SEQUENCE LISTING

<110> Liu, Cheng
Liu, Hong
Xu, Yiyang
Xiang, Jingyi
Long, Li

<120> CONSTRUCTS TARGETING AFP PEPTIDE/MHC COMPLEXES AND USES THEREOF

<130> 750042000140

<140> Not Yet Assigned
<141> Concurrently Herewith

<150> US 62/142,958
<151> 2015-04-03

<150> US 62/244,653
<151> 2015-10-21

<150> US 62/304,915
<151> 2016-03-07

<160> 141

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 609
<212> PRT
<213> Homo sapiens

<400> 1

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Glu Ser Arg Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu
            20                  25                  30
Asp Ser Tyr Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr
        35                  40                  45
Ile Phe Phe Ala Gln Phe Val Gln Glu Ala Thr Tyr Lys Glu Val Ser
    50                  55                  60
Lys Met Val Lys Asp Ala Leu Thr Ala Ile Glu Lys Pro Thr Gly Asp
65                  70                  75                  80
Glu Gln Ser Ser Gly Cys Leu Glu Asn Gln Leu Pro Ala Phe Leu Glu
                85                  90                  95
Glu Leu Cys His Glu Lys Glu Ile Leu Glu Lys Tyr Gly His Ser Asp
            100                 105                 110
Cys Cys Ser Gln Ser Glu Glu Gly Arg His Asn Cys Phe Leu Ala His
        115                 120                 125
Lys Lys Pro Thr Pro Ala Ser Ile Pro Leu Phe Gln Val Pro Glu Pro
    130                 135                 140
Val Thr Ser Cys Glu Ala Tyr Glu Glu Asp Arg Glu Thr Phe Met Asn
145                 150                 155                 160
Lys Phe Ile Tyr Glu Ile Ala Arg Arg His Pro Phe Leu Tyr Ala Pro
                165                 170                 175
Thr Ile Leu Leu Trp Ala Ala Arg Tyr Asp Lys Ile Ile Pro Ser Cys
            180                 185                 190
Cys Lys Ala Glu Asn Ala Val Glu Cys Phe Gln Thr Lys Ala Ala Thr
        195                 200                 205
Val Thr Lys Glu Leu Arg Glu Ser Ser Leu Leu Asn Gln His Ala Cys
    210                 215                 220
Ala Val Met Lys Asn Phe Gly Thr Arg Thr Phe Gln Ala Ile Thr Val
225                 230                 235                 240
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Thr Lys Leu Ser Gln Lys Phe Thr Lys Val Asn Phe Thr Glu Ile Gln
                245                 250                 255
Lys Leu Val Leu Asp Val Ala His Val His Glu His Cys Cys Arg Gly
            260                 265                 270
Asp Val Leu Asp Cys Leu Gln Asp Gly Glu Lys Ile Met Ser Tyr Ile
        275                 280                 285
Cys Ser Gln Gln Asp Thr Leu Ser Asn Lys Ile Thr Glu Cys Cys Lys
    290                 295                 300
Leu Thr Thr Leu Glu Arg Gly Gln Cys Ile Ile His Ala Glu Asn Asp
305                 310                 315                 320
Glu Lys Pro Glu Gly Leu Ser Pro Asn Leu Asn Arg Phe Leu Gly Asp
                325                 330                 335
Arg Asp Phe Asn Gln Phe Ser Ser Gly Glu Lys Asn Ile Phe Leu Ala
            340                 345                 350
Ser Phe Val His Glu Tyr Ser Arg Arg His Pro Gln Leu Ala Val Ser
        355                 360                 365
Val Ile Leu Arg Val Ala Lys Gly Tyr Gln Glu Leu Leu Glu Lys Cys
    370                 375                 380
Phe Gln Thr Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu
385                 390                 395                 400
Leu Gln Lys Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys
                405                 410                 415
Gly Leu Phe Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Ala Phe Leu
            420                 425                 430
Val Ala Tyr Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met
        435                 440                 445
Ala Ile Thr Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu
    450                 455                 460
Ser Glu Asp Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile
465                 470                 475                 480
Ile Gly His Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly
                485                 490                 495
Val Gly Gln Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe
            500                 505                 510
Ser Ser Leu Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp
        515                 520                 525
Asp Lys Phe Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala
    530                 535                 540
Leu Gln Thr Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys
545                 550                 555                 560
Pro Gln Ile Thr Glu Glu Gln Leu Glu Ala Val Ile Ala Asp Phe Ser
                565                 570                 575
Gly Leu Leu Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe
            580                 585                 590
Ala Glu Glu Gly Gln Lys Leu Ile Ser Lys Thr Arg Ala Ala Leu Gly
        595                 600                 605
Val
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<210> 2
<211> 1830
<212> DNA
<213> Homo sapiens

<400> 2
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ataagtttag ctgacctggc taccatattt tttgcccagt ttgttcaaga agccacttac 180
aaggaagtaa gcaaaatggt gaaagatgca ttgactgcaa ttgagaaacc cactggagat 240
gaacagtctt cagggtgttt agaaaaccag ctacctgcct ttctggaaga actttgccat 300
gagaaagaaa ttttggagaa gtacggacat tcagactgct gcagccaaag tgaagaggga 360
agacataact gttttcttgc acacaaaaag cccactccag catcgatccc acttttccaa 420
gttccagaac ctgtcacaag ctgtgaagca tatgaagaag acagggagac attcatgaac 480
aaattcattt atgagatagc aagaaggcat cccttcctgt atgcacctac aattcttctt 540
tgggctgctc gctatgacaa aataattcca tcttgctgca aagctgaaaa tgcagttgaa 600
tgcttccaaa caaaggcagc aacagttaca aaagaattaa gagaaagcag cttgttaaat 660
caacatgcat gtgcagtaat gaaaaatttt gggacccgaa ctttccaagc cataactgtt 720

actaaactga gtcagaagtt taccaaagtt aattttactg aaatccagaa actagtcctg 780
gatgtggccc atgtacatga gcactgttgc agaggagatg tgctggattg tctgcaggat 840
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caattttctt caggggaaaa aaatatcttc ttggcaagtt ttgttcatga atattcaaga 1080
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cagctgacct cgtcggagct gatggccatc accagaaaaa tggcagccac agcagccact 1380
tgttgccaac tcagtgagga caaactattg gcctgtggcg agggagcggc tgacattatt 1440
atcggacact tatgtatcag acatgaaatg actccagtaa accctggtgt tggccagtgc 1500
tgcacttctt catatgccaa caggaggcca tgcttcagca gcttggtggt ggatgaaaca 1560
tatgtccctc ctgcattctc tgatgacaag ttcattttcc ataaggatct gtgccaagct 1620
cagggtgtag cgctgcaaac aatgaagcaa gagtttctca ttaaccttgt gaagcaaaag 1680
ccacaaataa cagaggaaca acttgaggct gtcattgcag atttctcagg cctgttggag 1740
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<210> 3
<211> 9
<212> PRT
<213> Homo sapiens

<400> 3
Pro Leu Phe Gln Val Pro Glu Pro Val
 1   5

<210> 4
<211> 9
<212> PRT
<213> Homo sapiens

<400> 4
Phe Met Asn Lys Phe Ile Tyr Glu Ile
 1   5

<210> 5
<211> 10
<212> PRT
<213> Homo sapiens

<400> 5
Gly Leu Ser Pro Asn Leu Asn Arg Phe Leu
 1   5   10

<210> 6
<211> 9
<212> PRT
<213> Homo sapiens

<400> 6
Gly Val Ala Leu Gln Thr Met Lys Gln
 1   5

<210> 7
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 7
Ala Met Asn Lys Phe Ile Tyr Glu Ile
 1   5

<210> 8
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 8
Phe Met Ala Lys Phe Ile Tyr Glu Ile
 1   5

<210> 9
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 9
Phe Met Asn Ala Phe Ile Tyr Glu Ile
 1   5

<210> 10
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 10
Phe Met Asn Lys Ala Ile Tyr Glu Ile
 1   5

<210> 11
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 11
Phe Met Asn Lys Phe Ala Tyr Glu Ile
 1   5

<210> 12
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 12
Phe Met Asn Lys Phe Ile Ala Glu Ile

1 5

<210> 13
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 13
Phe Met Asn Lys Phe Ile Tyr Ala Ile
1 5

<210> 14
<211> 605
<212> PRT
<213> Mus musculus

<400> 14
Met Lys Trp Ile Thr Pro Ala Ser Leu Ile Leu Leu Leu His Phe Ala
1 5 10 15
Ala Ser Lys Ala Leu His Glu Asn Glu Phe Gly Ile Ala Ser Thr Leu
20 25 30
Asp Ser Ser Gln Cys Val Thr Glu Lys Asn Val Leu Ser Ile Ala Thr
35 40 45
Ile Thr Phe Thr Gln Phe Val Pro Glu Ala Thr Glu Glu Glu Val Asn
50 55 60
Lys Met Thr Ser Asp Val Leu Ala Ala Met Lys Lys Asn Ser Gly Asp
65 70 75 80
Gly Cys Leu Glu Ser Gln Leu Ser Val Phe Leu Asp Glu Ile Cys His
85 90 95
Glu Thr Glu Leu Ser Asn Lys Tyr Gly Leu Ser Gly Cys Cys Ser Gln
100 105 110
Ser Gly Val Glu Arg His Gln Cys Leu Leu Ala Arg Lys Lys Thr Ala
115 120 125
Pro Ala Ser Val Pro Pro Phe Gln Phe Pro Glu Pro Ala Glu Ser Cys
130 135 140
Lys Ala His Glu Glu Asn Arg Ala Val Phe Met Asn Arg Phe Ile Tyr
145 150 155 160
Glu Val Ser Arg Arg Asn Pro Phe Met Tyr Ala Pro Ala Ile Leu Ser
165 170 175
Leu Ala Ala Gln Tyr Asp Lys Val Val Leu Ala Cys Cys Lys Ala Asp
180 185 190
Asn Lys Glu Glu Cys Phe Gln Thr Lys Arg Ala Ser Ile Ala Lys Glu
195 200 205
Leu Arg Glu Gly Ser Met Leu Asn Glu His Val Cys Ser Val Ile Arg
210 215 220
Lys Phe Gly Ser Arg Asn Leu Gln Ala Thr Thr Ile Ile Lys Leu Ser
225 230 235 240
Gln Lys Leu Thr Glu Ala Asn Phe Thr Glu Ile Gln Lys Leu Ala Leu
245 250 255
Asp Val Ala His Ile His Glu Glu Cys Cys Gln Gly Asn Ser Leu Glu
260 265 270
Cys Leu Gln Asp Gly Glu Lys Val Met Thr Tyr Ile Cys Ser Gln Gln
275 280 285
Asn Ile Leu Ser Ser Lys Ile Ala Glu Cys Cys Lys Leu Pro Met Ile
290 295 300
Gln Leu Gly Phe Cys Ile Ile His Ala Glu Asn Gly Val Lys Pro Glu
305 310 315 320
Gly Leu Ser Leu Asn Pro Ser Gln Phe Leu Gly Asp Arg Asn Phe Ala
325 330 335
Gln Phe Ser Ser Glu Glu Lys Ile Met Phe Met Ala Ser Phe Leu His
340 345 350
Glu Tyr Ser Arg Thr His Pro Asn Leu Pro Val Ser Val Ile Leu Arg
355 360 365

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Ile Ala Lys Thr Tyr Gln Glu Ile Leu Glu Lys Cys Ser Gln Ser Gly
    370                 375                 380
Asn Leu Pro Gly Cys Gln Asp Asn Leu Glu Glu Glu Leu Gln Lys His
385                 390                 395                 400
Ile Glu Glu Ser Gln Ala Leu Ser Lys Gln Ser Cys Ala Leu Tyr Gln
                405                 410                 415
Thr Leu Gly Asp Tyr Lys Leu Gln Asn Leu Phe Leu Ile Gly Tyr Thr
            420                 425                 430
Arg Lys Ala Pro Gln Leu Thr Ser Ala Glu Leu Ile Asp Leu Thr Gly
        435                 440                 445
Lys Met Val Ser Ile Ala Ser Thr Cys Cys Gln Leu Ser Glu Glu Lys
    450                 455                 460
Trp Ser Gly Cys Gly Glu Gly Met Ala Asp Ile Phe Ile Gly His Leu
465                 470                 475                 480
Cys Ile Arg Asn Glu Ala Ser Pro Val Asn Ser Gly Ile Ser His Cys
                485                 490                 495
Cys Asn Ser Ser Tyr Ser Asn Arg Arg Leu Cys Ile Thr Ser Phe Leu
            500                 505                 510
Arg Asp Glu Thr Tyr Ala Pro Pro Pro Phe Ser Glu Asp Lys Phe Ile
        515                 520                 525
Phe His Lys Asp Leu Cys Gln Ala Gln Gly Lys Ala Leu Gln Thr Met
    530                 535                 540
Lys Gln Glu Leu Leu Ile Asn Leu Val Lys Gln Lys Pro Glu Leu Thr
545                 550                 555                 560
Glu Glu Gln Leu Ala Ala Val Thr Ala Asp Phe Ser Gly Leu Leu Glu
                565                 570                 575
Lys Cys Cys Lys Ala Gln Asp Gln Glu Val Cys Phe Thr Glu Glu Gly
            580                 585                 590
Pro Lys Leu Ile Ser Lys Thr Arg Asp Ala Leu Gly Val
        595                 600                 605
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<210> 15
<211> 1818
<212> DNA
<213> Mus musculus

<400> 15

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aagaatgtgc ttagcatagc taccatcacc tttacccagt ttgttccgga agccaccgag 180
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tctaacaagt atggactctc aggctgctgc agccaaagtg gagtggaaag acatcagtgt 360
ctgctggcac gcaagaagac tgctccggcc tctgtcccac ccttccagtt tccagaacct 420
gccgagagtt gcaaagcaca tgaagaaaac agggcagtgt tcatgaacag gttcatctat 480
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gatgctttgg gcgtttaa 1818

<210> 16
<211> 9
<212> PRT
<213> Mus musculus

<400> 16
Phe Met Asn Arg Phe Ile Tyr Glu Val
1 5

<210> 17
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 17
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30
Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu
50 55 60
Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Tyr Gln Asp Trp Trp Tyr Leu Gly Gln Phe Asp Gln Trp Gly
100 105 110
Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 18
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 18
Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
20 25 30
Ser Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu
35 40 45
Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala
50 55 60
Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn
65 70 75 80
Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95
Tyr Tyr Cys Ala Arg Gly Ser Tyr Tyr Ser Gly Arg Tyr Asp Ala Trp
100 105 110
Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 19

<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 19
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1   5   10   15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
            20   25   30
Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35   40   45
Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
    50   55   60
Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65   70   75   80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
                85   90   95
Ala Arg Glu Ile Arg Gly Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp
            100   105   110
Gly Gln Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 20
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 20
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
 1   5   10   15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
            20   25   30
Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35   40   45
Ser Gly Ile Ser Trp Asn Ser Gly Arg Ile Gly Tyr Ala Asp Ser Val
    50   55   60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65   70   75   80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85   90   95
Ala Arg Ala Asp Asp Tyr Gly Ala Pro Tyr Tyr Tyr Tyr Gly Met Asp
            100   105   110
Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
        115   120

<210> 21
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 21
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gly
 1   5   10   15
Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Gly Ser Ile Ser Ser Ser
            20   25   30
Asn Trp Trp Ser Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
        35   40   45

Ile Gly Glu Ile Tyr His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu
50 55 60
Lys Ser Arg Val Thr Ile Ser Val Asp Lys Ser Lys Asn Gln Phe Ser
65 70 75 80
Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Thr Gly Tyr Gly Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 22
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 22
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30
Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu
50 55 60
Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Asp Ser Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln
100 105 110
Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 23
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 23
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15
Ser Leu Thr Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Pro Asn Tyr
20 25 30
Trp Ile Thr Trp Val Arg Gln Met Ser Gly Gly Gly Leu Glu Trp Met
35 40 45
Gly Arg Ile Asp Pro Gly Asp Ser Tyr Thr Thr Tyr Asn Pro Ser Phe
50 55 60
Gln Gly His Val Thr Ile Ser Ile Asp Lys Ser Thr Asn Thr Ala Tyr
65 70 75 80
Leu His Trp Asn Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95
Ala Arg Tyr Tyr Val Ser Leu Val Asp Ile Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ser
115

<210> 24
<211> 124

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 24
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1   5   10   15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala
            20   25   30
Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35   40   45
Gly Phe Ile Arg Ser Lys Ala Tyr Gly Gly Thr Thr Glu Tyr Ala Ala
    50   55   60
Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ile
65   70   75   80
Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                85   90   95
Tyr Cys Ala Arg Asp Gly Leu Tyr Ser Ser Ser Trp Tyr Asp Ser Asp
            100   105   110
Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115   120

<210> 25
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 25
Gln Met Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
 1   5   10   15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
            20   25   30
Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35   40   45
Ser Gly Ile Ser Trp Asn Ser Gly Ser Ile Gly Tyr Ala Asp Ser Val
    50   55   60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65   70   75   80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys
                85   90   95
Ala Lys Asp Ile His Ser Gly Ser Tyr Tyr Gly Leu Leu Tyr Tyr Ala
            100   105   110
Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
        115   120   125

<210> 26
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 26
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1   5   10   15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
            20   25   30
Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35   40   45
Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu

50 55 60
Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Phe Gln Asp Trp Trp Tyr Leu Gly Gln Phe Asp Gln Trp Gly
100 105 110
Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 27
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 27
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15
Ser Ile Thr Ile Ser Cys Thr Ala Thr Gly Ser Asp Val Gly Val Tyr
20 25 30
Tyr Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Val
35 40 45
Met Ile Tyr Asp Val Gly Asn Arg Pro Pro Gly Val Ser Asn Arg Phe
50 55 60
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Tyr Thr Asn Arg
85 90 95
Asn Ser Leu Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu
100 105 110
Gly

<210> 28
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 28
Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15
Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn
20 25 30
Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
35 40 45
Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60
Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly
65 70 75 80
Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser
85 90 95
Ser Thr Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 29
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 29
Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys
 1   5   10   15
Thr Ala Arg Ile Thr Cys Gly Gly Asp Asn Ile Gly Thr Lys Ser Val
            20   25   30
Thr Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Met Met Val Ile Tyr
        35   40   45
Tyr Asp Thr Val Arg Pro Ser Gly Ile Pro Glu Arg Leu Ser Gly Ser
    50   55   60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Arg Val Glu Ala Gly
65   70   75   80
Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Ser Ser Asp His
                85   90   95
Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
            100   105

<210> 30
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 30
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln
 1   5   10   15
Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
            20   25   30
Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
        35   40   45
Leu Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
    50   55   60
Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65   70   75   80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser
                85   90   95
Leu Ser Gly Ser Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
            100   105   110

<210> 31
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 31
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys
 1   5   10   15
Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Ile Gly Ser Lys Ser Val
            20   25   30
His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
        35   40   45
Tyr Asp Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
    50   55   60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
65   70   75   80
Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Ser Ser Asp His
                85   90   95
Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
            100   105

<210> 32
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 32
Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
 1   5   10   15
Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly
            20   25   30
His Tyr Pro Tyr Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Arg Thr
        35   40   45
Leu Ile Tyr Asp Ala Ser Asp Lys His Ser Trp Thr Pro Ala Arg Phe
    50   55   60
Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Ala
65   70   75   80
Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Leu Leu Ser Tyr Ser Asp
                85   90   95
Ala Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
            100   105   110

<210> 33
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 33
Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1   5   10   15
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
            20   25   30
Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
        35   40   45
Met Ile Tyr Asp Val Asn Asn Arg Pro Ser Glu Val Ser Asn Arg Phe
    50   55   60
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65   70   75   80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Gly
                85   90   95
Ser Arg Ala Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
            100   105   110

<210> 34
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 34
Gln Ser Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
 1   5   10   15
Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
            20   25   30
Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
        35   40   45
Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser

```
    50                  55                  60
Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65                  70                  75                  80
Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Gly Ser Leu
                85                  90                  95
Tyr Thr Met Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
            100                 105                 110


<210> 35
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 35
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln
 1               5                  10                  15
Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
            20                  25                  30
Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
        35                  40                  45
Leu Ile Phe Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
    50                  55                  60
Ser Gly Phe Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65                  70                  75                  80
Gln Ala Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Asp Ser Ser
                85                  90                  95
Leu Ser Gly Ser Gly Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu
            100                 105                 110
Gly



<210> 36
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 36
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1               5                  10                  15
Ser Ile Thr Ile Ser Cys Thr Ala Thr Gly Ser Asp Val Gly Val Tyr
            20                  25                  30
Tyr Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Val
        35                  40                  45
Met Ile Tyr Asp Val Asp Asn Arg Pro Pro Gly Val Ser Asn Arg Phe
    50                  55                  60
Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65                  70                  75                  80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Tyr Thr Asn Arg
                85                  90                  95
Asn Ser Leu Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu
            100                 105                 110
Gly



<210> 37
<211> 363
<212> DNA
<213> Artificial Sequence
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<220>
<223> Synthetic Construct

<400> 37
gaggtccagc tggtacagtc tggagctgag gtgaagaagc ctggggcctc agtgaaggtc 60
tcctgcaagg cttctggtta cacctttacc agctatggta tcagctgggt gcgacaggcc 120
cctggacaag ggcttgagtg gatgggatgg atcagcgctt acaatggtaa cacaaactat 180
gcacagaagc tccagggcag agtcaccatg accacagaca catccacgag cacagcctac 240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gcgctaccag 300
gactggtggt acctgggtca gttcgatcag tggggtcaag gtactctggt gaccgtctcc 360
tca 363

<210> 38
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 38
caggtacagc tgcagcagtc aggtccagga ctggtgaagc cctcgcagac cctctcactc 60
acctgtgcca tttccgggga cagtgtctct agcaacagtg ctgcttggaa ctggatcagg 120
cagtccccat cgagaggcct tgagtggctg ggaaggacat actacaggtc caagtggtat 180
aatgattatg cagtatctgt gaaaagtcga ataaccatca acccagacac atccaagaac 240
cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgcg 300
cgcggttctt actactctgg tcgttacgat gcttggggtc aaggtactct ggtgaccgtc 360
tcctca 366

<210> 39
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 39
caggtccagc tggtacagtc tggggctgag gtgaagaagc ctgggtcctc ggtgaaggtc 60
tcctgcaagg cttctggagg caccttcagc agctatgcta tcagctgggt gcgacaggcc 120
cctggacaag ggcttgagtg gatgggaggg atcatcccta tctttggtac agcaaactac 180
gcacagaagt tccagggcag agtcacgatt accgcggacg aatccacgag cacagcctac 240
atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagagaaatt 300
aggggctact actactacta cggtatggac gtctggggcc aagggaccac ggtcaccgtc 360
tcctca 366

<210> 40
<211> 372
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 40
gaggtgcagc tggtggagtc tgggggaggc ttggtacagc ctggcaggtc cctgagactc 60
tcctgtgcag cctctggatt cacctttgat gattatgcca tgcactgggt ccggcaagct 120
ccagggaagg gcctggagtg ggtctcaggt attagttgga acagtggtag aataggctat 180
gcggactctg tgaagggccg attcaccatc tccagagaca acgccaagaa ctccctgtat 240
ctgcaaatga acagtctgag agctgaggac acggctgtgt attactgtgc gagagccgat 300
gactacggcg ccccctacta ctactacggt atggacgtct ggggccaagg gaccacggtc 360
accgtctcct ca 372

<210> 41
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 338
<223> n = A,T,C or G

<400> 41
caggtgcagc tgcaggagtc gggcccagga ctggtgaagc cttcggggac cctgtccctc 60
acctgcgctg tctctggtgg ctccatcagc agtagtaact ggtggagttg ggtccgccag 120
cccccaggga aggggctgga gtggattggg gaaatctatc atagtgggag caccaactac 180
aacccgtccc tcaagagtcg agtcaccata tcagtagaca agtccaagaa ccagttctcc 240
ctgaagctga gctctgtgac cgccgcggac acggccgtgt attactgtgc gaccggttat 300
ggggggtact ttgactactg gggccaggga accctggnca ccgtctcctc a 351

<210> 42
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 42
gaagtgcagc tggtgcagtc tggagctgag gtgaagaagc ctggggcctc agtgaaggtc 60
tcctgcaagg cttctggtta cacctttacc agctatggta tcagctgggt gcgacaggcc 120
cctggacaag ggcttgagtg gatgggatgg atcagcgctt acaatggtaa cacaaactat 180
gcacagaagc tccagggcag agtcaccatg accacagaca catccacgag cacagcctac 240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagattcc 300
tactactact actacggtat ggacgtctgg ggccaaggga ccacggtcac cgtctcctca 360

<210> 43
<211> 351
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 43
gaggtgcagc tggtgcagtc tggcgccgaa gtgaagaagc ctggcgagag cctgaccatc 60
tcctgcaagg ccagcggcta cagcttcccc aactactgga tcacctgggt gcgccagatg 120
tccggcggag gcctggaatg gatgggcaga atcgaccccg gcgacagcta cacaacctac 180
aaccccagct tccagggcca cgtgaccatc agcatcgaca agagcaccaa taccgcctac 240
ctgcactgga acagcctgaa ggcctccgac accgccatgt actactgcgc ccggtactat 300
gtgtccctgg tggatatctg gggccagggc acactcgtga ccgtgtctag c 351

<210> 44
<211> 372
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 44
gaggtgcagc tggtggagtc tgggggaggc ttggtaaagc ctggggggtc ccttagactc 60
tcctgtgcag cctctggatt cactttcagt aacgcctgga tgagctgggt ccgccaggct 120
ccagggaagg ggctggagtg ggtaggtttc attagaagca aagcttatgg tgggacaaca 180
gaatacgccg cctctgtgaa aggcagattc accatctcaa gagatgattc caaaagcatc 240
gcctatctgc aaatgaacaa cctgaaaacc gaggacacag ccgtgtatta ctgtgctaga 300
gatgggctgt atagcagcag ctggtacgat tctgactact ggggccaggg aaccctggtc 360
accgtctcct ca 372

<210> 45
<211> 378

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 45
cagatgcagc tggtgcagtc tgggggaggc ttggtacagc ctggcaggtc cctgagactc 60
tcctgtgcag cctctggatt cacctttgat gattatgcca tgcactgggt ccggcaagct 120
ccagggaagg gcctggagtg ggtctcaggt attagttgga atagtggtag cataggctat 180
gcggactctg tgaagggccg attcaccatc tccagagaca acgccaagaa ctccctgtat 240
ctgcaaatga acagtctgag agctgaggac acggccttgt attactgtgc aaaagatatc 300
catagtggga gctactacgg cctactctac tacgctatgg acgtctgggg ccaagggacc 360
acggtcaccg tctcctca 378

<210> 46
<211> 363
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 46
gaggtgcagc tggtgcagtc tggcgccgaa gtgaagaaac caggcgccag cgtgaaggtg 60
tcctgcaagg ccagcggcta cacctttacc agctacggca tcagctgggt gcgccaggct 120
cctggacagg gcctggaatg gatgggctgg atcagcgcct acaacggcaa taccaactac 180
gcccagaaac tgcagggcag agtgaccatg accaccgaca ccagcacctc caccgcctac 240
atggaactgc ggagcctgag aagcgacgac accgccgtgt actattgcgc ccggttccag 300
gactggtggt atctgggcca gttcgaccag tggggccagg gcacactcgt gaccgtgtct 360
agc 363

<210> 47
<211> 338
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 47
caatctgccc tgactcagcc tgcctccgtg tctgggtctc ctggacagtc gatcaccatc 60
tcctgcactg caaccggcag tgacgttggt gtttattact atgtctcctg gtaccaacaa 120
cacccaggca aagcccccaa agtgatgatt tatgatgtcg gtaatcggcc cccaggggtt 180
tctaatcgct tctctggctc caagtctggc aacacggcct ccctgaccat ctctgggctc 240
caggctgagg acgaggctga ttattactgc gcctcatata caaacaggaa cagtctcggc 300
tatgtcttcg gaaccgggac caaggtcacc gtcctagg 338

<210> 48
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 48
aattttatgc tgactcagcc ccactctgtg tcggagtctc cggggaagac ggtaaccatc 60
tcctgcaccc gcagcagtgg cagcattgcc agcaactatg tgcagtggta ccagcagcgc 120
ccgggcagtt cccccaccac tgtgatctat gaggataacc aaagaccctc tggggtccct 180
gatcggttct ctggctccat cgacagctcc tccaactctg cctccctcac catctctgga 240
ctgaagactg aggacgaggc tgactactac tgtcagtctt atgatagcag caccgtggta 300
ttcggcggag ggaccaagct gaccgtccta ggt 333

<210> 49
<211> 327
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 49
tcctatgagc tgactcagcc accctcggtg tcagtggccc ctggcaagac ggccaggatt 60
acctgtgggg gtgacaacat tggaactaaa agtgtgacct ggtaccaaca gaggccaggc 120
caggccccta tgatggtcat ctattatgat accgtccggc cctcagggat ccctgagcga 180
ctctctggct ccaactctgg gaacacggcc accctgacca tcaccagggt cgaagccggg 240
gatgaggccg actattactg tcaggtgtgg gatagtagta gtgatcatcc ggtgttcggc 300
ggagggacca agctgaccgt cctaggt 327

<210> 50
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 50
cagtctgtgt tgacgcagcc gccctcagtg tctggggccc cggggcagag ggtcaccatc 60
tcctgcactg ggagcagctc caacatcggg gcaggttatg atgtacactg gtaccagcag 120
cttccaggaa cagcccccaa actcctcatc tatggtaaca gcaatcggcc ctcaggggtc 180
cctgaccgat tctctggctc caagtctggc acctcagcct ccctggccat cactgggctc 240
caggctgagg atgaggctga ttattactgc cagtcctatg acagcagcct gagtggttca 300
gtcttcggaa ctgggaccaa ggtcaccgtc ctaggt 336

<210> 51
<211> 327
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 51
cagtctgtgt tgactcagcc accctcagtg tcagtggccc caggaaagac ggccaggatt 60
acctgtgggg gaaacaacat tggaagtaaa agtgtgcact ggtaccagca gaagccaggc 120
caggcccctg tgctggtcat ctattatgat agcgaccggc cctcagggat ccctgagcga 180
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaagccggg 240
gatgaggccg actattactg tcaggtgtgg gatagtagta gtgatcatgt ggtattcggc 300
ggagggacca agctgaccgt cctaggt 327

<210> 52
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 52
caggctgtgg tgactcagga gccctcactg actgtgtccc caggagggac agtcactctc 60
acctgtggct ccagcactgg agctgtcacc agtggtcatt atccctactg gttccagcag 120
aagcctggcc aagcccccag gacactgatt tatgatgcaa gcgacaaaca ctcctggaca 180
cctgcccggt tctcaggctc cctccttggg ggcaaagctg ccctgaccct ttcgggtgcg 240
cagcctgagg atgaggctga gtattactgc ttgctctcct atagtgatgc tctggtgttc 300
ggcggaggga ccaagctgac cgtcctaggt 330

<210> 53
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 53
cagagcgtgc tgacacagcc tgcctccgtg tctggctctc ctggccagtc catcaccatc 60
agctgtaccg gcaccagctc cgacgtgggc ggctacaatt acgtgtcctg gtatcagcag 120
catcccggca aggcccccaa gctgatgatc tacgacgtga acaaccggcc cagcgaggtg 180
tccaacagat tcagcggcag caagagcggc aacaccgcca gcctgacaat cagcggactg 240
caggccgagg acgaggccga ctactactgc agcagctaca ccaccggcag cagagccgtg 300
tttggcggag gcaccaagct gacagtgctg ggc 333

<210> 54
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 54
cagtctgtcg tgacgcagcc gccctcagtg tctgcggccc caggacagaa ggtcaccatc 60
tcctgctctg gaagcagctc caacattggg aataattatg tatcctggta ccagcagctc 120
ccaggaacag cccccaaact cctcatttat gacaataata agcgaccctc agggattcct 180
gaccgattct ctggctccaa gtctggcacg tcagccaccc tgggcatcac cggactccag 240
actggggacg aggccgatta ctactgcgga acatgggatg gcagcctcta tactatgtta 300
ttcggcggag ggaccaagct gaccgtccta ggt 333

<210> 55
<211> 339
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 55
cagtctgtgt tgacgcagcc gccctcagtg tctggggccc cagggcagag ggtcaccatc 60
tcctgcactg ggagcagctc caacatcggg gcaggttatg atgtacactg gtaccagcag 120
cttccaggaa cagcccccaa actcctcatc tttggtaaca gcaatcggcc ctcaggggtc 180
cctgaccgat tctctggctt caagtctggc acctcagcct ccctggccat cactgggctc 240
caggctgagg atgaggctga ctatttctgc cagtcgtatg acagtagcct gagtggttcg 300
ggggtcttcg gaactgggac caaggtcacc gtcctaggt 339

<210> 56
<211> 339
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 56
cagagcgccc tgacacagcc tgcctccgtg tctggatctc ccggccagag catcaccatc 60
agctgcacag ccaccggctc cgacgtgggc gtgtactact acgtgtcctg gtatcagcag 120
catcccggca aggcccccaa agtgatgatc tacgacgtgg acaaccggcc tcccggcgtg 180
tccaatagat tcagcggcag caagagcggc aacaccgcca gcctgacaat cagcggactg 240
caggccgagg acgaggccga ttactactgc gccagctaca ccaaccggaa cagcctgggc 300
tacgtgttcg gcaccggcac caaagtgaca gtgctgggc 339

<210> 57
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 57
Gly Tyr Thr Phe Thr Ser Tyr Gly
 1   5

<210> 58
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 58
Val Ser Ser Asn Ser Ala Ala Trp Asn
 1   5

<210> 59
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 59
Gly Gly Thr Phe Ser Ser Tyr Ala
 1   5

<210> 60
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 60
Gly Phe Thr Phe Asp Asp Tyr Ala
 1   5

<210> 61
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 61
Gly Gly Ser Ile Ser Ser Ser Asn Trp
 1   5

<210> 62
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 62
Gly Tyr Thr Phe Thr Ser Tyr Gly
 1   5

<210> 63
<211> 8

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 63
Gly Tyr Ser Phe Pro Asn Tyr Trp
 1   5

<210> 64
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 64
Gly Phe Thr Phe Ser Asn Ala Trp
 1   5

<210> 65
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 65
Gly Phe Thr Phe Asp Asp Tyr Ala
 1   5

<210> 66
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 66
Gly Tyr Thr Phe Thr Ser Tyr Gly
 1   5

<210> 67
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 67
Ile Ser Ala Tyr Asn Gly Asn Thr
 1   5

<210> 68
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 68
Tyr Arg Ser Lys Trp Tyr Asn
 1   5

<210> 69
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 69
Ile Ile Pro Ile Phe Gly Thr Ala
 1   5

<210> 70
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 70
Ile Ser Trp Asn Ser Gly Arg Ile
 1   5

<210> 71
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 71
Ile Tyr His Ser Gly Ser Thr
 1   5

<210> 72
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 72
Ile Ser Ala Tyr Asn Gly Asn Thr
 1   5

<210> 73
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 73
Ile Asp Pro Gly Asp Ser Tyr Thr
 1   5

<210> 74
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 74
Ile Arg Ser Lys Ala Tyr Gly Gly Thr Thr
 1   5   10

<210> 75
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 75
Ile Ser Trp Asn Ser Gly Ser Ile
 1   5

<210> 76
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 76
Ile Ser Ala Tyr Asn Gly Asn Thr
 1   5

<210> 77
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 77
Ala Arg Tyr Gln Asp Trp Trp Tyr Leu Gly Gln Phe Asp Gln
 1   5   10

<210> 78
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 78
Ala Arg Gly Ser Tyr Tyr Ser Gly Arg Tyr Asp Ala
 1   5   10

<210> 79
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 79
Ala Arg Glu Ile Arg Gly Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val
 1   5   10   15

<210> 80
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 80
Ala Arg Ala Asp Asp Tyr Gly Ala Pro Tyr Tyr Tyr Tyr Gly Met Asp
 1   5   10   15
Val

<210> 81
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 81
Ala Thr Gly Tyr Gly Gly Tyr Phe Asp Tyr
 1   5   10

<210> 82
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 82
Ala Arg Asp Ser Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val
 1   5   10

<210> 83
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 83
Ala Arg Tyr Tyr Val Ser Leu Val Asp Ile
 1   5   10

<210> 84
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 84
Ala Arg Asp Gly Leu Tyr Ser Ser Ser Trp Tyr Asp Ser Asp Tyr
 1   5   10   15

<210> 85
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 85
Ala Lys Asp Ile His Ser Gly Ser Tyr Tyr Gly Leu Leu Tyr Tyr Ala
 1   5   10   15
Met Asp Val

<210> 86
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 86
Ala Arg Phe Gln Asp Trp Trp Tyr Leu Gly Gln Phe Asp Gln
 1   5   10

<210> 87
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 2
<223> Xaa = F or Y

<220>
<221> VARIANT
<222> 3
<223> Xaa = S or T

<220>
<221> VARIANT
<222> 5
<223> Xaa = D or S or T

<220>
<221> VARIANT
<222> 6

<223> Xaa = D or N or S

<220>
<221> VARIANT
<222> 7
<223> Xaa = Y or A

<220>
<221> VARIANT
<222> 8
<223> Xaa = A or G or W

<400> 87
Gly Xaa Xaa Phe Xaa Xaa Xaa Xaa
 1   5

<210> 88
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1
<223> Xaa = I or S

<220>
<221> VARIANT
<222> 2
<223> Xaa = K or S

<220>
<221> VARIANT
<222> 3
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 4
<223> Xaa = H or Y

<220>
<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 7
<223> Xaa = Any Amino Acid

<400> 88
Xaa Xaa Xaa Xaa Xaa Gly Xaa Thr
 1   5

<210> 89
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1
<223> Xaa = A or G

<220>
<221> VARIANT
<222> 2, 5, 6, 7
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 3
<223> Xaa = W or Y

<220>
<221> VARIANT
<222> 8
<223> Xaa = F or Y

<400> 89
Xaa Xaa Xaa Tyr Xaa Xaa Xaa Xaa Asp
 1   5

<210> 90
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 90
Gly Ser Asp Val Gly Val Tyr Tyr Tyr
 1   5

<210> 91
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 91
Ser Gly Ser Ile Ala Ser Asn Tyr
 1   5

<210> 92
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 92
Asn Ile Gly Thr Lys Ser
 1   5

<210> 93
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 93
Ser Ser Asn Ile Gly Ala Gly Tyr Asp
 1   5

<210> 94
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 94
Asn Ile Gly Ser Lys Ser
 1   5

<210> 95
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 95
Thr Gly Ala Val Thr Ser Gly His Tyr
 1   5

<210> 96
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 96
Ser Ser Asp Val Gly Gly Tyr Asn Tyr
 1   5

<210> 97
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 97
Ser Ser Asn Ile Gly Asn Asn Tyr
 1   5

<210> 98
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 98
Ser Ser Asn Ile Gly Ala Gly Tyr Asp
 1   5

<210> 99
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 99
Gly Ser Asp Val Gly Val Tyr Tyr Tyr
 1   5

<210> 100
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 100
Asp Val Gly
 1

<210> 101
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 101
Glu Asp Asn
 1

<210> 102
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 102
Tyr Asp Thr
 1

<210> 103
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 103
Gly Asn Ser

1

<210> 104
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 104
Tyr Asp Ser
1

<210> 105
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 105
Asp Ala Ser
1

<210> 106
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 106
Asp Val Asn
1

<210> 107
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 107
Asp Asn Asn
1

<210> 108
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 108
Gly Asn Ser
1

<210> 109
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 109
Asp Val Asp
 1

<210> 110
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 110
Ala Ser Tyr Thr Asn Arg Asn Ser Leu Gly Tyr Val
 1   5   10

<210> 111
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 111
Gln Ser Tyr Asp Ser Ser Thr Val Val
 1   5

<210> 112
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 112
Gln Val Trp Asp Ser Ser Ser Asp His Pro Val
 1   5   10

<210> 113
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 113
Gln Ser Tyr Asp Ser Ser Leu Ser Gly Ser Val
 1   5   10

<210> 114
<211> 11
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 114
Gln Val Trp Asp Ser Ser Ser Asp His Val Val
 1   5   10

<210> 115
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 115
Leu Leu Ser Tyr Ser Asp Ala Leu Val
 1   5

<210> 116
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 116
Ser Ser Tyr Thr Thr Gly Ser Arg Ala Val
 1   5   10

<210> 117
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 117
Gly Thr Trp Asp Gly Ser Leu Tyr Thr Met Leu
 1   5   10

<210> 118
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 118
Gln Ser Tyr Asp Ser Ser Leu Ser Gly Ser Gly Val
 1   5   10

<210> 119
<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 119
Ala Ser Tyr Thr Asn Arg Asn Ser Leu Gly Tyr Val
 1   5   10

<210> 120
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1
<223> Xaa = S or T

<220>
<221> VARIANT
<222> 2
<223> Xaa = G or S

<220>
<221> VARIANT
<222> 3
<223> Xaa = D or N

<220>
<221> VARIANT
<222> 4
<223> Xaa = I or V

<220>
<221> VARIANT
<222> 5
<223> Xaa = A or G

<220>
<221> VARIANT
<222> 6
<223> Xaa = A or S or V

<220>
<221> VARIANT
<222> 7
<223> Xaa = Any Amino Acid

<220>
<221> VARIANT
<222> 8
<223> Xaa = H or Y

<400> 120
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 121
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> 2
<223> Xaa = S or T

<220>
<221> VARIANT
<222> 3
<223> Xaa = Y or W

<220>
<221> VARIANT
<222> 4
<223> Xaa = D or T

<220>
<221> VARIANT
<222> 5
<223> Xaa = S or T

<220>
<221> VARIANT
<222> 6
<223> Xaa = A or S

<400> 121
Gln Xaa Xaa Xaa Xaa Xaa
 1   5

<210> 122
<211> 9
<212> PRT
<213> Homo sapiens

<400> 122
Leu Leu Asp Val Pro Thr Ala Ala Val
 1   5

<210> 123
<211> 9
<212> PRT
<213> Homo sapiens

<400> 123
Thr Leu Trp Val Asp Pro Tyr Glu Val
 1   5

<210> 124
<211> 9
<212> PRT
<213> Homo sapiens

<400> 124
Phe Leu Leu Asp His Leu Lys Arg Val
 1   5

<210> 125
<211> 10
<212> PRT
<213> Homo sapiens

<400> 125
Leu Leu Leu Asp Val Pro Thr Ala Ala Val
 1   5   10

<210> 126
<211> 13
<212> PRT
<213> Homo sapiens

<400> 126
Val Leu Phe Arg Gly Gly Pro Arg Gly Leu Leu Ala Val
 1   5   10

<210> 127
<211> 9
<212> PRT
<213> Homo sapiens

<400> 127
Ser Leu Leu Pro Ala Ile Val Glu Leu
 1   5

<210> 128
<211> 9
<212> PRT
<213> Homo sapiens

<400> 128
Tyr Leu Leu Pro Ala Ile Val His Ile
 1   5

<210> 129
<211> 9
<212> PRT
<213> Homo sapiens

<400> 129
Phe Leu Leu Pro Thr Gly Ala Glu Ala
 1   5

<210> 130
<211> 10
<212> PRT
<213> Homo sapiens

<400> 130
Leu Leu Asp Pro Lys Leu Cys Tyr Leu Leu
 1   5   10

<210> 131
<211> 10
<212> PRT
<213> Homo sapiens

<400> 131
Ser Leu Pro His Phe His His Pro Glu Thr
 1   5   10

<210> 132
<211> 10
<212> PRT
<213> Homo sapiens

<400> 132

Met Leu Leu Ser Val Pro Leu Leu Leu Gly
 1   5   10

<210> 133
<211> 11
<212> PRT
<213> Homo sapiens

<400> 133
Leu Leu Tyr Asp Met Val Cys Gly Asp Ile Pro
 1   5   10

<210> 134
<211> 11
<212> PRT
<213> Homo sapiens

<400> 134
Leu Leu Leu Asp Val Pro Thr Ala Ala Val Gln
 1   5   10

<210> 135
<211> 12
<212> PRT
<213> Homo sapiens

<400> 135
Leu Leu Leu Asp Val Pro Thr Ala Ala Val Gln Ala
 1   5   10

<210> 136
<211> 14
<212> PRT
<213> Homo sapiens

<400> 136
Val Leu Phe Arg Gly Gly Pro Arg Gly Leu Leu Ala Val Ala
 1   5   10

<210> 137
<211> 9
<212> PRT
<213> Homo sapiens

<400> 137
Met Val Asp Gly Thr Leu Leu Leu Leu
 1   5

<210> 138
<211> 10
<212> PRT
<213> Homo sapiens

<400> 138
Tyr Met Ala Pro Glu Ile Leu Met Arg Ser
 1   5   10

<210> 139
<211> 10
<212> PRT
<213> Homo sapiens

<400> 139
Phe Ile Tyr Asn Ala Asp Leu Met Asn Cys
 1   5   10

<210> 140
<211> 11
<212> PRT
<213> Homo sapiens

<400> 140
Lys Gln Tyr Glu Ser Val Leu Met Val Ser Ile
 1   5   10

<210> 141
<211> 9
<212> PRT
<213> Homo sapiens

<400> 141
Ile Leu Ala Lys Phe Leu His Trp Leu
 1   5