SEQUENCE LISTING

<110> Epshtein, Oleg Iliich

<120> New Invention Title

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<170> BiSSAP 1.0

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

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20 25

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

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Asn Val Ser Ser Ser Thr Lys Lys Pro Ala Pro Cys Phe
20 25

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Ser Pro Ala Pro Glu Pro Ser Arg Ala Pro Ala Pro Ala Thr Pro His
        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
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
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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
805 810 815
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
835 840 845
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
885 890 895
Gln Asp Pro Arg Arg Tyr Glu Glu Trp Lys Trp Phe Arg Cys Pro Thr
900 905 910
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
995 1000 1005
Val Pro Cys Ile Leu Val Gly Pro Gly Thr Gly Ile Ala Pro Phe Arg
1010 1015 1020
Gly Phe Trp Gln Glu Arg Leu His Asp Ile Glu Ser Lys Gly Leu Gln
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Pro Ala Pro Met Thr Leu Val Phe Gly Cys Arg Cys Ser Gln Leu Asp
1045 1050 1055
His Leu Tyr Arg Asp Glu Val Gln Asp Ala Gln Glu Arg Gly Val Phe
1060 1065 1070
Gly Arg Val Leu Thr Ala Phe Ser Arg Glu Pro Asp Ser Pro Lys Thr
1075 1080 1085
Tyr Val Gln Asp Ile Leu Arg Thr Glu Leu Ala Ala Glu Val His Arg

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Val Leu Cys Leu Glu Arg Gly His Met Phe Val Cys Gly Asp Val Thr
1105                1110                1115                1120
Met Ala Thr Ser Val Leu Gln Thr Val Gln Arg Ile Leu Ala Thr Glu
                1125                1130                1135
Gly Asp Met Glu Leu Asp Glu Ala Gly Asp Val Ile Gly Val Leu Arg
            1140                1145                1150
Asp Gln Gln Arg Tyr His Glu Asp Ile Phe Gly Leu Thr Leu Arg Thr
        1155                1160                1165
Gln Glu Val Thr Ser Arg Ile Arg Thr Gln Ser Phe Ser Leu Gln Glu
    1170                1175                1180
Arg His Leu Arg Gly Ala Val Pro Trp Ala Phe Asp Pro Pro Gly Pro
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Asp Thr Pro Gly Pro
                1205
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Thr Pro Ala Pro Glu Pro Ser Arg Ala Pro Ala Ser Leu Leu Pro Pro
        35                  40                  45
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
65                  70                  75                  80
Tyr Asp Thr Leu Ser Ala Gln Ala Gln Gln Asp Gly Pro Cys Thr Pro
                85                  90                  95
Arg Arg Cys Leu Gly Ser Leu Val Phe Pro Arg Lys Leu Gln Gly Arg
            100                 105                 110
Pro Ser Pro Gly Pro Pro Ala Pro Glu Gln Leu Leu Ser Gln Ala Arg
        115                 120                 125
Asp Phe Ile Asn Gln Tyr Tyr Ser Ser Ile Lys Arg Ser Gly Ser Gln
    130                 135                 140
Ala His Glu Gln Arg Leu Gln Glu Val Glu Ala Glu Val Ala Ala Thr
145                 150                 155                 160
Gly Thr Tyr Gln Leu Arg Glu Ser Glu Leu Val Phe Gly Ala Lys Gln
                165                 170                 175
Ala Trp Arg Asn Ala Pro Arg Cys Val Gly Arg Ile Gln Trp Gly Lys
            180                 185                 190
Leu Gln Val Phe Asp Ala Arg Asp Cys Arg Ser Ala Gln Glu Met Phe
        195                 200                 205
Thr Tyr Ile Cys Asn His Ile Lys Tyr Ala Thr Asn Arg Gly Asn Leu
    210                 215                 220
Arg Ser Ala Ile Thr Val Phe Pro Gln Arg Cys Pro Gly Arg Gly Asp
225                 230                 235                 240
Phe Arg Ile Trp Asn Ser Gln Leu Val Arg Tyr Ala Gly Tyr Arg Gln
                245                 250                 255
Gln Asp Gly Ser Val Arg Gly Asp Pro Ala Asn Val Glu Ile Thr Glu
            260                 265                 270
Leu Cys Ile Gln His Gly Trp Thr Pro Gly Asn Gly Arg Phe Asp Val
        275                 280                 285
Leu Pro Leu Leu Leu Gln Ala Pro Asp Glu Pro Pro Glu Leu Phe Leu
    290                 295                 300
Leu Pro Pro Glu Leu Val Leu Glu Val Pro Leu Glu His Pro Thr Leu
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305 310 315 320
Glu Trp Phe Ala Ala Leu Gly Leu Arg Trp Tyr Ala Leu Pro Ala Val
325 330 335
Ser Asn Met Leu Leu Glu Ile Gly Gly Leu Glu Phe Pro Ala Ala Pro
340 345 350
Phe Ser Gly Trp Tyr Met Ser Thr Glu Ile Gly Thr Arg Asn Leu Cys
355 360 365
Asp Pro His Arg Tyr Asn Ile Leu Glu Asp Val Ala Val Cys Met Asp
370 375 380
Leu Asp Thr Arg Thr Thr Ser Ser Leu Trp Lys Asp Lys Ala Ala Val
385 390 395 400
Glu Ile Asn Val Ala Val Leu His Ser Tyr Gln Leu Ala Lys Val Thr
405 410 415
Ile Val Asp His His Ala Ala Thr Ala Ser Phe Met Lys His Leu Glu
420 425 430
Asn Glu Gln Lys Ala Arg Gly Gly Cys Pro Ala Asp Trp Ala Trp Ile
435 440 445
Val Pro Pro Ile Ser Gly Ser Leu Thr Pro Val Phe His Gln Glu Met
450 455 460
Val Asn Tyr Phe Leu Ser Pro Ala Phe Arg Tyr Gln Pro Asp Pro Trp
465 470 475 480
Lys Gly Ser Ala Ala Lys Gly Thr Gly Ile Thr Arg Lys Lys Thr Phe
485 490 495
Lys Glu Val Ala Asn Ala Val Lys Ile Ser Ala Ser Leu Met Gly Thr
500 505 510
Val Met Ala Lys Arg Val Lys Ala Thr Ile Leu Tyr Gly Ser Glu Thr
515 520 525
Gly Arg Ala Gln Ser Tyr Ala Gln Gln Leu Gly Arg Leu Phe Arg Lys
530 535 540
Ala Phe Asp Pro Arg Val Leu Cys Met Asp Glu Tyr Asp Val Val Ser
545 550 555 560
Leu Glu His Glu Thr Leu Val Leu Val Val Thr Ser Thr Phe Gly Asn
565 570 575
Gly Asp Pro Pro Glu Asn Gly Glu Ser Phe Ala Ala Ala Leu Met Glu
580 585 590
Met Ser Gly Pro Tyr Asn Ser Ser Pro Arg Pro Glu Gln His Lys Ser
595 600 605
Tyr Lys Ile Arg Phe Asn Ser Ile Ser Cys Ser Asp Pro Leu Val Ser
610 615 620
Ser Trp Arg Arg Lys Arg Lys Glu Ser Ser Asn Thr Asp Ser Ala Gly
625 630 635 640
Ala Leu Gly Thr Leu Arg Phe Cys Val Phe Gly Leu Gly Ser Arg Ala
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
690 695 700
Ala Ala Cys Glu Thr Phe Cys Val Gly Glu Asp Ala Lys Ala Ala Ala
705 710 715 720
Arg Asp Ile Phe Ser Pro Lys Arg Ser Trp Lys Arg Gln Arg Tyr Arg
725 730 735
Leu Ser Ala Gln Ala Glu Gly Leu Gln Leu Leu Pro Gly Leu Ile His
740 745 750
Val His Arg Arg Lys Met Phe Gln Ala Thr Ile Arg Ser Val Glu Asn
755 760 765
Leu Gln Ser Ser Lys Ser Thr Arg Ala Thr Ile Leu Val Arg Leu Asp
770 775 780
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
Val Glu Asp Pro Pro Ala Pro Thr Glu Pro Val Ala Val Glu Gln Leu
820 825 830
Glu Lys Gly Ser Pro Gly Gly Pro Pro Pro Gly Trp Val Arg Asp Pro
835 840 845

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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
                885                 890                 895
Pro Arg Arg Tyr Glu Glu Trp Lys Trp Phe Arg Cys Pro Thr Leu Leu
            900                 905                 910
Glu Val Leu Glu Gln Phe Pro Ser Val Ala Leu Pro Ala Pro Leu Leu
        915                 920                 925
Leu Thr Gln Leu Pro Leu Leu Gln Pro Arg Tyr Tyr Ser Val Ser Ser
    930                 935                 940
Ala Pro Ser Thr His Pro Gly Glu Ile His Leu Thr Val Ala Val Leu
945                 950                 955                 960
Ala Tyr Arg Thr Gln Asp Gly Leu Gly Pro Leu His Tyr Gly Val Cys
                965                 970                 975
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
        995                 1000                1005
Cys Ile Leu Val Gly Pro Gly Thr Gly Ile Ala Pro Phe Arg Gly Phe
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Trp Gln Glu Arg Leu His Asp Ile Glu Ser Lys Gly Leu Gln Pro Thr
1025                1030                1035                1040
Pro Met Thr Leu Val Phe Gly Cys Arg Cys Ser Gln Leu Asp His Leu
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Tyr Arg Asp Glu Val Gln Asn Ala Gln Gln Arg Gly Val Phe Gly Arg
            1060                1065                1070
Val Leu Thr Ala Phe Ser Arg Glu Pro Asp Asn Pro Lys Thr Tyr Val
        1075                1080                1085
Gln Asp Ile Leu Arg Thr Glu Leu Ala Ala Glu Val His Arg Val Leu
    1090                1095                1100
Cys Leu Glu Arg Gly His Met Phe Val Cys Gly Asp Val Thr Met Ala
1105                1110                1115                1120
Thr Asn Val Leu Gln Thr Val Gln Arg Ile Leu Ala Thr Glu Gly Asp
                1125                1130                1135
Met Glu Leu Asp Glu Ala Gly Asp Val Ile Gly Val Leu Arg Asp Gln
            1140                1145                1150
Gln Arg Tyr His Glu Asp Ile Phe Gly Leu Thr Leu Arg Thr Gln Glu
        1155                1160                1165
Val Thr Ser Arg Ile Arg Thr Gln Ser Phe Ser Leu Gln Glu Arg Gln
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Asn Ser Pro
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Asp Thr Pro Gly Pro
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1 5 10

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1 5 10

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/organism="Bos taurus"

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1 5 10 15
Thr Pro Gly Pro
20