SEQUENCE LISTING

<110> THE ROCKEFELLER UNIVERSITY

<120> COMPOSITIONS AND METHODS RELATED TO HUMAN NEUTRALIZING ANTIBODIES TO HEPATITIS B

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<150> 62/982,276
<151> 2020-02-27

<150> 62/898,735
<151> 2019-09-11

<160> 1488

<170> PatentIn version 3.5

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Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
20 25 30

Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
35 40 45

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

Pro Gly Phe Thr Pro Pro His Gly Gly Leu Leu Gly Trp Ser Pro Gln

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65                  70                  75                  80

Ala Gln Gly Ile Leu Thr Thr Val Pro Val Ala Pro Pro Pro Ala Ser
                85                  90                  95

Thr Asn Arg Gln Ser Gly Arg Gln Pro Thr Pro Ile Ser Pro Pro Leu
            100                 105                 110

Arg Asp Ser His Pro Gln Ala Met Gln Trp Asn Ser Thr Thr Phe His
        115                 120                 125

Gln Ala Leu Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala Gly
    130                 135                 140

Gly Ser Ser Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser Pro
145                 150                 155                 160

Ile Ser Ser Ile Phe Ser Arg Thr Gly Asp Pro Ala Pro Asn Met Glu
                165                 170                 175

Ser Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly
            180                 185                 190

Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser
        195                 200                 205

Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly
    210                 215                 220

Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro
225                 230                 235                 240

Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile
                245                 250                 255

Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu
            260                 265                 270

Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser
        275                 280                 285
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Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ser Pro Ala Gln Gly
    290                 295                 300

Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn
305                 310                 315                 320

Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu
                325                 330                 335

Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro
            340                 345                 350

Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val
        355                 360                 365

Ile Trp Met Met Trp Tyr Trp Gly Pro Cys Leu Tyr Asn Ile Leu Ser
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Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
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            20                  25                  30

Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys
        35                  40                  45

Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser
    50                  55                  60

Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe
65                  70                  75                  80

Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
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85 90 95

Leu Leu Asp Tyr His Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly
100 105 110

Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala
115 120 125

Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp
130 135 140

Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg
145 150 155 160

Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu
165 170 175

Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu
180 185 190

Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile
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Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
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Tyr Ile
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atcatattcc tcttcatcct gctgctatgc ctcatcttct tattggttct tctggattat 300

caaggtatgt tgcccgtttg tcctctaatt ccaggatcaa caacaaccag tacgggacca 360

tgcaaaacct gcacgactcc tgctcaaggc aactctatgt ttccctcatg ttgctgtaca 420

aaacctacgg atggaaattg cacctgtatt cccatcccat cgtcctgggc tttcgcaaaa 480

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cagtggttcg tagggctttc ccccactgtt tggctttcag ctatatggat gatgtggtat 600

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Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ser Pro Val Cys
35 40 45

Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser
50 55 60

Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe
65 70 75 80

Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
85 90 95

Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Ile Pro Gly
100 105 110

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115 120 125

Gln Gly Asn Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Thr Asp
130 135 140

Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Lys
145 150 155 160

Tyr Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu
165 170 175

Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu
180 185 190

Ser Ala Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Ser Ile
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Tyr Ile
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1   5

<210> 9
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1   5

<210> 10
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Leu

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1   5

<210> 12
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<400> 12
Gln Gln Tyr Asp His Trp Pro Leu Thr
1   5

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<400> 13

Gly Phe Thr Phe Ser Asn Tyr Trp
1 5

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1 5

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<400> 16
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1 5

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<400> 17
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<210> 18
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<210> 19

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Tyr Tyr Ala Leu Asp Phe
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Ile Ser Thr Tyr Asn Gly Lys Thr
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Lys Leu Thr Leu Asp Tyr
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1   5   10

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1   5

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Lys Leu Thr Leu Asp Tyr
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Lys Leu Thr Leu Asp Tyr
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Asp Val

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1   5

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His Asp Ala Phe Asp Ile
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Ser Glu Tyr Phe His Tyr
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Ala Val Gly His His Trp His Phe Lys Tyr
1   5   10

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1   5   10

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1   5   10

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1   5

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Tyr

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Gly Tyr Thr Phe Thr Ser Tyr Gly
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<400> 1273
Ile Asn Thr Asn Thr Gly Asn Pro
1 5

<210> 1274
<211> 19
<212> PRT
<213> Homo sapiens

<400> 1274
Ala Arg Gly Ala Arg Ser Tyr Tyr Asp Ser Ser Gly Tyr Tyr Ser Trp
1 5 10 15

Ser Asp Tyr

<210> 1275
<211> 12
<212> PRT
<213> Homo sapiens

<400> 1275
Gln Ser Val Leu Tyr Arg Ser Asn Asn Lys Asn Tyr
1 5 10

<210> 1276
<211> 10
<212> PRT
<213> Homo sapiens

<400> 1276
Gln Gln Tyr Tyr Asn Thr Leu Thr Trp Ala
1 5 10

<210> 1277
<211> 24
<212> DNA
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<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 1277
acaggtgccc actcccaggt gcag 24

<210> 1278
<211> 23
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1278
aaggtgtcca gtgtgargtg cag 23

<210> 1279
<211> 27
<212> DNA
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<223> Description of Artificial Sequence: Synthetic
primer

<400> 1279
cccagatggg tcctgtccca ggtgcag 27

<210> 1280
<211> 24
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1280
caaggagtct gttccgaggt gcag 24

<210> 1281
<211> 23
<212> DNA
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<223> Description of Artificial Sequence: Synthetic
primer

<400> 1281
ggaaggtgtg cacgccgctg gtc 23

<210> 1282
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<223> Description of Artificial Sequence: Synthetic primer

<400> 1282
gttcggggaa gtagtccttg ac 22

<210> 1283
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<223> Description of Artificial Sequence: Synthetic primer

<400> 1283
atgaggstcc cygctcagct gctgg 25

<210> 1284
<211> 28
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1284
ctcttcctcc tgctactctg gctcccag 28

<210> 1285
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1285
atttctctgt tgctctggat ctctg 25

<210> 1286
<211> 24
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1286
atgacccagw ctccabycwc cctg 24

<210> 1287
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<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1287
gtttctcgta gtctgctttg ctca 24

<210> 1288
<211> 22
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1288
gtgctgtcct tgctgtcctg ct 22

<210> 1289
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<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1289
ggtcctgggc ccagtctgtg ctg 23

<210> 1290
<211> 23

<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1290
ggtcctgggc ccagtctgcc ctg 23

<210> 1291
<211> 23
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1291
gctctgtgac ctcctatgag ctg 23

<210> 1292
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<223> Description of Artificial Sequence: Synthetic
primer

<400> 1292
ggtctctctc scagcytgtg ctg 23

<210> 1293
<211> 23
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1293
gttcttgggc caattttatg ctg 23

<210> 1294
<211> 23
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1294
ggtccaattc ycaggctgtg gtg 23

<210> 1295
<211> 23
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1295
gagtggattc tcagactgtg gtg 23

<210> 1296
<211> 24
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1296
caccagtgtg gccttgttgg cttg 24

<210> 1297
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1297
ctcctcactc gagggyggga acagagtg 28

<210> 1298
<211> 21
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1298
gcttcgttag aacgcggcta c 21

<210> 1299
<211> 53
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1299
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<210> 1300
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1300
ccgatgggcc cttggtcgac gctgaagaga cggtgaccat tgtccctt 48

<210> 1301
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1301
ctagtagcaa ctgcaaccgg tgtacattct gacatccaga tgacccagtc tcca 54

<210> 1302
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1302
gaagacagat ggtgcagcca ccgtacgttt gatctccacc ttggtccctc c 51

<210> 1303
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1303
ctagtagcaa ctgcaaccgg tgtacattct caggtcacct tgaaggagtc tgg 53

<210> 1304
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1304
ccgatgggcc cttggtcgac gctgaggaga cggtgaccag ggtg 44

<210> 1305
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1305
ctagtagcaa ctgcaaccgg ttcctgggcc tcctatgtgc tgacccaggc gc 52

<210> 1306
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1306
ctagtagcaa ctgcaaccgg tgtacattct gagatgcagc tgctggagtc tgg 53

<210> 1307

<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1307
ccgatgggcc cttggtcgac gctgaggaga cagtgaccag ggtgc 45

<210> 1308
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1308
ctagtagcaa ctgcaaccgg ttcctgggcc tcctatatgc tgactcaggc accc 54

<210> 1309
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1309
ctagtagcaa ctgcaaccgg tgtacattct gagatgcaac tggtggagtc tgg 53

<210> 1310
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1310
ccgatgggcc cttggtcgac gctgaggaga cgatgaccgt ggtcc 45

<210> 1311
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1311
ctagtagcaa ctgcaaccgg ttcctgggcc tcctatgtgc tgactcagcc acc 53

<210> 1312
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1312
ctagtagcaa ctgcaaccgg tgtacattct cagatgcgtc tggtggaatc tgg 53

<210> 1313
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1313
ccgatgggcc cttggtcgac gctgaggaga cggtgaccgg ggt 43

<210> 1314
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1314
ctagtagcaa ctgcaaccgg ttcctgggcc tcctatgtgc tgactcagcc acc 53

<210> 1315
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

primer

<400> 1315
ctagtagcaa ctgcaaccgg tgtacattct cagatgcgtc tggtggaatc ggg 53

<210> 1316
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1316
ccgatgggcc cttggtcgac gctgaggaga cggtgaccgg gatc 44

<210> 1317
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1317
ctagtagcaa ctgcaaccgg ttcctgggcc tcctatgtgc tgactcagcc acc 53

<210> 1318
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1318
ctagtagcaa ctgcaaccgg tgtacattct caggtgcacc tggtggagtc tg 52

<210> 1319
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1319

ccgatgggcc cttggtcgac gctgaggaga cggtgaccgt ggtc 44

<210> 1320
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1320
ctagtagcaa ctgcaaccgg tgtacattct gaaattgtgt tgacgcagtc tccag 55

<210> 1321
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1321
gaagacagat ggtgcagcca ccgtacgttt gatctccaac ttggtcccct gg 52

<210> 1322
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1322
ctagtagcaa ctgcaaccgg tgtacattct cagatgcacc tattggagtc tggg 54

<210> 1323
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1323
ccgatgggcc cttggtcgac gctgacgaga cggtgaccct ggtc 44

<210> 1324
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1324
ctagtagcaa ctgcaaccgg ttcctgggcc tcctatgtgc tgactcagcc acc 53

<210> 1325
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1325
ctagtagcaa ctgcaaccgg tgtacattct cagatgaagt tggtggagtc tggg 54

<210> 1326
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1326
ccgatgggcc cttggtcgac gctgaggaga cggtgaccgt ggtc 44

<210> 1327
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1327
ctagtagcaa ctgcaaccgg ttcctgggcc tcctatgtgc tgactcagcc acc 53

<210> 1328
<211> 52
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1328
ctagtagcaa ctgcaaccgg tgtacattct caggtgcagc tggtggagtc tg 52

<210> 1329
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1329
ccgatgggcc cttggtcgac gctgaggaga cggtgaccag ggtt 44

<210> 1330
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1330
ctagtagcaa ctgcaaccgg ttcctgggcc tcctatgtgc tgactcagcc acc 53

<210> 1331
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1331
ctagtagcaa ctgcaaccgg tgtacattct caggttcact tggcggagtc tgg 53

<210> 1332
<211> 46
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 1332
ccgatgggcc cttggtcgac gctgaagaga cggtgaccaa tgtccc 46

<210> 1333
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1333
ctagtagcaa ctgcaaccgg tgtacattct gaagttgtgt tgacacagtc tccagc 56

<210> 1334
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1334
gaagacagat ggtgcagcca ccgtacgttt gatctccagc ttggtcccct g 51

<210> 1335
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1335
ctagtagcaa ctgcaaccgg tgtacattct cagctgcagc tggtggagtc tg 52

<210> 1336
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1336
ccgatgggcc cttggtcgac gctgaggaga cggtgaccag ggttc 45

<210> 1337
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1337
ctagtagcaa ctgcaaccgg ttcctgggcc tcctatgtgc tgactcagcc acc 53

<210> 1338
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1338
ctagtagcaa ctgcaaccgg tgtacattct caggtgcagc tggtggagtc tg 52

<210> 1339
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1339
ccgatgggcc cttggtcgac gctgaggaga cggtgaccag ggct 44

<210> 1340
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1340
ctagtagcaa ctgcaaccgg ttcctgggcc tcctatgtgc tgactcagcc acc 53

<210> 1341
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1341
ctagtagcaa ctgcaaccgg tgtacattct caggtacaac tgatggagtc tggg 54

<210> 1342
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1342
ccgatgggcc cttggtcgac gctgaggaga cggtgaccag ggct 44

<210> 1343
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1343
ctagtagcaa ctgcaaccgg ttcctgggcc tcctatgtgc tgactcagac accc 54

<210> 1344
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1344
ctagtagcaa ctgcaaccgg tgtacattct caggtgcagc tggtggagtc tg 52

<210> 1345
<211> 45

<212> DNA
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<220>
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primer

<400> 1345
ccgatgggcc cttggtcgac gctgaggaga cggtgaccag ggttc 45

<210> 1346
<211> 52
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<220>
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primer

<400> 1346
ctagtagcaa ctgcaaccgg tgtacattct gacatccagg tgacccagtc ac 52

<210> 1347
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<212> DNA
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<220>
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primer

<400> 1347
gaagacagat ggtgcagcca ccgtacgttt gatgtccacc ttggtccctc c 51

<210> 1348
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1348
ctagtagcaa ctgcaaccgg tgtacattct gagatgcacc tggtggagtc tgg 53

<210> 1349
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1349
ccgatgggcc cttggtcgac gctgaggaga cagtgaccag ggtgc 45

<210> 1350
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
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primer

<400> 1350
ctagtagcaa ctgcaaccgg tgtacattct gaaatactgc tgacgcagtc tccag 55

<210> 1351
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1351
gaagacagat ggtgcagcca ccgtacgttt gatctccacc ttggtccctc c 51

<210> 1352
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
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primer

<400> 1352
ctagtagcaa ctgcaaccgg tgtacattct gaggtgcagc tggtggagtc c 51

<210> 1353
<211> 45
<212> DNA
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<220>
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primer

<400> 1353
ccgatgggcc cttggtcgac gctgaggaga cggtgaccag ggttc 45

<210> 1354
<211> 52
<212> DNA
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<220>
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primer

<400> 1354
ctagtagcaa ctgcaaccgg ttcctgggcc cagtctgccc tgactcagcc tg 52

<210> 1355
<211> 53
<212> DNA
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<220>
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primer

<400> 1355
ctagtagcaa ctgcaaccgg tgtacattct gaaggacagc tggtggagtc tgg 53

<210> 1356
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
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primer

<400> 1356
ccgatgggcc cttggtcgac gctgaggaga cggtgaccag ggttc 45

<210> 1357
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1357
ctagtagcaa ctgcaaccgg ttcctgggcc cagtctgtgt tgacgcagcc gc 52

<210> 1358
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1358
ctagtagcaa ctgcaaccgg tgtacattct caggtggtgc tgcaggagtc g 51

<210> 1359
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1359
ccgatgggcc cttggtcgac gctgaagaga cggcgaccag tgtcc 45

<210> 1360
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1360
ctagtagcaa ctgcaaccgg tgtacattct gacatccaga tgacccagtc tccg 54

<210> 1361
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1361
gaagacagat ggtgcagcca ccgtacgttt gatctccagc ttggtcccct g 51

<210> 1362

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

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1362
ctagtagcaa ctgcaaccgg tgtacattct caggtgcagc tgcaggagtc g 51

<210> 1363
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1363
ccgatgggcc cttggtcgac gctgaggaga cggtgaccag gtttcc 46

<210> 1364
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1364
ctagtagcaa ctgcaaccgg tgtacattct gacatccaga tgacccagtc tcca 54

<210> 1365
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1365
gaagacagat ggtgcagcca ccgtacgttt gaactccacc ttggtccctc c 51

<210> 1366
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1366
ggcttgaagc tcctcactcg agggygggaa cagagtg 37

<210> 1367
<211> 489
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1367
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatgcaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1368
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1368
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaagca 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1369
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1369
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

gcattgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1370
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1370
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atggcacccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1371
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1371
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttggcag tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1372
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1372
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg catgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1373
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1373
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtgcact aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1374
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1374
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctgc aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1375
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1375
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct agcaccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1376
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1376
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattgcagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1377
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1377
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagca tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1378
<211> 489

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1378
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga gcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1379
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1379
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcagcaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1380
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1380
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacagcaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1381
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1381
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacag caagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1382
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1382
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccgcaacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1383
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1383
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtgcagg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1384
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1384
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggc accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1385
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1385
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg agcatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1386
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1386
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcgca 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1387
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1387
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

gcatgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1388
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1388
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcgcaa ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1389
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1389
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacgg cacctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1390
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1390
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctgcagctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1391
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1391

acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctgc aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1392
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1392
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca agcaaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1393
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

polynucleotide

<400> 1393
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcgcatct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1394
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1394
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaacgca atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1395
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1395
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct gcatttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1396
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1396
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atggcaccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1397

<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1397
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttgcat catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1398
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1398
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttcccg catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1399
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1399
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tgcaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1400
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1400
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacagcacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1401
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1401
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaagca 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1402
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1402
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

gcagatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1403
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1403
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggcaggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1404
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1404
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatgcaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1405
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1405
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggag catgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1406
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1406
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcgcatg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1407
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1407
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tgcacccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1408
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1408
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattgcaatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1409
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1409
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccgca ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1410
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1410
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc gcatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1411
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1411
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccagcatcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1412
<211> 489
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1412
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcggcat gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1413
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1413
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtccg cagctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1414
<211> 489
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1414
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctgcagc aaaataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1415
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1415
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc agcataccta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1416
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1416
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaagcacta 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1417
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1417
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaatacgca 420

tgggagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1418
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1418
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

gcagagtggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1419
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1419
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggcatggg cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1420
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1420
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggaggcag cctcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1421
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1421
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg ccgcagtccg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1422
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1422
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagcacg tttctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1423
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1423
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtcgc attctcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1424
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1424
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tgcatcttgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1425
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1425
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttcgcatgg ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1426
<211> 489
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1426
acaagaatcc tcacaatacc gcagagtcta gactcgtggt ggacttctct caattttcta 60

gggggatctc ccgtgtgtct tggccaaaat tcgcagtccc caacctccaa tcactcacca 120

acctcctgtc ctccaatttg tcctggttat cgctggatgt gtctgcggcg ttttatcata 180

ttcctcttca tcctgctgct atgcctcatc ttcttattgg ttcttctgga ttatcaaggt 240

atgttgcccg tttgtcctct aattccagga tcaacaacaa ccagtacggg accatgcaaa 300

acctgcacga ctcctgctca aggcaactct atgtttccct catgttgctg tacaaaacct 360

acggatggaa attgcacctg tattcccatc ccatcgtcct gggctttcgc aaaataccta 420

tgggagtggg cctcagtccg tttctctgca ctcagtttac tagtgccatt tgttcagtgg 480

ttcgtaggg 489

<210> 1427
<211> 421
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1427
ctagtagcaa ctgcaaccgg tgtacattct caggtgcagc tggtggagtc tgggggaggc 60

gtggtccagc ctgggaggtc cctgagactc tcctgtgcag cctctggatt caccttcagt 120

agctatggca tgcactgggt ccgccaggct ccaggcaagg ggctggagtg ggtggcagtt 180

atatcatatg atggaagtaa taaatactat gcagactccg tgaagggccg attcaccatc 240

tccagagaca attccaagaa cacgctgtat ctgcaaatga acagcctgag agctgaggac 300

acggctgtgt attactgtgc gaaagatgct tatctttctg cagcgagagg atacggtatg 360

gacgtctggg gccaagggac cacggtcacc gtctcctcag cgtcgaccaa gggcccatcg 420

g 421

<210> 1428
<211> 417
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 1428
ctagtagcaa ctgcaaccgg ttcctgggcc tcctatgtgc tgactcagcc accctcggtg 60

tcagtggccc caggacagac ggccaggatt acctgtgggg gaaacaacat tggaagtaaa 120

agtgtgcact ggtaccagca gaagccaggc caggcccctg tgctggtcgt ctatgatgat 180

agcgaccggc cctcagggat ccctgagcga ttctctggct ccaactctgg gaacacggcc 240

accctgacca tcagcagggt cgaagccggg gatgaggccg actattactg tcaggtgtgg 300

gatagtagta gtgatcatgt ggtattcggc ggagggacca agctgaccgt cctaggtcag 360

cccaaggctg ccccctcggt cactctgttc ccaccctcga gtgaggagct tcaagcc 417

<210> 1429
<211> 412
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 1429
ctagtagcaa ctgcaaccgg tgtacattct caggtgcagc tgcaggagtc gggcccagga 60

ctggtgaagc cttcacagac cctgtccctc acctgcactg tctctggtgg ctccatcagc 120

agtggtgatt actactggag ttggatccgc agcccccag ggaagggcct ggagtggatt 180

gggtacatct attacagtgg gagcacctac tacaacccgt ccctcaagag tcgagttacc 240

atatcagtag acacgtccaa gaaccagttc tccctgaagc tgagctctgt gactgccgca 300

gacacggccg tgtattactg tgccatctac atggatgagg cctgggcttt tgatatctgg 360

ggccaaggga caatggtcac cgtctcttca gcgtcgacca agggcccatc gg 412

<210> 1430
<211> 381
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1430
ctagtagcaa ctgcaaccgg tgtacattct gacatccaga tgacccagtc tccatcctcc 60

ctgtctgcat ctgtaggaga cagagtcacc atcacttgcc gggcaagtca gagcattagc 120

agctatttaa attggtatca gcagaaacca gggaaagccc ctaagctcct gatctatgct 180

gcatccagtt tgcaaagtgg ggtcccatca aggttcagtg gcagtggatc tgggacagat 240

ttcactctca ccatcagcag tctgcaacct gaagattttg caacttacta ctgtcaacag 300

agttacagta tttccttatt cacttttggc caggggacca agctggagat caaacgtacg 360

gtggctgcac catctgtctt c 381

<210> 1431
<211> 415
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 1431
ctagtagcaa ctgcaaccgg tgtacattct caggtgcagc tgcaggagtc gggcccagga 60

ctggtgaagc cttcggagac cctgtccctc acctgcactg tctctggtgg ctccatcagt 120

agttactact ggagctggat ccggcagccc ccagggaagg gactggagtg gattgggtat 180

atctattaca gtgggagcac caactacaac ccctccctca agagtcgagt caccatatca 240

gtagacacgt ccaagaacca gttctccctg aagctgagct ctgtgaccgc cgcagacacg 300

gccgtgtatt actgtgcgag acacctttat cgctatggtt ataggaacta ctttgactac 360

tggggccagg gaaccctggt caccgtctcc tcagcgtcga ccaagggccc atcgg 415

<210> 1432
<211> 378
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 1432
ctagtagcaa ctgcaaccgg tgtacattct gacatccaga tgacccagtc tccatcttcc 60

gtgtctgcat ctgtaggaga cagagtcacc atcacttgtc gggcgagtca gggtattagc 120

agctggttag cctggtatca gcagaaacca gggaaagccc ctaagctcct gatctatgct 180

gcatccagtt tgcaaagtgg ggtcccatca aggttcagcg gcagtggatc tgggacagat 240

ttcactctca ccatcagcag cctgcagcct gaagattttg caacttacta ttgtcaacag 300

gctaacagtt tcccgctcac tttcggcgga gggaccaagg tggagatcaa acgtacggtg 360

gctgcaccat ctgtcttc 378

<210> 1433
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1433
ccgtctgtgc cttctcatct g 21

<210> 1434
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 1434
agtccaagag tcctcttatg taagacctt 29

<210> 1435
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
probe

<400> 1435
cttcgcttca cctctgc 17

<210> 1436
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1436
ccctgcgctg aacatggaga aca 23

<210> 1437
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 1437
aaatgtatac ccaaagacaa aagaaaa 27

<210> 1438
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 1438
Gln Met Arg Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly
1 5 10 15

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

Gly Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
        35   40   45

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

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

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

Ala Lys Asp Gly Tyr Leu Ser Ala Ala Arg Gly Tyr Gly Met Asp Val
            100   105   110

Trp Gly Gln Gly Ile Pro Val Thr Val Ser Pro
        115   120

<210> 1439
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 1439
Gln Met His Leu Leu Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1   5   10   15

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

Gly Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35   40   45

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

Lys Gly Arg Tyr Val Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Phe

65 70 75 80

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

Ala Lys Asp Gly Ile Leu Gly Ala Arg Arg Gly Leu Tyr Gly Ile Asp
100 105 110

Val Trp Gly Gln Gly Thr Arg Val Thr Val Ser Ser
115 120

<210> 1440
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1440
Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Thr Ile Thr Cys Gly Gly Asn Asn Ile Gly Gly Lys Ser Val
20 25 30

His Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Ile Ile Ser
35 40 45

Asp Asp Asn Asp Arg Pro Ser Gly Ile Pro Glu Arg Val 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 Thr Thr Ser Asp Gln
85 90 95

Leu Val Phe Gly Gly Gly Thr Met Leu Thr Val Leu
100 105

<210> 1441
<211> 108

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 1441
Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ala Val Ala Pro Gly Gln
1 5 10 15

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

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

Asp Asp Thr Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val 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
100 105

<210> 1442
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 1442
Gln Val Gln Leu Met Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Val Ser Gly Phe Ser Phe Ser Asp Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

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        35                  40                  45

Ala Leu Ile Trp Arg Asp Gly Ser Asn Ser His Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Leu Ser Ser Leu Gly Val Thr Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Arg Glu Ala Arg Val Ala Ala Pro Ala Ser Tyr Asp Tyr Trp Gly
            100                 105                 110

Gln Gly Ala Leu Val Thr Val Ser Ser
        115                 120


<210> 1443
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 1443
Gln Leu Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Lys
1               5                   10                  15

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

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

Ala Leu Ile Trp His Asp Gly Ser Asn Lys Lys Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Leu Tyr Tyr Cys
                85                  90                  95
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Ala Arg Glu Gly Ala Ile Ala Ala Pro Ala Ser Leu Asp Val Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1444
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1444
Ser Tyr Val Leu Thr Gln Thr Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Lys Ile Val Asn Lys Asn Val
20 25 30

His Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Leu Val Leu Tyr
35 40 45

Asp Asp Asp Asp Arg Pro Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
50 55 60

Asn Ser Trp Asn Ala 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 Asn Gly Ser Asn His
85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Val
100 105

<210> 1445
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

polypeptide

<220>
<221> MOD_RES
<222> (38)..(39)
<223> Any amino acid

<400> 1445
Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Ile Arg Ser Arg Asn Val
20 25 30

His Trp Tyr Gln Gln Xaa Xaa Gly Gln Thr Pro Leu Leu Val Val Tyr
35 40 45

Ala Asp Ser Ala Arg Pro Ser Gly Ile Pro Asp 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 Gly Thr Asp His
85 90 95

Val Ile Phe Gly Gly Gly Thr Glu Leu Thr Val Leu
100 105

<210> 1446
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 1446
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr 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 Lys Asp Pro Ile Tyr Ser Ser Ser Trp Pro Tyr Tyr Phe Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1447
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1447
Glu Met Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Glu Val Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

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

Ser Ala Leu Thr Ala Thr Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn Ala Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Phe Cys

85 90 95

Ala Lys Asp Ala Ile Arg Asn Ser Asn His Ala Trp Tyr Phe Asp Val
100 105 110

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 1448
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1448
Glu Met Gln Leu Val Glu Ser Gly Gly Gly Leu Ala His Pro Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Gly Ser Gly Phe Arg Phe Asn Asn Tyr
20 25 30

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

Ser Gly Phe Ser Gly Ser Gly Ser Asn Ile Phe Tyr Ala Asp Ser Val
50 55 60

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

Leu Asp Met Arg Gly Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Asp Gly Tyr Phe Gly Ser Gly Ser Leu Tyr Gly Ile Asp Val
100 105 110

Trp Gly Gln Gly Thr Thr Val Ile Val Ser Ser
115 120

<210> 1449
<211> 110

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 1449
Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

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

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

Glu 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 Ala 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 Glu Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 1450
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 1450
Ser Tyr Met Leu Thr Gln Ala Pro Ser Val Ser Val Ala Pro Gly His
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 Val Tyr

35 40 45

Asp Asp Asn Glu 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 Val Gly
65 70 75 80

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

Val Phe Gly Gly Gly Thr Ile Leu Ser Val Leu
100 105

<210> 1451
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1451
Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Ile Gly Ser Lys Ser Val
20 25 30

Tyr Trp His Gln Gln Lys Ser Gly Gln Ala Pro Val Val Val Val Ser
35 40 45

Glu Asp Ser Ala 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 Val Gly
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Asn His Asp His
85 90 95

Pro Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 1452
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1452
Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly
1 5 10 15

<210> 1453
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1453
Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys
1 5 10 15

<210> 1454
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1454
Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro
1 5 10 15

<210> 1455
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1455
Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala

1 5 10 15

<210> 1456
<211> 72
<212> PRT
<213> Hepatitis B virus

<400> 1456
Gln Gly Met Leu Pro Val Cys Pro Leu Ile Pro Gly Ser Thr Thr Thr
1 5 10 15

Ser Thr Gly Pro Cys Lys Thr Cys Thr Thr Pro Ala Gln Gly Asn Ser
20 25 30

Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Thr Asp Gly Asn Cys Thr
35 40 45

Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Lys Tyr Leu Trp Glu
50 55 60

Trp Ala Ser Val Arg Phe Ser Trp
65 70

<210> 1457
<211> 72
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Ile or Ala

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Pro or Ala

<220>
<221> MOD_RES
<222> (23)..(23)
<223> Thr or Ala

<220>

<221> MOD_RES
<222> (41)..(41)
<223> Lys or Ala

<220>
<221> MOD_RES
<222> (42)..(42)
<223> Pro or Ala

<220>
<221> MOD_RES
<222> (43)..(43)
<223> Thr or Ala

<220>
<221> MOD_RES
<222> (44)..(44)
<223> Asp or Ala

<220>
<221> MOD_RES
<222> (45)..(45)
<223> Gly or Ala

<220>
<221> MOD_RES
<222> (48)..(48)
<223> Thr or Ala

<220>
<223> See specification as filed for detailed description of
substitutions and preferred embodiments

<400> 1457
Gln Gly Met Leu Pro Val Cys Pro Leu Xaa Pro Gly Ser Thr Thr Thr
1 5 10 15

Ser Thr Gly Xaa Cys Lys Xaa Cys Thr Thr Pro Ala Gln Gly Asn Ser
20 25 30

Met Phe Pro Ser Cys Cys Cys Thr Xaa Xaa Xaa Xaa Xaa Asn Cys Xaa
35 40 45

Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Lys Tyr Leu Trp Glu
50 55 60

Trp Ala Ser Val Arg Phe Ser Trp
65 70

<210> 1458

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

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 1458
Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu
1 5 10 15

Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile
20 25 30

Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
35 40 45

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

Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser
65 70 75 80

Leu Leu Val

<210> 1459
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1459
Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
1 5 10 15

<210> 1460
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1460
Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr
1 5 10 15

<210> 1461
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1461
Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser
1 5 10 15

<210> 1462
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1462
Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys
1 5 10 15

<210> 1463
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1463
Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr
1 5 10 15

<210> 1464
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 1464
Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln
1 5 10 15

<210> 1465
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1465
Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln Gly Thr Ser Met
1 5 10 15

<210> 1466
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1466
Thr Cys Thr Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys
1 5 10 15

<210> 1467
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1467
Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys
1 5 10 15

<210> 1468
<211> 15
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1468
Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly
1 5 10 15

<210> 1469
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1469
Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys
1 5 10 15

<210> 1470
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1470
Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro
1 5 10 15

<210> 1471
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1471
Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala
1 5 10 15

<210> 1472
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1472
Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe
1 5 10 15

<210> 1473
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1473
Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp
1 5 10 15

<210> 1474
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1474
Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg
1 5 10 15

<210> 1475
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1475
Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu
1 5 10 15

<210> 1476
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1476
Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val
1 5 10 15

<210> 1477
<211> 24
<212> PRT
<213> Hepatitis B virus

<400> 1477
Lys Thr Cys Thr Thr Pro Ala Gln Gly Thr Ser Thr Phe Pro Ser Cys
1 5 10 15

Cys Cys Thr Lys Pro Ser Asp Gly
20

<210> 1478
<211> 72
<212> DNA
<213> Hepatitis B virus

<400> 1478
aagacctgca cgactcctgc tcaagggacc tctacgtttc cctcttgttg ctgtacaaaa 60

ccttcggacg ga 72

<210> 1479
<211> 24
<212> PRT
<213> Hepatitis B virus

<400> 1479
Lys Thr Cys Thr Thr Pro Ala Gln Gly Thr Ser Thr Phe Pro Ser Cys
1 5 10 15

Cys Cys Thr Lys Pro Ser Asp Arg
20

<210> 1480
<211> 72
<212> DNA
<213> Hepatitis B virus

<400> 1480

aagacctgca cgactcctgc tcaagggacc tctacgtttc cctcttgttg ctgtacaaaa 60

ccttcggaca ga 72

<210> 1481
<211> 24
<212> PRT
<213> Hepatitis B virus

<400> 1481
Lys Thr Cys Thr Thr Pro Ala Gln Gly Thr Ser Thr Phe Pro Ser Cys
1 5 10 15

Cys Cys Thr Lys Pro Ser Asp Glu
20

<210> 1482
<211> 72
<212> DNA
<213> Hepatitis B virus

<400> 1482
aagacctgca cgactcctgc tcaagggacc tctacgtttc cctcttgttg ctgtacaaaa 60

ccttcggacg aa 72

<210> 1483
<211> 24
<212> PRT
<213> Hepatitis B virus

<400> 1483
Arg Thr Cys Thr Thr Pro Ala Gln Gly Thr Ser Thr Phe Pro Ser Cys
1 5 10 15

Cys Cys Thr Lys Pro Ser Asp Arg
20

<210> 1484
<211> 72
<212> DNA
<213> Hepatitis B virus

<400> 1484
aggacctgca cgactcctgc tcaagggacc tctacgtttc cctcttgttg ctgtacaaaa 60

ccttcggaca ga 72

<210> 1485
<211> 24
<212> PRT
<213> Hepatitis B virus

<400> 1485
Lys Thr Cys Thr Thr Pro Ala Gln Gly Thr Ser Thr Phe Pro Ser Tyr
1   5   10   15

Cys Cys Thr Lys Pro Ser Asp Gly
            20

<210> 1486
<211> 72
<212> DNA
<213> Hepatitis B virus

<400> 1486
aagacctgca cgactcctgc tcaagggacc tctacgtttc cctcttattg ctgtacaaaa   60

ccttcggacg ga   72

<210> 1487
<211> 24
<212> PRT
<213> Hepatitis B virus

<400> 1487
Lys Thr Cys Thr Thr Pro Ala Gln Gly Thr Ser Thr Phe Pro Ser Tyr
1   5   10   15

Cys Cys Thr Lys Pro Ser Val Gly
            20

<210> 1488
<211> 72
<212> DNA
<213> Hepatitis B virus

<400> 1488
aagacctgca cgactcctgc tcaagggacc tctacgtttc cctcttattg ctgtacaaaa   60

ccttcggtcg ga   72