SEQUENCE LISTING

<110> Tong-Ming FU
Dai WANG
Muneeswara Babu MEDI

<120> CONDITIONAL REPLICATING CYTOMEGALOVIRUS
AS A VACCINE FOR CMV

<130> 23109-US-PCT

<150> 61/532,667
<151> 2011-09-09

<160> 14

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 598
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemically Synthesized

<400> 1

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            20                  25                  30
Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys
        35                  40                  45
Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val
    50                  55                  60
Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp
65                  70                  75                  80
Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala
                85                  90                  95
Thr Leu Val Phe Asp Val Glu Leu Leu Lys Pro Glu Glu Ser Ser Ala
            100                 105                 110
Lys Arg Lys Met Asp Pro Asp Asn Pro Asp Glu Gly Pro Ser Ser Lys
        115                 120                 125
Val Pro Arg Pro Glu Thr Pro Val Thr Lys Ala Thr Thr Phe Leu Gln
    130                 135                 140
Thr Met Leu Arg Lys Glu Val Asn Ser Gln Leu Ser Leu Gly Asp Pro
145                 150                 155                 160
Leu Phe Pro Glu Leu Ala Glu Glu Ser Leu Lys Thr Phe Glu Gln Val
                165                 170                 175
Thr Glu Asp Cys Asn Glu Asn Pro Glu Lys Asp Val Leu Ala Glu Leu
            180                 185                 190
Val Lys Gln Ile Lys Val Arg Val Asp Met Val Arg His Arg Ile Lys
        195                 200                 205
Glu His Met Leu Lys Lys Tyr Thr Gln Thr Glu Glu Lys Phe Thr Gly
    210                 215                 220
Ala Phe Asn Met Met Gly Gly Cys Leu Gln Asn Ala Leu Asp Ile Leu
225                 230                 235                 240
Asp Lys Val His Glu Pro Phe Glu Glu Met Lys Cys Ile Gly Leu Thr
                245                 250                 255
Met Gln Ser Met Tyr Glu Asn Tyr Ile Val Pro Glu Asp Lys Arg Glu
            260                 265                 270
Met Trp Met Ala Cys Ile Lys Glu Leu His Asp Val Ser Lys Gly Ala
        275                 280                 285
Ala Asn Lys Leu Gly Gly Ala Leu Gln Ala Lys Ala Arg Ala Lys Lys
    290                 295                 300
Asp Glu Leu Arg Arg Lys Met Met Tyr Met Cys Tyr Arg Asn Ile Glu
305                 310                 315                 320
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Phe Phe Thr Lys Asn Ser Ala Phe Pro Lys Thr Thr Asn Gly Cys Ser
                325                 330                 335
Gln Ala Met Ala Ala Leu Gln Asn Leu Pro Gln Cys Ser Pro Asp Glu
            340                 345                 350
Ile Met Ala Tyr Ala Gln Lys Ile Phe Lys Ile Leu Asp Glu Glu Arg
        355                 360                 365
Asp Lys Val Leu Thr His Ile Asp His Ile Phe Met Asp Ile Leu Thr
    370                 375                 380
Thr Cys Val Glu Thr Met Cys Asn Glu Tyr Lys Val Thr Ser Asp Ala
385                 390                 395                 400
Cys Met Met Thr Met Tyr Gly Gly Ile Ser Leu Leu Ser Glu Phe Cys
                405                 410                 415
Arg Val Leu Cys Cys Tyr Val Leu Glu Glu Thr Ser Val Met Leu Ala
            420                 425                 430
Lys Arg Pro Leu Ile Thr Lys Pro Glu Val Ile Ser Val Met Lys Arg
        435                 440                 445
Arg Ile Glu Glu Ile Cys Met Lys Val Phe Ala Gln Tyr Ile Leu Gly
    450                 455                 460
Ala Asp Pro Leu Arg Val Cys Ser Pro Ser Val Asp Asp Leu Arg Ala
465                 470                 475                 480
Ile Ala Glu Glu Ser Asp Glu Glu Glu Ala Ile Val Ala Tyr Thr Leu
                485                 490                 495
Ala Thr Ala Gly Val Ser Ser Ser Asp Ser Leu Val Ser Pro Pro Glu
            500                 505                 510
Ser Pro Val Pro Ala Thr Ile Pro Leu Ser Ser Val Ile Val Ala Glu
        515                 520                 525
Asn Ser Asp Gln Glu Glu Ser Glu Gln Ser Asp Glu Glu Glu Glu Glu
    530                 535                 540
Gly Ala Gln Glu Glu Arg Glu Asp Thr Val Ser Val Lys Ser Glu Pro
545                 550                 555                 560
Val Ser Glu Ile Glu Glu Val Ala Pro Glu Glu Glu Glu Asp Gly Ala
                565                 570                 575
Glu Glu Pro Thr Ala Ser Gly Gly Lys Ser Thr His Pro Met Val Thr
            580                 585                 590
Arg Ser Lys Ala Asp Gln
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<210> 2
<211> 2081
<212> DNA
<213> Artificial Sequence

<220>
<223> Chemically Synthesized

<400> 2

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cgggacagaa acaagccctt taagtttatg ctaggcaagc aggaggtgat ccgaggctgg 180
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aaccccgaga aagatgtcct ggcagaactc ggtaagtctg ttgacatgta tgtgatgtat 720
actaacctgc atgggacgtg gatttacttg tgtatgtcag atagagtaaa gattaactct 780
tgcatgtgag cggggcatcg agatagcgat aaatgagtca ggaggacgga tacttatatg 840
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gaatcaagga gcacatgctg aaaaaatata cccagacgga agagaaattc actggcgcct 960
ttaatatgat gggaggatgt ttgcagaatg ccttagatat cttagataag gttcatgagc 1020
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aacttaggag aaagatgatg tatatgtgct acaggaatat agagttcttt accaagaact 1260
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acgggggcat ctctctctta agtgagttct gtcgggtgct gtgctgctat gtcttagagg 1560
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ctcaggagga gcgggaggac actgtgtctg tcaagtctga gccagtgtct gagatagagg 1980
aagttgcccc agaggaagag gaggatggtg ctgaggaacc caccgcctct ggaggcaaga 2040
gcacccaccc tatggtgact agaagcaagg ctgaccagta a 2081

<210> 3
<211> 264
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemically Synthesized

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Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu
20 25 30
Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys
35 40 45
Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val
50 55 60
Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp
65 70 75 80
Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala
85 90 95
Thr Leu Val Phe Asp Val Glu Leu Leu Lys Pro Glu Ser Trp Ala Lys
100 105 110
Gln Arg Val Pro Phe Leu Asp Asp Asp Asp Gly Glu Glu Glu Asn Asp
115 120 125
Val Gln Asp Asp Val Asp Ser Pro Val Pro Thr Arg Pro Leu Val Ile
130 135 140
Asp Glu Asp Ala Glu Pro Ala Ala Gly Thr Ser Gly Gly Leu Glu Gly
145 150 155 160
Gly Gly Gly Asp Asp Glu Asp Gly Glu Asp Gly His Ala Leu Pro Asp
165 170 175
Leu Asp Asp Asp Leu Leu Leu Gln Phe Glu Pro Met Leu Pro Arg Val
180 185 190
Tyr Asp Leu Leu Leu Pro Ser Leu Asp Ala Arg Leu Asn Phe Val Asn
195 200 205
Ala Gly Gln Lys Tyr Ala Ala Phe Leu Lys Tyr Val His Gly Asp Cys
210 215 220
Ala Thr Cys Ser His Gly Glu Ile Leu Arg Glu Lys Thr Gln Leu Leu
225 230 235 240
Thr Ala Ile Val Ser Lys Leu Met Asp Ile Asn Gly Ile Leu Glu Gly
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Lys Asp Glu Ser Ala Pro Gly Lys
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<210> 4
<211> 795
<212> DNA
<213> Artificial Sequence

<220>
<223> Chemically Synthesized

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cgggacagaa acaagccctt taagtttatg ctaggcaagc aggaggtgat ccgaggctgg 180
gaagaagggg ttgcccagat gagtgtgggt cagagagcca aactgactat atctccagat 240
tatgcctatg gtgccactgg gcacccaggc atcatcccac cacatgccac tctcgtcttc 300
gatgtggagc ttctaaaacc ggaatcctgg gctaagcagc gggtgccgtt tctggacgat 360
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ccgctggtga tcgacgagga cgcggagccc gcggctggta cgagcggtgg gctcgagggg 480
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ctgctattac agttcgagcc gatgctgccg cgcgtctacg atctgttgct gccctctctg 600
gacgcgcgct taaatttcgt gaacgcgggt cagaagtacg ccgccttcct caagtacgtg 660
cacggcgact gcgcgacctg cagtcacgga gagatcctcc gtgagaagac gcaactatta 720
acggcgatcg tcagcaagct catggacatt aacggaatcc tggagggaaa agacgagtcg 780
gcgccgggta aataa 795

<210> 5
<211> 775
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemically Synthesized

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            20   25   30
Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys
        35   40   45
Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val
    50   55   60
Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp
65   70   75   80
Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala
                85   90   95
Thr Leu Val Phe Asp Val Glu Leu Leu Lys Pro Glu Asn Pro Ser Thr
            100   105   110
His Val Ser Ser Asn Gly Pro Thr Thr Pro Pro His Gly Pro His Thr
        115   120   125
Thr Phe Leu Pro Pro Thr Ser Pro Ala Pro Ser Thr Ser Ser Val Ala
    130   135   140
Ala Ala Thr Leu Cys Ser Pro Gln Arg Gln Ala Val Ser Arg Tyr Ser
145   150   155   160
Gly Trp Ser Thr Glu Tyr Thr Gln Trp His Ser Asp Leu Thr Thr Glu
                165   170   175
Leu Leu Trp His Ala His Pro Arg Gln Val Pro Met Asp Glu Ala Leu
            180   185   190
Ala Ala Ala Ala Ala Ala Ser Tyr Gln Val Asn Pro Gln His Pro Ala
        195   200   205
Asn Arg Tyr Arg His Tyr Glu Phe Gln Thr Leu Ser Leu Gly Thr Ser
    210   215   220
Glu Val Asp Glu Leu Leu Asn Cys Cys Ala Glu Glu Thr Thr Cys Gly
225   230   235   240
Gly Thr Gln Ser Thr Val Leu Thr Asn Ala Thr Asn Thr Thr Ser Cys
                245   250   255
Gly Gly Ala Val Ala Gly Ser Ser Asn Val Gly Pro Ala Gly Ala Ser
            260   265   270
Ala Ala Cys Asp Leu Asp Ala Glu Leu Ala Gly Leu Glu Thr Ser Ala
        275   280   285
Ala Asp Phe Glu Gln Leu Arg Arg Leu Cys Ala Pro Leu Ala Ile Asp
    290   295   300
Thr Arg Cys Asn Leu Cys Ala Ile Ile Ser Ile Cys Leu Lys Gln Asp
305   310   315   320
Cys Asp Gln Ser Trp Leu Leu Glu Tyr Ser Leu Leu Cys Phe Lys Cys
                325   330   335
Ser Tyr Ala Pro Arg Ala Ala Leu Ser Thr Leu Ile Ile Met Ser Glu

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            340                 345                 350
Phe Thr His Leu Leu Gln Gln His Phe Ser Asp Leu Arg Ile Asp Asp
        355                 360                 365
Leu Phe Arg His His Val Leu Thr Val Phe Asp Phe His Leu His Phe
    370                 375                 380
Phe Ile Asn Arg Cys Phe Glu Lys Gln Val Gly Asp Ala Val Asp Asn
385                 390                 395                 400
Glu Asn Val Thr Leu Asn His Leu Ala Val Val Arg Ala Met Val Met
                405                 410                 415
Gly Glu Asp Thr Val Pro Tyr Asn Lys Pro Arg Arg His Pro Gln Gln
            420                 425                 430
Lys Gln Lys Asn Asn Pro Tyr His Val Glu Val Pro Gln Glu Leu Ile
        435                 440                 445
Asp Asn Phe Leu Glu His Ser Ser Pro Ser Arg Asp Arg Phe Val Gln
    450                 455                 460
Leu Leu Phe Tyr Met Trp Ala Gly Thr Gly Val Met Ser Thr Thr Pro
465                 470                 475                 480
Leu Thr Glu Leu Thr His Thr Lys Phe Ala Arg Leu Asp Ala Leu Ser
                485                 490                 495
Thr Ala Ser Glu Arg Glu Asp Ala Arg Met Met Ile Glu Glu Glu Glu
            500                 505                 510
Asp Glu Glu Gly Gly Glu Lys Gly Gly Asp Asp Pro Gly Arg His Asn
        515                 520                 525
Gly Gly Gly Thr Ser Gly Gly Phe Ser Glu Ser Thr Leu Lys Lys Asn
    530                 535                 540
Val Gly Pro Ile Tyr Leu Cys Pro Val Pro Ala Phe Phe Thr Lys Asn
545                 550                 555                 560
Gln Thr Ser Thr Val Cys Leu Leu Cys Glu Leu Met Ala Cys Ser Tyr
                565                 570                 575
Tyr Asp Asn Val Val Leu Arg Glu Leu Tyr Arg Arg Val Val Ser Tyr
            580                 585                 590
Cys Gln Asn Asn Val Lys Met Val Asp Arg Ile Gln Leu Val Leu Ala
        595                 600                 605
Asp Leu Leu Arg Glu Cys Thr Ser Pro Leu Gly Ala Ala His Glu Asp
    610                 615                 620
Val Ala Arg Cys Gly Leu Glu Ala Pro Thr Ser Pro Gly Gly Asp Ser
625                 630                 635                 640
Asp Tyr His Gly Leu Ser Gly Val Asp Gly Ala Leu Ala Arg Pro Asp
                645                 650                 655
Pro Val Phe Cys His Val Leu Arg Gln Ala Gly Val Thr Gly Ile Tyr
            660                 665                 670
Lys His Phe Phe Cys Asp Pro Gln Cys Ala Gly Asn Ile Arg Val Thr
        675                 680                 685
Asn Glu Ala Val Leu Phe Gly Arg Leu His Pro His His Val Gln Glu
    690                 695                 700
Val Lys Leu Ala Ile Cys His Asp Asn Tyr Tyr Ile Ser Arg Leu Pro
705                 710                 715                 720
Arg Arg Val Trp Leu Cys Ile Thr Leu Phe Lys Ala Phe Gln Ile Thr
                725                 730                 735
Lys Arg Thr Tyr Lys Gly Lys Val His Leu Ala Asp Phe Met Arg Asp
            740                 745                 750
Phe Thr Gln Leu Leu Glu Ser Cys Asp Ile Lys Leu Val Asp Pro Thr
        755                 760                 765
Tyr Val Ile Asp Lys Tyr Val
    770                 775
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<210> 6
<211> 2328
<212> DNA
<213> Artificial Sequence

<220>
<223> Chemically Synthesized

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cagacctgtg tggtgcacta caccgggatg cttgaagatg gaaagaaagt cgattcctcc 120

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gaagaagggg ttgcccagat gagtgtgggt cagagagcca aactgactat atctccagat 240
tatgcctatg gtgccactgg gcacccaggc atcatcccac cacatgccac tctcgtcttc 300
gatgtggagc ttctaaaacc ggaaaatccg agtacccacg tgagcagtaa cggcccaacg 360
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ctaaaaaaaa acgtgggtcc catttaccta tgtcccgtac ccgcttttt taccaagaac 1680
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aaaggcaaag tgcacctggc ggactttatg cgcgatttca cgcagctgtt ggagagttgc 2280
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<210> 7
<211> 402
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemically Synthesized

<400> 7

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Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu
            20                  25                  30
Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys
        35                  40                  45
Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val
    50                  55                  60
Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp
65                  70                  75                  80
Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala
                85                  90                  95
Thr Leu Val Phe Asp Val Glu Leu Leu Lys Pro Glu Met Ala Arg Asp
            100                 105                 110
Glu Glu Asn Pro Ala Val Pro Arg Val Arg Thr Gly Lys Phe Ser Phe
        115                 120                 125
Thr Cys Ala Asn His Leu Ile Leu Gln Ile Ser Glu Lys Met Ser Arg
    130                 135                 140
Gly Gln Pro Leu Ser Ser Leu Arg Leu Glu Glu Leu Lys Ile Val Arg
145                 150                 155                 160
Leu Ile Cys Val Leu Leu Phe His Arg Gly Leu Glu Thr Leu Leu Leu
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                165                 170                 175
Arg Glu Thr Met Asn Asn Leu Gly Val Ser Asp His Ala Val Leu Ser
            180                 185                 190
Arg Lys Thr Pro Gln Pro Tyr Trp Pro His Leu Tyr Arg Glu Leu Arg
        195                 200                 205
Gln Ala Phe Pro Gly Leu Asp Phe Glu Ala Ala Val Phe Asp Glu Thr
    210                 215                 220
Arg Ala Ala Arg Leu Ser Gln Arg Leu Cys His Pro Arg Leu Ser Gly
225                 230                 235                 240
Gly Leu Leu Thr Arg Phe Val Gln Arg His Thr Gly Leu Pro Val Val
                245                 250                 255
Phe Pro Glu Asp Leu Ala Arg Asn Gly Asn Ile Leu Phe Ser Leu Gly
            260                 265                 270
Thr Leu Tyr Gly His Arg Leu Phe Arg Leu Ala Ala Phe Phe Thr Arg
        275                 280                 285
His Trp Gly Ala Glu Ala Tyr Glu Pro Leu Ile Arg Ile Ile Cys Gln
    290                 295                 300
Lys Met Trp Tyr Phe Tyr Leu Ile Gly Thr Gly Lys Met Arg Ile Thr
305                 310                 315                 320
Pro Asp Ala Phe Glu Ile Gln Arg Ser Arg His Glu Thr Gly Ile Phe
                325                 330                 335
Thr Phe Ile Met Glu Asp Tyr Arg Thr Phe Ala Gly Thr Leu Ser Arg
            340                 345                 350
His Pro His Arg Pro His Pro Gln Gln Gln Gln His His His Pro Gly
        355                 360                 365
Pro Pro His Pro Pro Leu Ser His Pro Ala Ser Ser Cys Leu Ser Pro
    370                 375                 380
Glu Ala Val Leu Ala Ala Arg Ala Leu His Met Pro Thr Leu Ala Asn
385                 390                 395                 400
Asp Val
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<210> 8
<211> 1209
<212> DNA
<213> Artificial Sequence

<220>
<223> Chemically Synthesized

<400> 8

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cgggacagaa acaagccctt taagtttatg ctaggcaagc aggaggtgat ccgaggctgg 180
gaagaagggg ttgcccagat gagtgtgggt cagagagcca aactgactat atctccagat 240
tatgcctatg gtgccactgg gcacccaggc atcatcccac cacatgccac tctcgtcttc 300
gatgtggagc ttctaaaacc ggaaatggcc cgcgacgaag agaaccccgc cgtcccgcgg 360
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aagatgtcgc gcggacagcc gctgagctcg ctgcgtttgg aagaactcaa gatcgtacgc 480
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gaagattaca gaacgttcgc cggcacgctg tcccggcacc cgcaccgtcc gcacccacaa 1080
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<211> 693
<212> PRT
<213> Artificial Sequence

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<223> Chemically Synthesized

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Ser Gly Lys Cys Arg Arg Gln Arg Arg Ala Leu Ser Ala Pro Pro Leu
35 40 45
Thr Phe Leu Ala Thr Thr Thr Thr Thr Thr Met Met Gly Val Ala Ser
50 55 60
Thr Asp Asp Asp Ser Leu Leu Leu Lys Thr Pro Asp Glu Leu Asp Lys
65 70 75 80
Tyr Ser Gly Ser Pro Gln Thr Ile Leu Thr Leu Thr Asp Lys His Asp
85 90 95
Ile Arg Gln Pro Arg Val His Arg Gly Thr Tyr His Leu Ile Gln Leu
100 105 110
His Leu Asp Leu Arg Pro Glu Glu Leu Arg Asp Pro Phe Gln Ile Leu
115 120 125
Leu Ser Thr Pro Leu Gln Leu Gly Glu Ala Asn Asp Glu Ser Gln Thr
130 135 140
Ala Pro Ala Thr Leu Gln Glu Glu Glu Thr Ala Ala Ser His Glu Pro
145 150 155 160
Glu Lys Lys Lys Glu Lys Gln Glu Lys Lys Glu Glu Asp Glu Asp Asp
165 170 175
Arg Asn Asp Asp Arg Glu Arg Gly Ile Leu Cys Val Val Ser Asn Glu
180 185 190
Asp Ser Asp Val Arg Pro Ala Phe Ser Leu Phe Pro Ala Arg Pro Gly
195 200 205
Cys His Ile Leu Arg Ser Val Ile Asp Gln Gln Leu Thr Arg Met Ala
210 215 220
Ile Val Arg Leu Ser Leu Asn Leu Phe Ala Leu Arg Ile Ile Thr Pro
225 230 235 240
Leu Leu Lys Arg Leu Pro Leu Arg Arg Lys Ala Ala His His Thr Ala
245 250 255
Leu His Asp Cys Leu Ala Leu His Leu Pro Glu Leu Thr Phe Glu Pro
260 265 270
Thr Leu Asp Ile Asn Asn Val Thr Glu Asn Ala Ala Ser Val Ala Asp
275 280 285
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290 295 300
Val Arg His Ala Leu Cys Trp His Arg Val Glu Gly Gly Ile Ser Gly
305 310 315 320
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325 330 335
Ala Lys Thr Leu Gly Pro Ser Val Phe Gly Arg Leu Glu Leu Asp Pro
340 345 350
Asn Glu Ser Pro Pro Asp Leu Thr Leu Ser Ser Leu Thr Leu Tyr Gln
355 360 365
Asp Gly Ile Leu Arg Phe Asn Val Thr Cys Asp Arg Thr Glu Ala Pro
370 375 380
Ala Asp Pro Val Ala Phe Arg Leu Arg Leu Arg Arg Glu Thr Val Arg
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405 410 415
Ser Gly Ala Ala Asp Glu Gly Leu Glu Val Arg Val Pro Tyr Glu Leu
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435 440 445
Pro Tyr Leu Gly Val Phe Val Pro His Asn Arg Gln Gly Leu Lys Met
450 455 460
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Val Ser Asp Glu Asn Gly Ala Thr Phe Pro Arg Asp Ala Leu Leu Gly
485 490 495
Arg Leu Tyr Phe Ile Ser Ser Lys His Thr Leu Asn Arg Gly Cys Leu

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545                 550                 555                 560
Pro Gln Asp Cys Lys Leu Thr Glu Asn Thr Thr Glu Lys Thr Ser Pro
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Val Thr Leu Ala Met Val Cys Gly Asp Leu Gly Val Gln Val Glu Thr
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    610                 615                 620
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625                 630                 635                 640
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<212> PRT
<213> Artificial Sequence

<220>
<223> Chemically Synthesized

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Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
    50                  55                  60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65                  70                  75                  80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
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Leu Val Phe Asp Val Glu Leu Leu Lys Lys Glu
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<210> 11
<211> 2082
<212> DNA
<213> Artificial Sequence

<220>
<223> Chemically Synthesized

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<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Chemically Synthesized

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        35   40   45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
    50   55   60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65   70   75   80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
                85   90   95
Leu Val Phe Asp Val Glu Leu Leu Lys Pro Glu
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<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Chemically Synthesized

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