841-026-PCT SEQ LISTING

SEQUENCE LISTING

<110> Epshtein, Oleg Iliich

<120> New Invention Title

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<170> BiSSAP 1.0

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Leu Gln Ile Leu Leu Met Phe Lys Thr Arg Pro Glu Asp Phe Arg Asp
        35                  40                  45
Leu Ser Phe Pro Lys Leu Ile Met Ile Thr Asp Tyr Leu Leu Leu Phe
    50                  55                  60
Arg Val Tyr Gly Leu Glu Ser Leu Lys Asp Leu Phe Pro Asn Leu Thr
65                  70                  75                  80
Val Ile Arg Gly Ser Arg Leu Phe Phe Asn Tyr Ala Leu Val Ile Phe
                85                  90                  95
Glu Met Val His Leu Lys Glu Leu Gly Leu Tyr Asn Leu Met Asn Ile
            100                 105                 110
Thr Arg Gly Ser Val Arg Ile Glu Lys Asn Asn Glu Leu Cys Tyr Leu
        115                 120                 125
Ala Thr Ile Asp Trp Ser Arg Ile Leu Asp Ser Val Glu Asp Asn Tyr
    130                 135                 140
Ile Val Leu Asn Lys Asp Asp Asn Glu Glu Cys Gly Asp Ile Cys Pro
145                 150                 155                 160
Gly Thr Ala Lys Gly Lys Thr Asn Cys Pro Ala Thr Val Ile Asn Gly
                165                 170                 175
Gln Phe Val Glu Arg Cys Trp Thr His Ser His Cys Gln Lys Val Cys
            180                 185                 190
Pro Thr Ile Cys Lys Ser His Gly Cys Thr Ala Glu Gly Leu Cys Cys
        195                 200                 205
His Ser Glu Cys Leu Gly Asn Cys Ser Gln Pro Asp Asp Pro Thr Lys
    210                 215                 220
Cys Val Ala Cys Arg Asn Phe Tyr Leu Asp Gly Arg Cys Val Glu Thr
225                 230                 235                 240
Cys Pro Pro Pro Tyr Tyr His Phe Gln Asp Trp Arg Cys Val Asn Phe
                245                 250                 255
Ser Phe Cys Gln Asp Leu His His Lys Cys Lys Asn Ser Arg Arg Gln
            260                 265                 270
Gly Cys His Gln Tyr Val Ile His Asn Asn Lys Cys Ile Pro Glu Cys
        275                 280                 285
Pro Ser Gly Tyr Thr Met Asn Ser Ser Asn Leu Leu Cys Thr Pro Cys
    290                 295                 300
Leu Gly Pro Cys Pro Lys Val Cys His Leu Leu Glu Gly Glu Lys Thr
305                 310                 315                 320
Ile Asp Ser Val Thr Ser Ala Gln Glu Leu Arg Gly Cys Thr Val Ile
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Glu Leu Glu Ala Asn Leu Gly Leu Ile Glu Glu Ile Ser Gly Tyr Leu
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Lys Ile Arg Arg Ser Tyr Ala Leu Val Ser Leu Ser Phe Phe Arg Lys
370 375 380
Leu Arg Leu Ile Arg Gly Glu Thr Leu Glu Ile Gly Asn Tyr Ser Phe
385 390 395 400
Tyr Ala Leu Asp Asn Gln Asn Leu Arg Gln Leu Trp Asp Trp Ser Lys
405 410 415
His Asn Leu Thr Ile Thr Gln Gly Lys Leu Phe Phe His Tyr Asn Pro
420 425 430
Lys Leu Cys Leu Ser Glu Ile His Lys Met Glu Glu Val Ser Gly Thr
435 440 445
Lys Gly Arg Gln Glu Arg Asn Asp Ile Ala Leu Lys Thr Asn Gly Asp
450 455 460
Gln Ala Ser Cys Glu Asn Glu Leu Leu Lys Phe Ser Tyr Ile Arg Thr
465 470 475 480
Ser Phe Asp Lys Ile Leu Leu Arg Trp Glu Pro Tyr Trp Pro Pro Asp
485 490 495
Phe Arg Asp Leu Leu Gly Phe Met Leu Phe Tyr Lys Glu Ala Pro Tyr
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Gln Asn Val Thr Glu Phe Asp Gly Gln Asp Ala Cys Gly Ser Asn Ser
515 520 525
Trp Thr Val Val Asp Ile Asp Pro Pro Leu Arg Ser Asn Asp Pro Lys
530 535 540
Ser Gln Asn His Pro Gly Trp Leu Met Arg Gly Leu Lys Pro Trp Thr
545 550 555 560
Gln Tyr Ala Ile Phe Val Lys Thr Leu Val Thr Phe Ser Asp Glu Arg
565 570 575
Arg Thr Tyr Gly Ala Lys Ser Asp Ile Ile Tyr Val Gln Thr Asp Ala
580 585 590
Thr Asn Pro Ser Val Pro Leu Asp Pro Ile Ser Val Ser Asn Ser Ser
595 600 605
Ser Gln Ile Ile Leu Lys Trp Lys Pro Pro Ser Asp Pro Asn Gly Asn
610 615 620
Ile Thr His Tyr Leu Val Phe Trp Glu Arg Gln Ala Glu Asp Ser Glu
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645 650 655
Thr Trp Ser Pro Pro Phe Glu Ser Glu Asp Ser Gln Lys His Asn Gln
660 665 670
Ser Glu Tyr Glu Asp Ser Ala Gly Glu Cys Cys Ser Cys Pro Lys Thr
675 680 685
Asp Ser Gln Ile Leu Lys Glu Leu Glu Glu Ser Ser Phe Arg Lys Thr
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Gln Ile

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

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                245                 250                 255
Ser Arg Glu Lys Ile Thr Leu Leu Arg Glu Leu Gly Gln Gly Ser Phe
            260                 265                 270
Gly Met Val Tyr Glu Gly Asn Ala Arg Asp Ile Ile Lys Gly Glu Ala
        275                 280                 285
Glu Thr Arg Val Ala Val Lys Thr Val Asn Glu Ser Ala Ser Leu Arg
    290                 295                 300
Glu Arg Ile Glu Phe Leu Asn Glu Ala Ser Val Met Lys Gly Phe Thr
305                 310                 315                 320
Cys His His Val Val Arg Leu Leu Gly Val Val Ser Lys Gly Gln Pro
                325                 330                 335
Thr Leu Val Val Met Glu Leu Met Ala His Gly Asp Leu Lys Ser Tyr
            340                 345                 350
Leu Arg Ser Leu Arg Pro Glu Ala Glu Asn Asn Pro Gly Arg Pro Pro
        355                 360                 365
Pro Thr Leu Gln Glu Met Ile Gln Met Ala Ala Glu Ile Ala Asp Gly
    370                 375                 380
Met Ala Tyr Leu Asn Ala Lys Lys Phe Val His Arg Asp Leu Ala Ala
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                405                 410                 415
Gly Met Thr Arg Asp Ile Tyr Glu Thr Asp Tyr Tyr Arg Lys Gly Gly
            420                 425                 430
Lys Gly Leu Leu Pro Val Arg Trp Met Ala Pro Glu Ser Leu Lys Asp
        435                 440                 445
Gly Val Phe Thr Thr Ser Ser Asp Met Trp Ser Phe Gly Val Val Leu
    450                 455                 460
Trp Glu Ile Thr Ser Leu Ala Glu Gln Pro Tyr Gln Gly Leu Ser Asn
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Glu Gln Val Leu Lys Phe Val Met Asp Gly Gly Tyr Leu Asp Gln Pro
                485                 490                 495
Asp Asn Cys Pro Glu Arg Val Thr Asp Leu Met Arg Met Cys Trp Gln
            500                 505                 510
Phe Asn Pro Lys Met Arg Pro Thr Phe Leu Glu Ile Val Asn Leu Leu
        515                 520                 525
Lys Asp Asp Leu His Pro Ser Phe Pro Glu Val Ser Phe Phe His Ser
    530                 535                 540
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545                 550                 555                 560
Asp Met Glu Asn Val Pro Leu Asp Arg Ser Ser His Cys Gln Arg Glu
                565                 570                 575
Glu Ala Gly Gly Arg Asp Gly Gly Ser Ser Leu Gly Phe Lys Arg Ser
            580                 585                 590
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Gly Arg Ile Leu Thr Leu Pro Arg Ser Asn Pro Ser
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1 5 10

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1 5

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1 5 10 15
Ser

<210> 13
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Glu Val Cys Pro Gly Met Asp Ile Arg Asn Asn Leu Thr Arg Leu His
        35                  40                  45
Glu Leu Glu Asn Cys Ser Val Ile Glu Gly His Leu Gln Ile Leu Leu
    50                  55                  60
Met Phe Lys Thr Arg Pro Glu Asp Phe Arg Asp Leu Ser Phe Pro Lys
65                  70                  75                  80
Leu Ile Met Ile Thr Asp Tyr Leu Leu Leu Phe Arg Val Tyr Gly Leu
                85                  90                  95
Glu Ser Leu Lys Asp Leu Phe Pro Asn Leu Thr Val Ile Arg Gly Ser
            100                 105                 110
Arg Leu Phe Phe Asn Tyr Ala Leu Val Ile Phe Glu Met Val His Leu
        115                 120                 125
Lys Glu Leu Gly Leu Tyr Asn Leu Met Asn Ile Thr Arg Gly Ser Val
    130                 135                 140
Arg Ile Glu Lys Asn Asn Glu Leu Cys Tyr Leu Ala Thr Ile Asp Trp
145                 150                 155                 160
Ser Arg Ile Leu Asp Ser Val Glu Asp Asn Tyr Ile Val Leu Asn Lys
                165                 170                 175
Asp Asp Asn Glu Glu Cys Gly Asp Ile Cys Pro Gly Thr Ala Lys Gly
            180                 185                 190
Lys Thr Asn Cys Pro Ala Thr Val Ile Asn Gly Gln Phe Val Glu Arg
        195                 200                 205
Cys Trp Thr His Ser His Cys Gln Lys Val Cys Pro Thr Ile Cys Lys
    210                 215                 220
Ser His Gly Cys Thr Ala Glu Gly Leu Cys Cys His Ser Glu Cys Leu
225                 230                 235                 240
Gly Asn Cys Ser Gln Pro Asp Asp Pro Thr Lys Cys Val Ala Cys Arg
                245                 250                 255
Asn Phe Tyr Leu Asp Gly Arg Cys Val Glu Thr Cys Pro Pro Pro Tyr
            260                 265                 270
Tyr His Phe Gln Asp Trp Arg Cys Val Asn Phe Ser Phe Cys Gln Asp
        275                 280                 285
Leu His His Lys Cys Lys Asn Ser Arg Arg Gln Gly Cys His Gln Tyr
    290                 295                 300
Val Ile His Asn Asn Lys Cys Ile Pro Glu Cys Pro Ser Gly Tyr Thr
305                 310                 315                 320
Met Asn Ser Ser Asn Leu Leu Cys Thr Pro Cys Leu Gly Pro Cys Pro
                325                 330                 335
Lys Val Cys His Leu Leu Glu Gly Glu Lys Thr Ile Asp Ser Val Thr
            340                 345                 350
Ser Ala Gln Glu Leu Arg Gly Cys Thr Val Ile Asn Gly Ser Leu Ile
        355                 360                 365
Ile Asn Ile Arg Gly Gly Asn Asn Leu Ala Ala Glu Leu Glu Ala Asn
    370                 375                 380
Leu Gly Leu Ile Glu Glu Ile Ser Gly Tyr Leu Lys Ile Arg Arg Ser
385                 390                 395                 400
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Tyr Ala Leu Val Ser Leu Ser Phe Phe Arg Lys Leu Arg Leu Ile Arg
405 410 415
Gly Glu Thr Leu Glu Ile Gly Asn Tyr Ser Phe Tyr Ala Leu Asp Asn
420 425 430
Gln Asn Leu Arg Gln Leu Trp Asp Trp Ser Lys His Asn Leu Thr Ile
435 440 445
Thr Gln Gly Lys Leu Phe Phe His Tyr Asn Pro Lys Leu Cys Leu Ser
450 455 460
Glu Ile His Lys Met Glu Glu Val Ser Gly Thr Lys Gly Arg Gln Glu
465 470 475 480
Arg Asn Asp Ile Ala Leu Lys Thr Asn Gly Asp Gln Ala Ser Cys Glu
485 490 495
Asn Glu Leu Leu Lys Phe Ser Tyr Ile Arg Thr Ser Phe Asp Lys Ile
500 505 510
Leu Leu Arg Trp Glu Pro Tyr Trp Pro Pro Asp Phe Arg Asp Leu Leu
515 520 525
Gly Phe Met Leu Phe Tyr Lys Glu Ala Pro Tyr Gln Asn Val Thr Glu
530 535 540
Phe Asp Gly Gln Asp Ala Cys Gly Ser Asn Ser Trp Thr Val Val Asp
545 550 555 560
Ile Asp Pro Pro Leu Arg Ser Asn Asp Pro Lys Ser Gln Asn His Pro
565 570 575
Gly Trp Leu Met Arg Gly Leu Lys Pro Trp Thr Gln Tyr Ala Ile Phe
580 585 590
Val Lys Thr Leu Val Thr Phe Ser Asp Glu Arg Arg Thr Tyr Gly Ala
595 600 605
Lys Ser Asp Ile Ile Tyr Val Gln Thr Asp Ala Thr Asn Pro Ser Val
610 615 620
Pro Leu Asp Pro Ile Ser Val Ser Asn Ser Ser Ser Gln Ile Ile Leu
625 630 635 640
Lys Trp Lys Pro Pro Ser Asp Pro Asn Gly Asn Ile Thr His Tyr Leu
645 650 655
Val Phe Trp Glu Arg Gln Ala Glu Asp Ser Glu Leu Phe Glu Leu Asp
660 665 670
Tyr Cys Leu Lys Gly Leu Lys Leu Pro Ser Arg Thr Trp Ser Pro Pro
675 680 685
Phe Glu Ser Glu Asp Ser Gln Lys His Asn Gln Ser Glu Tyr Glu Asp
690 695 700
Ser Ala Gly Glu Cys Cys Ser Cys Pro Lys Thr Asp Ser Gln Ile Leu
705 710 715 720
Lys Glu Leu Glu Glu Ser Ser Phe Arg Lys Thr Phe Glu Asp Tyr Leu
725 730 735
His Asn Val Val Phe Val Pro Arg Lys Thr Ser Ser Gly Thr Gly Ala
740 745 750
Glu Asp Pro Arg Pro Ser Arg Lys Arg Arg Ser Leu Gly Asp Val Gly
755 760 765
Asn Val Thr Val Ala Val Pro Thr Val Ala Ala Phe Pro Asn Thr Ser
770 775 780
Ser Thr Ser Val Pro Thr Ser Pro Glu Glu His Arg Pro Phe Glu Lys
785 790 795 800
Val Val Asn Lys Glu Ser Leu Val Ile Ser Gly Leu Arg His Phe Thr
805 810 815
Gly Tyr Arg Ile Glu Leu Gln Ala Cys Asn Gln Asp Thr Pro Glu Glu
820 825 830
Arg Cys Ser Val Ala Ala Tyr Val Ser Ala Arg Thr Met Pro Glu Ala
835 840 845
Lys Ala Asp Asp Ile Val Gly Pro Val Thr His Glu Ile Phe Glu Asn
850 855 860
Asn Val Val His Leu Met Trp Gln Glu Pro Lys Glu Pro Asn Gly Leu
865 870 875 880
Ile Val Leu Tyr Glu Val Ser Tyr Arg Arg Tyr Gly Asp Glu Glu Leu
885 890 895
His Leu Cys Val Ser Arg Lys His Phe Ala Leu Glu Arg Gly Cys Arg

900 905 910
Leu Arg Gly Leu Ser Pro Gly Asn Tyr Ser Val Arg Ile Arg Ala Thr
915 920 925
Ser Leu Ala Gly Asn Gly Ser Trp Thr Glu Pro Thr Tyr Phe Tyr Val
930 935 940
Thr Asp Tyr Leu Asp Val Pro Ser Asn Ile Ala Lys Ile Ile Ile Gly
945 950 955 960
Pro Leu Ile Phe Val Phe Leu Phe Ser Val Val Ile Gly Ser Ile Tyr
965 970 975
Leu Phe Leu Arg Lys Arg Gln Pro Asp Gly Pro Leu Gly Pro Leu Tyr
980 985 990
Ala Ser Ser Asn Pro Glu Tyr Leu Ser Ala Ser Asp Val Phe Pro Cys
995 1000 1005
Ser Val Tyr Val Pro Asp Glu Trp Glu Val Ser Arg Glu Lys Ile Thr
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Leu Met Ala His Gly Asp Leu Lys Ser Tyr Leu Arg Ser Leu Arg Pro
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Glu Ala Glu Asn Asn Pro Gly Arg Pro Pro Pro Thr Leu Gln Glu Met
1125 1130 1135
Ile Gln Met Ala Ala Glu Ile Ala Asp Gly Met Ala Tyr Leu Asn Ala
1140 1145 1150
Lys Lys Phe Val His Arg Asp Leu Ala Ala Arg Asn Cys Met Val Ala
1155 1160 1165
His Asp Phe Thr Val Lys Ile Gly Asp Phe Gly Met Thr Arg Asp Ile
1170 1175 1180
Tyr Glu Thr Asp Tyr Tyr Arg Lys Gly Gly Lys Gly Leu Leu Pro Val
1185 1190 1195 1200
Arg Trp Met Ala Pro Glu Ser Leu Lys Asp Gly Val Phe Thr Thr Ser
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Ser Asp Met Trp Ser Phe Gly Val Val Leu Trp Glu Ile Thr Ser Leu
1220 1225 1230
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1235 1240 1245
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1250 1255 1260
Val Thr Asp Leu Met Arg Met Cys Trp Gln Phe Asn Pro Lys Met Arg
1265 1270 1275 1280
Pro Thr Phe Leu Glu Ile Val Asn Leu Leu Lys Asp Asp Leu His Pro
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Ser Phe Pro Glu Val Ser Phe Phe His Ser Glu Glu Asn Lys Ala Pro
1300 1305 1310
Glu Ser Glu Glu Leu Glu Met Glu Phe Glu Asp Met Glu Asn Val Pro
1315 1320 1325
Leu Asp Arg Ser Ser His Cys Gln Arg Glu Glu Ala Gly Gly Arg Asp
1330 1335 1340
Gly Gly Ser Ser Leu Gly Phe Lys Arg Ser Tyr Glu Glu His Ile Pro
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Tyr Thr His Met Asn Gly Gly Lys Lys Asn Gly Arg Ile Leu Thr Leu
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        35                  40                  45
Ala Pro Asp His Ser Pro Ala Pro Asn Ser Pro Thr Leu Thr Arg Pro
    50                  55                  60
Pro Glu Gly Pro Lys Phe Pro Arg Val Lys Asn Trp Glu Leu Gly Ser
65                  70                  75                  80
Ile Thr Tyr Asp Thr Leu Cys Ala Gln Ser Gln Gln Asp Gly Pro Cys
                85                  90                  95
Thr Pro Arg Cys Cys Leu Gly Ser Leu Val Leu Pro Arg Lys Leu Gln
            100                 105                 110
Thr Arg Pro Ser Pro Gly Pro Pro Pro Ala Glu Gln Leu Leu Ser Gln
        115                 120                 125
Ala Arg Asp Phe Ile Asn Gln Tyr Tyr Ser Ser Ile Lys Arg Ser Gly
    130                 135                 140
Ser Gln Ala His Glu Glu Arg Leu Gln Glu Val Glu Ala Glu Val Ala
145                 150                 155                 160
Ser Thr Gly Thr Tyr His Leu Arg Glu Ser Glu Leu Val Phe Gly Ala
                165                 170                 175
Lys Gln Ala Trp Arg Asn Ala Pro Arg Cys Val Gly Arg Ile Gln Trp
            180                 185                 190
Gly Lys Leu Gln Val Phe Asp Ala Arg Asp Cys Ser Ser Ala Gln Glu
        195                 200                 205
Met Phe Thr Tyr Ile Cys Asn His Ile Lys Tyr Ala Thr Asn Arg Gly
    210                 215                 220
Asn Leu Arg Ser Ala Ile Thr Val Phe Pro Gln Arg Ala Pro Gly Arg
225                 230                 235                 240
Gly Asp Phe Arg Ile Trp Asn Ser Gln Leu Val Arg Tyr Ala Gly Tyr
                245                 250                 255
Arg Gln Gln Asp Gly Ser Val Arg Gly Asp Pro Ala Asn Val Glu Ile
            260                 265                 270
Thr Glu Leu Cys Ile Gln His Gly Trp Thr Pro Gly Asn Gly Arg Phe
        275                 280                 285
Asp Val Leu Pro Leu Leu Leu Gln Ala Pro Asp Glu Ala Pro Glu Leu
    290                 295                 300
Phe Val Leu Pro Pro Glu Leu Val Leu Glu Val Pro Leu Glu His Pro
305                 310                 315                 320
Thr Leu Glu Trp Phe Ala Ala Leu Gly Leu Arg Trp Tyr Ala Leu Pro
                325                 330                 335
Ala Val Ser Asn Met Leu Leu Glu Ile Gly Gly Leu Glu Phe Ser Ala
            340                 345                 350
Ala Pro Phe Ser Gly Trp Tyr Met Ser Thr Glu Ile Gly Thr Arg Asn
        355                 360                 365
Leu Cys Asp Pro His Arg Tyr Asn Ile Leu Glu Asp Val Ala Val Cys
    370                 375                 380
Met Asp Leu Asp Thr Arg Thr Thr Ser Ser Leu Trp Lys Asp Lys Ala
385                 390                 395                 400
Ala Val Glu Ile Asn Leu Ala Val Leu His Ser Phe Gln Leu Ala Lys
                405                 410                 415
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Val Thr Ile Val Asp His His Ala Ala Thr Val Ser Phe Met Lys His
420 425 430
Leu Asp Asn Glu Gln Lys Ala Arg Gly Gly Cys Pro Ala Asp Trp Ala
435 440 445
Trp Ile Val Pro Pro Ile Ser Gly Ser Leu Thr Pro Val Phe His Gln
450 455 460
Glu Met Val Asn Tyr Ile Leu Ser Pro Ala Phe Arg Tyr Gln Pro Asp
465 470 475 480
Pro Trp Lys Gly Ser Ala Thr Lys Gly Ala Gly Ile Thr Arg Lys Lys
485 490 495
Thr Phe Lys Glu Val Ala Asn Ala Val Lys Ile Ser Ala Ser Leu Met
500 505 510
Gly Thr Leu Met Ala Lys Arg Val Lys Ala Thr Ile Leu Tyr Ala Ser
515 520 525
Glu Thr Gly Arg Ala Gln Ser Tyr Ala Gln Gln Leu Gly Arg Leu Phe
530 535 540
Arg Lys Ala Phe Asp Pro Arg Val Leu Cys Met Asp Glu Tyr Asp Val
545 550 555 560
Val Ser Leu Glu His Glu Ala Leu Val Leu Val Val Thr Ser Thr Phe
565 570 575
Gly Asn Gly Asp Pro Pro Glu Asn Gly Glu Ser Phe Ala Ala Ala Leu
580 585 590
Met Glu Met Ser Gly Pro Tyr Asn Ser Ser Pro Arg Pro Glu Gln His
595 600 605
Lys Ser Tyr Lys Ile Arg Phe Asn Ser Val Ser Cys Ser Asp Pro Leu
610 615 620
Val Ser Ser Trp Arg Arg Lys Arg Lys Glu Ser Ser Asn Thr Asp Ser
625 630 635 640
Ala Gly Ala Leu Gly Thr Leu Arg Phe Cys Val Phe Gly Leu Gly Ser
645 650 655
Arg Ala Tyr Pro His Phe Cys Ala Phe Ala Arg Ala Val Asp Thr Arg
660 665 670
Leu Glu Glu Leu Gly Gly Glu Arg Leu Leu Gln Leu Gly Gln Gly Asp
675 680 685
Glu Leu Cys Gly Gln Glu Glu Ala Phe Arg Gly Trp Ala Lys Ala Ala
690 695 700
Phe Gln Ala Ser Cys Glu Thr Phe Cys Val Gly Glu Glu Ala Lys Ala
705 710 715 720
Ala Ala Gln Asp Ile Phe Ser Pro Lys Arg Ser Trp Lys Arg Gln Arg
725 730 735
Tyr Arg Leu Ser Thr Gln Ala Glu Gly Leu Gln Leu Leu Pro Gly Leu
740 745 750
Ile His Val His Arg Arg Lys Met Phe Gln Ala Thr Val Leu Ser Val
755 760 765
Glu Asn Leu Gln Ser Ser Lys Ser Thr Arg Ala Thr Ile Leu Val Arg
770 775 780
Leu Asp Thr Ala Gly Gln Glu Gly Leu Gln Tyr Gln Pro Gly Asp His
785 790 795 800
Ile Gly Ile Cys Pro Pro Asn Arg Pro Gly Leu Val Glu Ala Leu Leu
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Ser Arg Val Glu Asp Pro Pro Pro Pro Thr Glu Ser Val Ala Val Glu
820 825 830
Gln Leu Glu Lys Gly Ser Pro Gly Gly Pro Pro Pro Ser Trp Val Arg
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Asp Pro Arg Leu Pro Pro Cys Thr Leu Arg Gln Ala Leu Thr Phe Phe
850 855 860
Leu Asp Ile Thr Ser Pro Pro Ser Pro Arg Leu Leu Arg Leu Leu Ser
865 870 875 880
Thr Leu Ala Glu Glu Pro Ser Glu Gln Gln Glu Leu Glu Thr Leu Ser
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Gln Asp Pro Arg Arg Tyr Glu Glu Trp Lys Trp Phe Arg Cys Pro Thr
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Leu Leu Glu Val Leu Glu Gln Phe Pro Ser Val Ala Leu Pro Ala Pro

915 920 925
Leu Leu Leu Thr Gln Leu Pro Leu Leu Gln Pro Arg Tyr Tyr Ser Val
930 935 940
Ser Ser Ala Pro Asn Ala His Pro Gly Glu Val His Leu Thr Val Ala
945 950 955 960
Val Leu Ala Tyr Arg Thr Gln Asp Gly Leu Gly Pro Leu His Tyr Gly
965 970 975
Val Cys Ser Thr Trp Leu Ser Gln Leu Lys Thr Gly Asp Pro Val Pro
980 985 990
Cys Phe Ile Arg Gly Ala Pro Ser Phe Arg Leu Pro Pro Asp Pro Tyr
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Gly Arg Val Leu Thr Ala Phe Ser Arg Glu Pro Asp Ser Pro Lys Thr
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1140 1145 1150
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Ala Pro Glu His Ser Pro Pro Ser Ser Pro Leu Thr Gln Pro Pro Glu
50 55 60
Gly Pro Lys Phe Pro Arg Val Lys Asn Trp Glu Val Gly Ser Ile Thr
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Tyr Asp Thr Leu Ser Ala Gln Ala Gln Gln Asp Gly Pro Cys Thr Pro
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Arg Arg Cys Leu Gly Ser Leu Val Phe Pro Arg Lys Leu Gln Gly Arg

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Gly Thr Tyr Gln Leu Arg Glu Ser Glu Leu Val Phe Gly Ala Lys Gln
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Thr Tyr Ile Cys Asn His Ile Lys Tyr Ala Thr Asn Arg Gly Asn Leu
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Glu Trp Phe Ala Ala Leu Gly Leu Arg Trp Tyr Ala Leu Pro Ala Val
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Ser Asn Met Leu Leu Glu Ile Gly Gly Leu Glu Phe Pro Ala Ala Pro
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Phe Ser Gly Trp Tyr Met Ser Thr Glu Ile Gly Thr Arg Asn Leu Cys
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Glu Ile Asn Val Ala Val Leu His Ser Tyr Gln Leu Ala Lys Val Thr
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Ile Val Asp His His Ala Ala Thr Ala Ser Phe Met Lys His Leu Glu
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Val Met Ala Lys Arg Val Lys Ala Thr Ile Leu Tyr Gly Ser Glu Thr
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Gly Arg Ala Gln Ser Tyr Ala Gln Gln Leu Gly Arg Leu Phe Arg Lys
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Gly Asp Pro Pro Glu Asn Gly Glu Ser Phe Ala Ala Ala Leu Met Glu
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Met Ser Gly Pro Tyr Asn Ser Ser Pro Arg Pro Glu Gln His Lys Ser
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Ser Trp Arg Arg Lys Arg Lys Glu Ser Ser Asn Thr Asp Ser Ala Gly
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645 650 655
Tyr Pro His Phe Cys Ala Phe Ala Arg Ala Val Asp Thr Arg Leu Glu
660 665 670
Glu Leu Gly Gly Glu Arg Leu Leu Gln Leu Gly Gln Gly Asp Glu Leu
675 680 685
Cys Gly Gln Glu Glu Ala Phe Arg Gly Trp Ala Gln Ala Ala Phe Gln
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Ala Ala Cys Glu Thr Phe Cys Val Gly Glu Asp Ala Lys Ala Ala Ala
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Arg Asp Ile Phe Ser Pro Lys Arg Ser Trp Lys Arg Gln Arg Tyr Arg
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740 745 750
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755 760 765
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Thr Gly Gly Gln Glu Gly Leu Gln Tyr Gln Pro Gly Asp His Ile Gly
785 790 795 800
Val Cys Pro Pro Asn Arg Pro Gly Leu Val Glu Ala Leu Leu Ser Arg
805 810 815
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Glu Lys Gly Ser Pro Gly Gly Pro Pro Pro Gly Trp Val Arg Asp Pro
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Arg Leu Pro Pro Cys Thr Leu Arg Gln Ala Leu Thr Phe Phe Leu Asp
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Ile Thr Ser Pro Pro Ser Pro Gln Leu Leu Arg Leu Leu Ser Thr Leu
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Ala Glu Glu Pro Arg Glu Gln Gln Glu Leu Glu Ala Leu Ser Gln Asp
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Pro Arg Arg Tyr Glu Glu Trp Lys Trp Phe Arg Cys Pro Thr Leu Leu
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Ala Pro Ser Thr His Pro Gly Glu Ile His Leu Thr Val Ala Val Leu
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Ala Tyr Arg Thr Gln Asp Gly Leu Gly Pro Leu His Tyr Gly Val Cys
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Ser Thr Trp Leu Ser Gln Leu Lys Pro Gly Asp Pro Val Pro Cys Phe
980 985 990
Ile Arg Gly Ala Pro Ser Phe Arg Leu Pro Pro Asp Pro Ser Leu Pro
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Gln Asp Ile Leu Arg Thr Glu Leu Ala Ala Glu Val His Arg Val Leu
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Cys Leu Glu Arg Gly His Met Phe Val Cys Gly Asp Val Thr Met Ala

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