SEQUENCE LISTING

<110> BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM; Exphenom, LLC

<120> COMPOSITIONS AND METHODS FOR CANCER THERAPY

<130> 133892-020013/SG

<150> PCT/US2018/063082
<151> 2018-11-29

<150> US 62/591,874
<151> 2017-11-29

<160> 74

<170> PatentIn version 3.5

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<211> 108
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Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
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Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Asn Ala Ser Asp Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

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

100 105

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Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
20 25 30

Ser Gln Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
35 40 45

Trp Val Ser Ser Ile Pro Pro Gly Gly Pro Asn Thr Lys Tyr Ala Asp
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
85 90 95

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

Leu Val Thr Val Ser Ser
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ccagggaaag cccctaagct cctgatctat aatgcatccg atttgcaaag tggggtccca 180

tcaaggttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagtctgcaa 240

cctgaagatt ttgcaactta ctactgtcaa cagtcgtcgc ggacgcctac gacgttcggc 300

caagggacca aggtggaaat caaa 324

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caggctccag ggaaggggct ggagtgggtc tcatctattc ctccgggtgg tcctaataca 180

aagtacgcag actccgtgaa gggccggttc accatctcca gagacaattc caagaacacg 240

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Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

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Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
        35                  40                  45

Ile Tyr Ala Ala Ser Pro Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
    50                  55                  60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65                  70                  75                  80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Ala Arg Thr Pro
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Asn Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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ccagggaaag cccctaagct cctgatctat gcggcatccc cgttgcaaag tggggtccca 180

tcaaggttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagtctgcaa 240

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1               5                   10                  15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
            20                  25                  30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
        35                  40                  45

Ile Tyr Arg Ala Ser Arg Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
    50                  55                  60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65                  70                  75                  80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Pro Thr Ser Leu Pro
                85                  90                  95

Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105
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Met Ala Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro
1               5                   10                  15

Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
            20                  25                  30

Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
        35                  40                  45

Trp Val Ser Gln Ile Gly Thr Met Gly Arg Pro Thr Thr Tyr Ala Asp
    50                  55                  60
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Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Ala Lys Ser Gly Lys Lys Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

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ccagggaaag cccctaagct cctgatctat agggcatccc gtttgcaaag tggggtccca 180

tcaaggttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagtctgcaa 240

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caagggacca aggtggaaat caaa 324

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caggctccag ggaaggggct ggagtgggtc tcatagattg ggacgatggg tcggccgaca 180

acttacgcag actccgtgaa gggccggttc accatctcca gagacaattc caagaacacg 240

ctgtatctgc aaatgaacag cctgagagcc gaggacacgg ccgtatatta ctgtgcgaaa 300

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<210> 11
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<212> PRT
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<220>
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Thr Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ala Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asp Ser Tyr Pro
85 90 95

Thr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

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<213> Unknown

<220>
<223> Synthetic

<400> 12

Met Ala Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro
1 5 10 15

Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
20 25 30

Ser Tyr Ala Met Ser Trp Val Arg Leu Ala Pro Gly Lys Gly Leu Glu
35 40 45

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

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Ala Lys Asp Ala Thr Ser Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

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tcaaggttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagtctgcaa 240

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caagggacca aggtggaaat caaa 324

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ctggctccag ggaaggggct ggagtgggtc tcatctattt ctactactgg taatagtaca 180

tattacgcag actccgtgaa gggccggttc accatctcca gagacaattc caagaacacg 240

ctgtatctgc aaatgaacag cctgagagcc gaggacacgg ccgtatatta ctgtgcgaaa 300

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<211> 108
<212> PRT
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Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Arg Ala Ser Arg Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln

65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ile Lys Thr Arg Pro
85 90 95

Thr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 16
<211> 118
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

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Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
20 25 30

Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
35 40 45

Trp Val Ser Val Ile Gln Arg Gln Gly Thr Gly Thr Glu Tyr Ala Asp
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Ala Lys Asn Ser Arg Thr Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
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<210> 17
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<212> DNA
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ccagggaaag cccctaagct cctgatctat cgtgcatccc gtttgcaaag tggggtccca 180

tcaaggttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagtctgcaa 240

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caagggacca aggtggaaat caaa 324

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caggctccag ggaaggggct ggagtgggtc tcagttattc agcgttaggg tactggtaca 180

gagtacgcag actccgtgaa gggccggttc accatctcca gagacaattc caagaacacg 240

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<210> 19
<211> 108
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<400> 19

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Thr Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
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Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
            20                  25                  30


Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
        35                  40                  45


Ile Tyr Asp Ala Ser Leu Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
    50                  55                  60


Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65                  70                  75                  80


Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Thr Ser Ala Gly Pro
                85                  90                  95


Gly Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105


<210> 20
<211> 118
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

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Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
            20                  25                  30


Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
        35                  40                  45


Trp Val Ser Ser Ile Pro Ser Arg Gly Gln Ala Thr Lys Tyr Ala Asp
    50                  55                  60
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Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Ala Lys Ser Arg His Thr Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

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tcaaggttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagtctgcaa 240

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caagggacca aggtggaaat caaa 324

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<213> UNKNOWN

<220>
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caggctccag ggaaggggct ggagtgggtc tcaagtattc ctagtcgtgg ttaggcaaca 180

aagtacgcag actccgtgaa gggccggttc accatctcca gagacaattc caagaacacg 240

ctgtatctgc aaatgaacag cctgagagcc gaggacacgg ccgtatatta ctgcgcgaaa 300

tcgcgtcata cttttgacta ctggggccag ggaaccctgg tcaccgtctc gagc 354

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<212> PRT
<213> UNKNOWN

<220>
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Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Asn Asp Tyr Tyr Pro
85 90 95

Thr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

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<212> PRT
<213> UNKNOWN

<220>

<223> SYNTHETIC

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Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
20 25 30

Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
35 40 45

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

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Ala Lys Asn Thr Ala Thr Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

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<212> DNA
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<220>
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tcaaggttca gtggcagtgg atctgggaca gatttcactc tcaccatcag cagtctgcaa 240

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caagggacca aggtggaaat caaa 324

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<211> 354
<212> DNA
<213> UNKNOWN

<220>
<223> SYNTHETIC

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caggctccag ggaaggggct ggagtgggtc tcatctattg ctactactgg taatactaca 180

tattacgcag actccgtgaa gggccggttc accatctcca gagacaattc caagaacacg 240

ctgtatctgc aaatgaacag cctgagagcc gaggacacgg ccgtatatta ctgtgcgaaa 300

aatactgcta cttttgacta ctggggccag ggaaccctgg tcaccgtctc gagc 354

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<211> 118
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<400> 27

Met Ala Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Leu
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Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
20 25 30

Ser Gln Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
35 40 45

Trp Val Ser Ser Ile Pro Pro Gly Gly Pro Asn Thr Lys Tyr Ala Asp
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
85 90 95

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

Leu Val Thr Val Ser Ser
115

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<212> DNA
<213> UNKNOWN

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caggctccag ggaaggggct ggagtgggtc tcatctattc ctccgggtgg tcctaataca 180

aagtacgcag actccgtgaa gggccggttc accatctcca gagacaattc caagaacacg 240

ctgtatctgc aaatgaacag cctgagagcc gaggacacgg ccgtatatta ctgtgcgaaa 300

agttatcctt cttttgacta ctggggccag ggaaccctgg tcaccgtctc gagc 354

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<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<400> 29

Met Ala Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro
1 5 10 15

Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser

20 25 30

Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
35 40 45

Trp Val Ser Ser Ile Tyr Thr Ser Gly Ala Ala Thr Thr Tyr Ala Asp
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
85 90 95

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

Leu Val Thr Val Ser Ser
115

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<212> DNA
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<220>
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caggctccag ggaaggggct ggagtgggtc tcatctattt atacttctgg tgctgctaca 180

acttacgcag actccgtgaa gggccggttc accatctcca gagacaattc caagaacacg 240

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<210> 31
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<212> PRT
<213> Homo sapiens

<400> 31

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
        35   40   45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
    50   55   60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65   70   75   80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
                85   90   95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
            100   105

<210> 32
<211> 330
<212> PRT
<213> Homo sapiens

<400> 32

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1   5   10   15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
            20   25   30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35   40   45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50   55   60

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Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225                 230                 235                 240

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

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270
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Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 33
<211> 11
<212> PRT
<213> Unknown

<220>
<223> Synthetic

<400> 33

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 34
<211> 7
<212> PRT
<213> Unknown

<220>
<223> Synthetic

<400> 34

Asn Ala Ser Asp Leu Gln Ser
1 5

<210> 35
<211> 7
<212> PRT
<213> Unknown

<220>
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<400> 35

Ala Ala Ser Pro Leu Gln Ser
1 5

<210> 36
<211> 7
<212> PRT
<213> Unknown

<220>
<223> Synthetic

<400> 36

Arg Ala Ser Arg Leu Gln Ser
1 5

<210> 37
<211> 7
<212> PRT
<213> Unknown

<220>
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<400> 37

Ala Ala Ser Ala Leu Gln Ser
1 5

<210> 38
<211> 7
<212> PRT
<213> Unknown

<220>
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<400> 38

Asp Ala Ser Leu Leu Gln Ser
1 5

<210> 39
<211> 7
<212> PRT
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<220>

<223> Synthetic

<400> 39

Ala Ala Ser Thr Leu Gln Ser
1   5

<210> 40
<211> 9
<212> PRT
<213> Unknown

<220>
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<400> 40

Gln Gln Ser Ser Arg Thr Pro Thr Thr
1   5

<210> 41
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic

<400> 41

Gln Gln Val Ala Arg Thr Pro Asn Thr
1   5

<210> 42
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic

<400> 42

Gln Gln Pro Thr Ser Leu Pro Leu Thr
1   5

<210> 43
<211> 9
<212> PRT

<213> unknown

<220>
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<400> 43

Gln Gln Ala Asp Ser Tyr Pro Thr Thr
1   5

<210> 44
<211> 9
<212> PRT
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<220>
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<400> 44

Gln Gln Ile Lys Thr Arg Pro Thr Thr
1   5

<210> 45
<211> 9
<212> PRT
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<220>
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<400> 45

Gln Gln Thr Ser Ala Gly Pro Gly Thr
1   5

<210> 46
<211> 9
<212> PRT
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<220>
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<400> 46

Gln Gln Asn Asp Tyr Tyr Pro Thr Thr
1   5

<210> 47
<211> 5
<212> PRT
<213> Unknown

<220>
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<400> 47

Ser Gln Ala Met Ser
1   5

<210> 48
<211> 5
<212> PRT
<213> unknown

<220>
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<400> 48

Ser Tyr Ala Met Ser
1   5

<210> 49
<211> 17
<212> PRT
<213> unknown

<220>
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<400> 49

Gln Ile Gly Thr Met Gly Arg Pro Thr Thr Tyr Ala Asp Ser Val Lys
1   5   10   15

Gly

<210> 50
<211> 17
<212> PRT
<213> unknown

<220>
<223> synthetic

<400> 50

Ser Ile Ser Thr Thr Gly Asn Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1   5   10   15

Gly

<210> 51
<211> 17
<212> PRT
<213> unknown

<220>
<223> synthetic

<400> 51

Val Ile Gln Arg Gln Gly Thr Gly Thr Glu Tyr Ala Asp Ser Val Lys
1   5   10   15

Gly

<210> 52
<211> 17
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<400> 52

Ser Ile Pro Ser Arg Gly Gln Ala Thr Lys Tyr Ala Asp Ser Val Lys
1   5   10   15

Gly

<210> 53
<211> 17
<212> PRT
<213> UNKNOWN

<220>

<223> SYNTHETIC

<400> 53

Ser Ile Ala Thr Thr Gly Asn Thr Thr Tyr Tyr Ala Asp Ser Val Lys
1   5   10   15

Gly

<210> 54
<211> 17
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<400> 54

Ser Ile Pro Pro Gly Gly Pro Asn Thr Lys Tyr Ala Asp Ser Val Lys
1   5   10   15

Gly

<210> 55
<211> 17
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<400> 55

Ser Ile Tyr Thr Ser Gly Ala Ala Thr Thr Tyr Ala Asp Ser Val Lys
1   5   10   15

Gly

<210> 56
<211> 7
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<400> 56

Ser Tyr Pro Ser Phe Asp Tyr
1   5

<210> 57
<211> 7
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<400> 57

Ser Gly Lys Lys Phe Asp Tyr
1   5

<210> 58
<211> 7
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<400> 58

Asp Ala Thr Ser Phe Asp Tyr
1   5

<210> 59
<211> 7
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<400> 59

Asn Ser Arg Thr Phe Asp Tyr
1   5

<210> 60
<211> 7

<212> PRT
<213> UNKNOWN

<220>
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<400> 60

Ser Arg His Thr Phe Asp Tyr
1   5

<210> 61
<211> 7
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<400> 61

Asn Thr Ala Thr Phe Asp Tyr
1   5

<210> 62
<211> 7
<212> PRT
<213> UNKNOWN

<220>
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<220>
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<222> (1)..(1)
<223> X=N, A, R, D

<220>
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<223> X=D, P, R, A, L, T

<400> 62

Xaa Ala Ser Xaa Leu Gln Ser
1   5

<210> 63
<211> 9

<212> PRT
<213> UNKNOWN

<220>
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<220>
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<222> (3)..(3)
<223> X=S, V, P, A, I, T, N

<220>
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<223> X=S, A, T, D, K

<220>
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<222> (5)..(5)
<223> X=R, S, T, A, Y

<220>
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<222> (6)..(6)
<223> X=T, L, Y, R, G

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X=T, N, L, G

<400> 63

Gln Gln Xaa Xaa Xaa Xaa Pro Xaa Thr
1 5

<210> 64
<211> 5
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> X=Q, Y

<400> 64

Ser Xaa Ala Met Ser
1 5

<210> 65
<211> 17
<212> PRT
<213> UNKNOWN

<220>
<223> SYNTHETIC

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> X=S, Q, V

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> X=P, G, S, Q, A, Y

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X=P, T, R, S

<220>
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<222> (5)..(5)
<223> X=G, M, T, Q, R, S

<220>
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<222> (7)..(7)
<223> X=P, R, N, T, Q, A

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X=N, P, S, G, A, T

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> X=K, T, Y, E

<400> 65

Xaa Ile Xaa Xaa Xaa Gly Xaa Xaa Thr Xaa Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 66
<211> 7
<212> PRT
<213> UNKNOWN

<220>
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<220>
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<220>
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<223> X=Y, G, A, S, R, T

<220>
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<222> (3)..(3)
<223> X=P, K, T, R, H, A

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<223> X=S, K, T

<400> 66

Xaa Xaa Xaa Xaa Phe Asp Tyr
1 5

<210> 67
<211> 232
<212> PRT
<213> Homo sapiens

<400> 67

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
1 5 10 15

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro

```
            20                  25                  30

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
        35                  40                  45

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
    50                  55                  60

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
65                  70                  75                  80

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
                85                  90                  95

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
            100                 105                 110

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
        115                 120                 125

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
    130                 135                 140

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
145                 150                 155                 160

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
                165                 170                 175

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
            180                 185                 190

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
        195                 200                 205

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
    210                 215                 220

Ser Leu Ser Leu Ser Pro Gly Lys
225                 230
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<210> 68
<211> 326
<212> PRT
<213> Homo sapiens

<400> 68

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1   5   10   15

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
            20   25   30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35   40   45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50   55   60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr
65   70   75   80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85   90   95

Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
            100   105   110

Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
        115   120   125

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
    130   135   140

Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly
145   150   155   160

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn
                165   170   175

```
Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
            180                 185                 190


Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro
        195                 200                 205


Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu
    210                 215                 220


Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
225                 230                 235                 240


Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
                245                 250                 255


Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
            260                 265                 270


Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
        275                 280                 285


Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
    290                 295                 300


Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
305                 310                 315                 320


Ser Leu Ser Pro Gly Lys
                325


<210> 69
<211> 228
<212> PRT
<213> Homo sapiens

<400> 69

Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val
1               5                   10                  15


Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
            20                  25                  30
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```
Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
        35                  40                  45

His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu
    50                  55                  60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr
65                  70                  75                  80

Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn
                85                  90                  95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro
            100                 105                 110

Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln
        115                 120                 125

Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
    130                 135                 140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
145                 150                 155                 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
                165                 170                 175

Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
            180                 185                 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
        195                 200                 205

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
    210                 215                 220

Ser Pro Gly Lys
225
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<210> 70
<211> 228
<212> PRT
<213> Homo sapiens

<400> 70

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Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val
1               5                  10                  15


Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
            20                  25                  30


Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
        35                  40                  45


His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu
    50                  55                  60


Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr
65                  70                  75                  80


Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn
                85                  90                  95


Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser
            100                 105                 110


Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln
        115                 120                 125


Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
    130                 135                 140


Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
145                 150                 155                 160


Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
                165                 170                 175


Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
```

180 185 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
195 200 205

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
210 215 220

Ser Pro Gly Lys
225

<210> 71
<211> 20
<212> DNA
<213> unknown

<220>
<223> synthetic

<400> 71
agtcccccag gaagaggcaa 20

<210> 72
<211> 25
<212> DNA
<213> unknown

<220>
<223> synthetic

<400> 72
tcacctaggt tctcactagc cccgt 25

<210> 73
<211> 30
<212> DNA
<213> unknown

<220>
<223> synthetic

<400> 73
cctggacttg agttacggag atgcagtgca 30

<210> 74
<211> 440

<212> PRT
<213> Homo sapiens

<400> 74

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Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
1               5                  10                  15


His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
            20                  25                  30


Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
        35                  40                  45


Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Ile Leu Gly Ser
    50                  55                  60


Lys Glu Gln Thr Val Thr Ile Arg Phe Gln Lys Leu His Leu Ala Cys
65                  70                  75                  80


Gly Ser Glu Arg Leu Thr Leu Arg Ser Pro Leu Gln Pro Leu Ile Ser
                85                  90                  95


Leu Cys Glu Ala Pro Pro Ser Pro Leu Gln Leu Pro Gly Gly Asn Val
            100                 105                 110


Thr Ile Thr Tyr Ser Tyr Ala Gly Ala Arg Ala Pro Met Gly Gln Gly
        115                 120                 125


Phe Leu Leu Ser Tyr Ser Gln Asp Trp Leu Met Cys Leu Gln Glu Glu
    130                 135                 140


Phe Gln Cys Leu Asn His Arg Cys Val Ser Ala Val Gln Arg Cys Asp
145                 150                 155                 160


Gly Val Asp Ala Cys Gly Asp Gly Ser Asp Glu Ala Gly Cys Ser Ser
                165                 170                 175


Asp Pro Phe Pro Gly Leu Thr Pro Arg Pro Val Pro Ser Leu Pro Cys
            180                 185                 190
```

```
Asn Val Thr Leu Glu Asp Phe Tyr Gly Val Phe Ser Ser Pro Gly Tyr
        195                 200                 205

Thr His Leu Ala Ser Val Ser His Pro Gln Ser Cys His Trp Leu Leu
    210                 215                 220

Asp Pro His Asp Gly Arg Arg Leu Ala Val Arg Phe Thr Ala Leu Asp
225                 230                 235                 240

Leu Gly Phe Gly Asp Ala Val His Val Tyr Asp Gly Pro Gly Pro Pro
                245                 250                 255

Glu Ser Ser Arg Leu Leu Arg Ser Leu Thr His Phe Ser Asn Gly Lys
            260                 265                 270

Ala Val Thr Val Glu Thr Leu Ser Gly Gln Ala Val Val Ser Tyr His
        275                 280                 285

Thr Val Ala Trp Ser Asn Gly Arg Gly Phe Asn Ala Thr Tyr His Val
    290                 295                 300

Arg Gly Tyr Cys Leu Pro Trp Asp Arg Pro Cys Gly Leu Gly Ser Gly
305                 310                 315                 320

Leu Gly Ala Gly Glu Gly Leu Gly Glu Arg Cys Tyr Ser Glu Ala Gln
                325                 330                 335

Arg Cys Asp Gly Ser Trp Asp Cys Ala Asp Gly Thr Asp Glu Glu Asp
            340                 345                 350

Cys Pro Gly Cys Pro Pro Gly His Phe Pro Cys Gly Ala Ala Gly Thr
        355                 360                 365

Ser Gly Ala Thr Ala Cys Tyr Leu Pro Ala Asp Arg Cys Asn Tyr Gln
    370                 375                 380

Thr Phe Cys Ala Asp Gly Ala Asp Glu Arg Arg Cys Arg His Cys Gln
385                 390                 395                 400

Pro Gly Asn Phe Arg Cys Arg Asp Glu Lys Cys Val Tyr Glu Thr Trp
```

```
                405                 410                 415

Val Cys Asp Gly Gln Pro Asp Cys Ala Asp Gly Ser Asp Glu Trp Asp
            420                 425                 430

Cys Ser Tyr Val Leu Pro Arg Lys
        435                 440
```