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Lys Ala Phe Thr Glu Cys Cys Val Val Ala Ser Gln Leu Arg Ala Asn
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Ile Ser His Lys Asp Met Gln Leu Gly Arg
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His Cys Ile Arg Ala Phe Asn Glu Cys Cys Thr Ile Ala Asp Lys Ile
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Phe Tyr Glu Thr Cys Glu Glu Arg Val Ala Arg Val Thr Ile Gly Pro
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Leu Cys Ile Arg Ala Phe Asn Glu Cys Cys Thr Ile Ala Asn Lys Ile
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Arg Lys Glu Ser Pro His Lys Pro Val Gln Leu Gly Arg
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Thr Cys Glu Gln Arg Ala Ala Arg Ile Ser Leu Gly Pro Arg Cys Ile
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Lys Ala Phe Thr Glu Cys Cys Val Val Ala Ser Gln Leu Arg Ala Asn
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Ile Ser His Lys Asp Met Gln Leu Gly Arg Leu His Met Lys Thr Leu
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Leu Pro Asp Ser Leu Thr Thr Trp Glu Ile Gln Gly Ile Gly Ile Ser
        115                 120                 125

Asn Thr Gly Ile Cys Val Ala Asp Thr Val Lys Ala Lys Val Phe Lys
    130                 135                 140

Asp Val Phe Leu Glu Met Asn Ile Pro Tyr Ser Val Val Arg Gly Glu
145                 150                 155                 160

Gln Ile Gln Leu Lys Gly Thr Val Tyr Asn Tyr Arg Thr Ser Gly Met
                165                 170                 175

Gln Phe Cys Val Lys Met Ser Ala Val Glu Gly Ile Cys Thr Ser Glu
            180                 185                 190

Ser Pro Val Ile Asp His Gln Gly Thr Lys Ser Ser Lys Cys Val Arg
        195                 200                 205

Gln Lys Val Glu Gly Ser Ser Ser His Leu Val Thr Phe Thr Val Leu
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Pro Leu Glu Ile Gly Leu His Asn Ile Asn Phe Ser Leu Glu Thr Trp
225                 230                 235                 240

Phe Gly Lys Glu Ile Leu Val Lys Thr Leu Arg Val Val Pro Glu Gly
                245                 250                 255

Val Lys Arg Glu Ser Tyr Ser Gly Val Thr Leu Asp Pro Arg Gly Ile
            260                 265                 270

Tyr Gly Thr Ile Ser Arg Arg Lys Glu Phe Pro Tyr Arg Ile Pro Leu
        275                 280                 285

Asp Leu Val Pro Lys Thr Glu Ile Lys Arg Ile Leu Ser Val Lys Gly
    290                 295                 300

Leu Leu Val Gly Glu Ile Leu Ser Ala Val Leu Ser Gln Glu Gly Ile
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305 310 315 320

Asn Ile Leu Thr His Leu Pro Lys Gly Ser Ala Glu Ala Glu Leu Met
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Ser Val Val Pro Val Phe Tyr Val Phe His Tyr Leu Glu Thr Gly Asn
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His Trp Asn Ile Phe His Ser Asp Pro Leu Ile Glu Lys Gln Lys Leu
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Lys Lys Lys Leu Lys Glu Gly Met Leu Ser Ile Met Ser Tyr Arg Asn
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Ala Asp Tyr Ser Tyr Ser Val Trp Lys Gly Gly Ser Ala Ser Thr Trp
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Leu Thr Ala Phe Ala Leu Arg Val Leu Gly Gln Val Asn Lys Tyr Val
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Glu Gln Asn Gln Asn Ser Ile Cys Asn Ser Leu Leu Trp Leu Val Glu
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Asn Tyr Gln Leu Asp Asn Gly Ser Phe Lys Glu Asn Ser Gln Tyr Gln
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Arg Ser Ile Val Ser Ala Leu Lys Arg Glu Ala Leu Val Lys Gly Asn
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Ser Val Pro Asn Thr Gly Thr Ala Arg Met Val Glu Thr Thr Ala Tyr
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Ala Leu Leu Thr Ser Leu Asn Leu Lys Asp Ile Asn Tyr Val Asn Pro
            580                 585                 590

Val Ile Lys Trp Leu Ser Glu Glu Gln Arg Tyr Gly Gly Gly Phe Tyr
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Ser Thr Gln Asp Thr Ile Asn Ala Ile Glu Gly Leu Thr Glu Tyr Ser
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Leu Leu Val Lys Gln Leu Arg Leu Ser Met Asp Ile Asp Val Ser Tyr
625                 630                 635                 640

Lys His Lys Gly Ala Leu His Asn Tyr Lys Met Thr Asp Lys Asn Phe
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Leu Gly Arg Pro Val Glu Val Leu Leu Asn Asp Asp Leu Ile Val Ser
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Thr Gly Phe Gly Ser Gly Leu Ala Thr Val His Val Thr Thr Val Val
        675                 680                 685

His Lys Thr Ser Thr Ser Glu Glu Val Cys Ser Phe Tyr Leu Lys Ile
    690                 695                 700

Asp Thr Gln Asp Ile Glu Ala Ser His Tyr Arg Gly Tyr Gly Asn Ser
705                 710                 715                 720

Asp Tyr Lys Arg Ile Val Ala Cys Ala Ser Tyr Lys Pro Ser Arg Glu
                725                 730                 735

Glu Ser Ser Ser Gly Ser Ser His Ala Val Met Asp Ile Ser Leu Pro
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Thr Gly Ile Ser Ala Asn Glu Glu Asp Leu Lys Ala Leu Val Glu Gly
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Val Asp Gln Leu Phe Thr Asp Tyr Gln Ile Lys Asp Gly His Val Ile
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770 775 780

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820 825 830

Ser Thr Ser Asn Ile Lys Ile Gln Lys Val Cys Glu Gly Ala Ala Cys
835 840 845

Lys Cys Val Glu Ala Asp Cys Gly Gln Met Gln Glu Glu Leu Asp Leu
850 855 860

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Ala Tyr Ala Tyr Lys Val Ser Ile Thr Ser Ile Thr Val Glu Asn Val
885 890 895

Phe Val Lys Tyr Lys Ala Thr Leu Leu Asp Ile Tyr Lys Thr Gly Glu
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Ala Val Ala Glu Lys Asp Ser Glu Ile Thr Phe Ile Lys Lys Val Thr
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Cys Thr Asn Ala Glu Leu Val Lys Gly Arg Gln Tyr Leu Ile Met Gly
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Lys Glu Ala Leu Gln Ile Lys Tyr Asn Phe Ser Phe Arg Tyr Ile Tyr
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Pro Leu Asp Ser Leu Thr Trp Ile Glu Tyr Trp Pro Arg Asp Thr Thr
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Val Pro Lys Lys Cys Cys Tyr Asp Gly Ala Arg Val Asn Phe Tyr Glu
20 25 30

Thr Cys Glu Glu Arg Val Ala Arg Val Thr Ile Gly Pro Leu Cys Ile
35 40 45

Arg Ala Phe Asn Glu Cys Cys Thr Ile Ala Asn Lys Ile Arg Lys Glu
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Ser Pro His Lys Pro Val Gln Leu Gly Arg
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Val Val Lys Lys Cys Cys Tyr Asp Gly Ala Cys Val Asn Asn Asp Glu

20 25 30

Thr Cys Glu Gln Arg Ala Ala Arg Ile Ser Leu Gly Pro Arg Cys Ile
35 40 45

Lys Ala Phe Thr Glu Cys Cys Val Val Ala Ser Gln Leu Arg Ala Asn
50 55 60

Ile Ser His Lys Asp Met Gln Leu Gly
65 70

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Lys His Ser Val Pro Lys Lys Cys Cys Tyr Asp Gly Ala Arg Val Asn
20 25 30

Phe Tyr Glu Thr Cys Glu Glu Arg Val Ala Arg Val Thr Ile Gly Pro
35 40 45

Leu Cys Ile Arg Ala Phe Asn Glu Cys Cys Thr Ile Ala Asn Lys Ile
50 55 60

Arg Lys Glu Ser Pro His Lys Pro Val Gln Leu Gly
65 70 75