 975

His Thr Arg Lys Ser Leu
 980

<210> 45
 <211> 974
 <212> PRT
 <213> Homo Sapiens

<400> 45

Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr
 1 5 10 15

Gly Leu Gly Gly Arg Arg Leu Arg Ala Glu Pro Gly Asp Gly Ala Gln
 20 25 30

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

Phe Gln Gly Thr Phe Pro Asp Gly Phe Leu Trp Ala Val Gly Ser Ala
 50 55 60

Ala Tyr Gln Thr Glu Gly Gly Trp Gln Gln His Gly Lys Gly Ala Ser
 65 70 75 80

Ile Trp Asp Thr Phe Thr His His Pro Leu Ala Pro Pro Gly Asp Ser
 85 90 95

Arg Asn Ala Ser Leu Pro Leu Gly Ala Pro Ser Pro Leu Gln Pro Ala
 100 105 110

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

Glu Ala Leu Arg Glu Leu Gly Val Thr His Tyr Arg Phe Ser Ile Ser
 130 135 140

Trp Ala Arg Val Leu Pro Asn Gly Ser Ala Gly Val Pro Asn Arg Glu
 145 150 155 160

Gly Leu Arg Tyr Tyr Arg Arg Leu Leu Glu Arg Leu Arg Glu Leu Gly
 165 170 175

Val Gln Pro Val Val Thr Leu Tyr His Trp Asp Leu Pro Gln Arg Leu
 180 185 190

Gln Asp Ala Tyr Gly Gly Trp Ala Asn Arg Ala Leu Ala Asp His Phe
 195 200 205

Arg Asp Tyr Ala Glu Leu Cys Phe Arg His Phe Gly Gly Gln Val Lys
 210 215 220

Tyr Trp Ile Thr Ile Asp Asn Pro Tyr Val Val Ala Trp His Gly Tyr
 225 230 235 240

Ala Thr Gly Arg Leu Ala Pro Gly Ile Arg Gly Ser Pro Arg Leu Gly

245

250

255

Tyr Leu Val Ala His Asn Leu Leu Leu Ala His Ala Lys Val Trp His
 260 265 270

Leu Tyr Asn Thr Ser Phe Arg Pro Thr Gln Gly Gly Gln Val Ser Ile
 275 280 285

Ala Leu Ser Ser His Trp Ile Asn Pro Arg Arg Met Thr Asp His Ser
 290 295 300

Ile Lys Glu Cys Gln Lys Ser Leu Asp Phe Val Leu Gly Trp Phe Ala
 305 310 315 320

Lys Pro Val Phe Ile Asp Gly Asp Tyr Pro Glu Ser Met Lys Asn Asn
 325 330 335

Leu Ser Ser Ile Leu Pro Asp Phe Thr Glu Ser Glu Lys Lys Phe Ile
 340 345 350

Lys Gly Thr Ala Asp Phe Phe Ala Leu Cys Phe Gly Pro Thr Leu Ser
 355 360 365

Phe Gln Leu Leu Asp Pro His Met Lys Phe Arg Gln Leu Glu Ser Pro
 370 375 380

Asn Leu Arg Gln Leu Leu Ser Trp Ile Asp Leu Glu Phe Asn His Pro
 385 390 395 400

Gln Ile Phe Ile Val Glu Asn Gly Trp Phe Val Ser Gly Thr Thr Lys
 405 410 415

Arg Asp Asp Ala Lys Tyr Met Tyr Tyr Leu Lys Lys Phe Ile Met Glu
 420 425 430

Thr Leu Lys Ala Ile Lys Leu Asp Gly Val Asp Val Ile Gly Tyr Thr
 435 440 445

Ala Trp Ser Leu Met Asp Gly Phe Glu Trp His Arg Gly Tyr Ser Ile
 450 455 460

Arg Arg Gly Leu Phe Tyr Val Asp Phe Leu Ser Gln Asp Lys Met Leu
 465 470 475 480

Leu Pro Lys Ser Ser Ala Leu Phe Tyr Gln Lys Leu Ile Glu Lys Asn
 485 490 495

Gly Phe Pro Pro Leu Pro Glu Asn Gln Pro Leu Glu Gly Thr Phe Pro

500

505

510

Cys Asp Phe Ala Trp Gly Val Val Asp Asn Tyr Ile Gln Val Asp Thr
 515 520 525

Thr Leu Ser Gln Phe Thr Asp Leu Asn Val Tyr Leu Trp Asp Val His
 530 535 540

His Ser Lys Arg Leu Ile Lys Val Asp Gly Val Val Thr Lys Lys Arg
 545 550 555 560

Lys Ser Tyr Cys Val Asp Phe Ala Ala Ile Gln Pro Gln Ile Ala Leu
 565 570 575

Leu Gln Glu Met His Val Thr His Phe Arg Phe Ser Leu Asp Trp Ala
 580 585 590

Leu Ile Leu Pro Leu Gly Asn Gln Ser Gln Val Asn His Thr Ile Leu
 595 600 605

Gln Tyr Tyr Arg Cys Met Ala Ser Glu Leu Val Arg Val Asn Ile Thr
 610 615 620

Pro Val Val Ala Leu Trp Gln Pro Met Ala Pro Asn Gln Gly Leu Pro
 625 630 635 640

Arg Leu Leu Ala Arg Gln Gly Ala Trp Glu Asn Pro Tyr Thr Ala Leu
 645 650 655

Ala Phe Ala Glu Tyr Ala Arg Leu Cys Phe Gln Glu Leu Gly His His
 660 665 670

Val Lys Leu Trp Ile Thr Met Asn Glu Pro Tyr Thr Arg Asn Met Thr
 675 680 685

Tyr Ser Ala Gly His Asn Leu Leu Lys Ala His Ala Leu Ala Trp His
 690 695 700

Val Tyr Asn Glu Lys Phe Arg His Ala Gln Asn Gly Lys Ile Ser Ile
 705 710 715 720

Ala Leu Gln Ala Asp Trp Ile Glu Pro Ala Cys Pro Phe Ser Gln Lys
 725 730 735

Asp Lys Glu Val Ala Glu Arg Val Leu Glu Phe Asp Ile Gly Trp Leu
 740 745 750

Ala Glu Pro Ile Phe Gly Ser Gly Asp Tyr Pro Trp Val Met Arg Asp

755

760

765

Trp Leu Asn Gln Arg Asn Asn Phe Leu Leu Pro Tyr Phe Thr Glu Asp
 770 775 780

Glu Lys Lys Leu Ile Gln Gly Thr Phe Asp Phe Leu Ala Leu Ser His
 785 790 795 800

Tyr Thr Thr Ile Leu Val Asp Ser Glu Lys Glu Asp Pro Ile Lys Tyr
 805 810 815

Asn Asp Tyr Leu Glu Val Gln Glu Met Thr Asp Ile Thr Trp Leu Asn
 820 825 830

Ser Pro Ser Gln Val Ala Val Val Pro Trp Gly Leu Arg Lys Val Leu
 835 840 845

Asn Trp Leu Lys Phe Lys Tyr Gly Asp Leu Pro Met Tyr Ile Ile Ser
 850 855 860

Asn Gly Ile Asp Asp Gly Leu His Ala Glu Asp Asp Gln Leu Arg Val
 865 870 875 880

Tyr Tyr Met Gln Asn Tyr Ile Asn Glu Ala Leu Lys Ala His Ile Leu
 885 890 895

Asp Gly Ile Asn Leu Cys Gly Tyr Phe Ala Tyr Ser Phe Asn Asp Arg
 900 905 910

Thr Ala Pro Arg Phe Gly Leu Tyr Arg Tyr Ala Ala Asp Gln Phe Glu
 915 920 925

Pro Lys Ala Ser Met Lys His Tyr Arg Lys Ile Ile Asp Ser Asn Gly
 930 935 940

Phe Pro Gly Pro Glu Thr Leu Glu Arg Phe Cys Pro Glu Glu Phe Thr
 945 950 955 960

Val Cys Thr Glu Cys Ser Phe Phe His Thr Arg Lys Ser Leu
 965 970