SEQUENCE LISTING

<110> GENERATION BIO INC.

<120> CLOSED-ENDED DNA (CEDNA) VECTORS OBTAINABLE FROM CELL-FREE SYNTHESIS AND PROCESS FOR OBTAINING CEDNA VECTORS

<130> 080170-091310-WOPT

<140>
<141>

<150> 62/619,392
<151> 2018-01-19

<160> 187

<170> PatentIn version 3.5

<210> 1
<211> 141
<212> DNA
<213> Artificial Sequence

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

<400> 1
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgcccgg gctttgcccg ggcggcctca gtgagcgagc 120

gagcgcgcag ctgcctgcag g 141

<210> 2
<211> 141
<212> DNA
<213> Artificial Sequence

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

<400> 2
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgggcaaag cccgggcgtc 60

gggcgacctt tggtcgcccg gcctcagtga gcgagcgagc gcgcagagag ggagtggcca 120

actccatcac taggggttcc t 141

<210> 3
<211> 130
<212> DNA
<213> Artificial Sequence

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

<400> 3
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgcccgg gcggcctcag tgagcgagcg agcgcgcagc 120

tgcctgcagg 130

<210> 4
<211> 130
<212> DNA
<213> Artificial Sequence

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

<400> 4
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgggcgtcg ggcgaccttt 60

ggtcgcccgg cctcagtgag cgagcgagcg cgcagagagg gagtggccaa ctccatcact 120

aggggttcct 130

<210> 5
<211> 143
<212> DNA
<213> Artificial Sequence

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

<400> 5
ttgcccactc cctctctgcg cgctcgctcg ctcggtgggg cctgcggacc aaaggtccgc 60

agacggcaga ggtctcctct gccggcccca ccgagcgagc gacgcgcgca gagagggagt 120

gggcaactcc atcactaggg taa 143

<210> 6
<211> 144
<212> DNA
<213> Artificial Sequence

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

<400> 6
ttggccactc cctctatgcg cactcgctcg ctcggtgggg cctggcgacc aaaggtcgcc 60

agacggacgt gggtttccac gtccggcccc accgagcgag cgagtgcgca tagagggagt 120

ggccaactcc atcactagag gtat 144

<210> 7
<211> 127
<212> DNA
<213> Artificial Sequence

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

<400> 7
ttggccactc cctctatgcg cgctcgctca ctcactcggc cctggagacc aaaggtctcc 60

agactgccgg cctctggccg gcagggccga gtgagtgagc gagcgcgcat agagggagtg 120

gccaact 127

<210> 8
<211> 166
<212> DNA
<213> Artificial Sequence

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

<400> 8
tccccccctgt cgcgttcgct cgctcgctgg ctcgtttggg ggggcgacgg ccagagggcc 60

gtcgtctggc agctctttga gctgccaccc ccccaaacga gccagcgagc gagcgaacgc 120

gacaggggggg agagtgccac actctcaagc aaggggggttt tgtaag 166

<210> 9
<211> 144
<212> DNA
<213> Artificial Sequence

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

<400> 9
ttgcccactc cctctaatgc gcgctcgctc gctcggtggg gcctgcggac caaaggtccg 60

cagacggcag aggtctcctc tgccggcccc accgagcgag cgagcgcgca tagagggagt 120

gggcaactcc atcactaggg gtat 144

<210> 10
<211> 143
<212> DNA
<213> Artificial Sequence

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

<400> 10
ttaccctagt gatggagttg cccactccct ctctgcgcgc gtcgctcgct cggtggggcc 60

ggcagaggag acctctgccg tctgcggacc tttggtccgc aggccccacc gagcgagcga 120

gcgcgcagag agggagtggg caa 143

<210> 11
<211> 144
<212> DNA
<213> Artificial Sequence

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

<400> 11
atacctctag tgatggagtt ggccactccc tctatgcgca ctcgctcgct cggtggggcc 60

ggacgtggaa acccacgtcc gtctggcgac ctttggtcgc caggccccac cgagcgagcg 120

agtgcgcata gagggagtgg ccaa 144

<210> 12
<211> 127
<212> DNA
<213> Artificial Sequence

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

<400> 12
agttggccac attagctatg cgcgctcgct cactcactcg gccctggaga ccaaaggtct 60

ccagactgcc ggcctctggc cggcagggcc gagtgagtga gcgagcgcgc atagagggag 120

tggccaa 127

<210> 13
<211> 166
<212> DNA
<213> Artificial Sequence

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

<400> 13
cttacaaaac ccccttgctt gagagtgtgg cactctcccc cctgtcgcgt tcgctcgctc 60

gctggctcgt ttgggggggt ggcagctcaa agagctgcca gacgacggcc ctctggccgt 120

cgccccccca aacgagccag cgagcgagcg aacgcgacag ggggga 166

<210> 14
<211> 144
<212> DNA
<213> Artificial Sequence

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

<400> 14

ataccctag tgatggagtt gcccactccc tctatgcgcg ctcgctcgct cggtggggcc 60

ggcagaggag acctctgccg tctgcggacc tttggtccgc aggccccacc gagcgagcga 120

gcgcgcatta gagggagtgg gcaa 144

<210> 15
<211> 120
<212> DNA
<213> Artificial Sequence

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

<400> 15
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

cgcacgcccg ggtttcccgg gcggcctcag tgagcgagcg agcgcgcagc tgcctgcagg 120

<210> 16
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 16
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgacgcccg ggctttgccc gggcggcctc agtgagcgag cgagcgcgca gctgcctgca 120

gg 122

<210> 17
<211> 129
<212> DNA
<213> Artificial Sequence

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

<400> 17
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgcccgg gcgcctcagt gagcgagcga gcgcgcagct 120

gcctgcagg 129

<210> 18
<211> 101
<212> DNA
<213> Artificial Sequence

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

<400> 18
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ctttgcctca gtgagcgagc gagcgcgcag ctgcctgcag g 101

<210> 19
<211> 139
<212> DNA
<213> Artificial Sequence

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

<400> 19
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgaca aagtcgcccg acgcccgggc tttgcccggg cggcctcagt gagcgagcga 120

gcgcgcagct gcctgcagg 139

<210> 20
<211> 137
<212> DNA
<213> Artificial Sequence

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

<400> 20
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgaaa atcgcccgac gcccgggctt tgcccgggcg gcctcagtga gcgagcgagc 120

gcgcagctgc ctgcagg 137

<210> 21
<211> 135
<212> DNA
<213> Artificial Sequence

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

<400> 21
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgaaa cgcccgacgc ccgggctttg cccgggcggc ctcagtgagc gagcgagcgc 120

gcagctgcct gcagg 135

<210> 22
<211> 133
<212> DNA
<213> Artificial Sequence

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

<400> 22
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcaaag cccgacgccc gggctttgcc cgggcggcct cagtgagcga gcgagcgcgc 120

agctgcctgc agg 133

<210> 23
<211> 139
<212> DNA
<213> Artificial Sequence

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

<400> 23
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgcccgg gtttcccggg cggcctcagt gagcgagcga 120

gcgcgcagct gcctgcagg 139

<210> 24
<211> 137
<212> DNA
<213> Artificial Sequence

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

<400> 24
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgcccgg tttccgggcg gcctcagtga gcgagcgagc 120

gcgcagctgc ctgcagg 137

<210> 25
<211> 135
<212> DNA
<213> Artificial Sequence

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

<400> 25
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgcccgt ttcgggcggc ctcagtgagc gagcgagcgc 120

gcagctgcct gcagg 135

<210> 26
<211> 133
<212> DNA
<213> Artificial Sequence

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

<400> 26

aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgccctt tgggcggcct cagtgagcga gcgagcgcgc 120

agctgcctgc agg 133

<210> 27
<211> 131
<212> DNA
<213> Artificial Sequence

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

<400> 27
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgccttt ggcggcctca gtgagcgagc gagcgcgcag 120

ctgcctgcag g 131

<210> 28
<211> 129
<212> DNA
<213> Artificial Sequence

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

<400> 28
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgctttg cggcctcagt gagcgagcga gcgcgcagct 120

gcctgcagg 129

<210> 29
<211> 127
<212> DNA
<213> Artificial Sequence

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

<400> 29
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgtttcg gcctcagtga gcgagcgagc gcgcagctgc 120

ctgcagg 127

<210> 30
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 30
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacggcctc agtgagcgag cgagcgcgca gctgcctgca 120

gg 122

<210> 31
<211> 130
<212> DNA
<213> Artificial Sequence

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

<400> 31
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgcccgg gcggcctcag tgagcgagcg agcgcgcagc 120

tgcctgcagg 130

<210> 32
<211> 120
<212> DNA
<213> Artificial Sequence

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

<400> 32
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgggaaacc cgggcgtgcg 60

cctcagtgag cgagcgagcg cgcagagagg gagtggccaa ctccatcact aggggttcct 120

<210> 33
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 33
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgt cgggcgacct ttggtcgccc 60

ggcctcagtg agcgagcgag cgcgcagaga gggagtggcc aactccatca ctaggggttc 120

ct 122

<210> 34
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 34
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgggcaaag cccgggcgtc 60

ggcctcagtg agcgagcgag cgcgcagaga gggagtggcc aactccatca ctaggggttc 120

ct 122

<210> 35
<211> 129
<212> DNA
<213> Artificial Sequence

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

<400> 35
cctgcaggca gctgcgcgct cgctcgctca ctgaggcgcc cgggcgtcgg gcgacctttg 60

gtcgcccggc ctcagtgagc gagcgagcgc gcagagaggg agtggccaac tccatcacta 120

ggggttcct 129

<210> 36
<211> 101
<212> DNA
<213> Artificial Sequence

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

<400> 36
cctgcaggca gctgcgcgct cgctcgctca ctgaggcaaa gcctcagtga gcgagcgagc 60

gcgcagagag ggagtggcca actccatcac taggggttcc t 101

<210> 37
<211> 139
<212> DNA
<213> Artificial Sequence

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

<400> 37
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgggcaaag cccgggcgtc 60

gggcgacttt gtcgcccggc ctcagtgagc gagcgagcgc gcagagaggg agtggccaac 120

tccatcacta ggggttcct 139

<210> 38
<211> 137
<212> DNA
<213> Artificial Sequence

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

<400> 38

cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgggcaaag cccgggcgtc 60

gggcgatttt cgcccggcct cagtgagcga gcgagcgcgc agagagggag tggccaactc 120

catcactagg ggttcct 137

<210> 39
<211> 135
<212> DNA
<213> Artificial Sequence

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

<400> 39
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgggcaaag cccgggcgtc 60

gggcgtttcg cccggcctca gtgagcgagc gagcgcgcag agagggagtg gccaactcca 120

tcactagggg ttcct 135

<210> 40
<211> 133
<212> DNA
<213> Artificial Sequence

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

<400> 40
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgggcaaag cccgggcgtc 60

gggctttgcc cggcctcagt gagcgagcga gcgcgcagag agggagtggc caactccatc 120

actaggggtt cct 133

<210> 41
<211> 139
<212> DNA
<213> Artificial Sequence

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

<400> 41
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgggaaacc cgggcgtcgg 60

gcgacctttg gtcgcccggc ctcagtgagc gagcgagcgc gcagagaggg agtggccaac 120

tccatcacta ggggttcct 139

<210> 42
<211> 137
<212> DNA
<213> Artificial Sequence

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

<400> 42
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccggaaaccg ggcgtcgggc 60

gacctttggt cgcccggcct cagtgagcga gcgagcgcgc agagagggag tggccaactc 120

catcactagg ggttcct 137

<210> 43
<211> 135
<212> DNA
<213> Artificial Sequence

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

<400> 43
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgaaacggg cgtcgggcga 60

cctttggtcg cccggcctca gtgagcgagc gagcgcgcag agagggagtg gccaactcca 120

tcactagggg ttcct 135

<210> 44
<211> 133
<212> DNA
<213> Artificial Sequence

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

<400> 44
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccaaagggcg tcgggcgacc 60

tttggtcgcc cggcctcagt gagcgagcga gcgcgcagag agggagtggc caactccatc 120

actaggggtt cct 133

<210> 45
<211> 131
<212> DNA
<213> Artificial Sequence

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

<400> 45
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc caaaggcgtc gggcgacctt 60

tggtcgcccg gcctcagtga gcgagcgagc gcgcagagag ggagtggcca actccatcac 120

taggggttcc t 131

<210> 46
<211> 129
<212> DNA
<213> Artificial Sequence

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

<400> 46
cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc aaagcgtcgg gcgacctttg 60

gtcgcccggc ctcagtgagc gagcgagcgc gcagagaggg agtggccaac tccatcacta 120

ggggttcct 129

<210> 47
<211> 127
<212> DNA
<213> Artificial Sequence

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

polynucleotide

<400> 47
cctgcaggca gctgcgcgct cgctcgctca ctgaggccga aacgtcgggc gacctttggt 60

cgcccggcct cagtgagcga gcgagcgcgc agagagggag tggccaactc catcactagg 120

ggttcct 127

<210> 48
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 48
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacggcctc agtgagcgag cgagcgcgca gctgcctgca 120

gg 122

<210> 49
<211> 12
<212> DNA
<213> Artificial Sequence

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

<400> 49
cgatcgttcg at 12

<210> 50
<211> 12
<212> DNA
<213> Artificial Sequence

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

<400> 50

atcgaaccat cg 12

<210> 51
<211> 12
<212> DNA
<213> Artificial Sequence

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

<400> 51
atcgaacgat cg 12

<210> 52
<211> 165
<212> DNA
<213> Artificial Sequence

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

<400> 52
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgcccgggc aaagcccggg cgtcgggcga cctttggtcg cccggcctca gtgagcgagc 120

gagcgcgcag agagggagtg gccaactcca tcactagggg ttcct 165

<210> 53
<211> 140
<212> DNA
<213> Artificial Sequence

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

<400> 53
cccctagtga tggagttggc cactccctct ctgcgcgctc gctcgctcac tgaggccgcc 60

cgggcaaagc ccgggcgtcg ggcgaccttt ggtcgcccgg cctcagtgag cgagcgagcg 120

cgcagagaga tcactagggg 140

<210> 54
<211> 91
<212> DNA
<213> Artificial Sequence

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

<400> 54
gcgcgctcgc tcgctcactg aggccgcccg ggcaaagccc gggcgtcggg cgacctttgg 60

tcgcccggcc tcagtgagcg agcgagcgcg c 91

<210> 55
<211> 91
<212> DNA
<213> Artificial Sequence

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

<400> 55
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgcc cgggctttgc 60

ccgggcggcc tcagtgagcg agcgagcgcg c 91

<210> 56

<400> 56
000

<210> 57

<400> 57
000

<210> 58

<400> 58
000

<210> 59

<400> 59
000

<210> 60
<211> 16
<212> DNA
<213> Artificial Sequence

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

<400> 60
gcgcgctcgc tcgctc 16

<210> 61
<211> 6
<212> DNA
<213> Artificial Sequence

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

<400> 61
ggttga 6

<210> 62
<211> 4
<212> DNA
<213> Artificial Sequence

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

<400> 62
agtt 4

<210> 63
<211> 6
<212> DNA
<213> Artificial Sequence

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

oligonucleotide

<400> 63
ggttgg 6

<210> 64
<211> 6
<212> DNA
<213> Artificial Sequence

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

<400> 64
agttgg 6

<210> 65
<211> 6
<212> DNA
<213> Artificial Sequence

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

<400> 65
agttga 6

<210> 66
<211> 6
<212> DNA
<213> Artificial Sequence

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

<400> 66
rrttrr 6

<210> 67
<211> 581
<212> DNA
<213> Artificial Sequence

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

<400> 67
gagcatctta ccgccattta ttcccatatt tgttctgttt ttcttgattt gggtatacat 60

ttaaatgtta ataaaacaaa atggtggggc aatcatttac atttttaggg atatgtaatt 120

actagttcag gtgtattgcc acaagacaaa catgttaaga aactttcccg ttatttacgc 180

tctgttcctg ttaatcaacc tctggattac aaaatttgtg aaagattgac tgatattctt 240

aactatgttg ctccttttac gctgtgtgga tatgctgctt tatagcctct gtatctagct 300

attgcttccc gtacggcttt cgttttctcc tccttgtata aatcctggtt gctgtctctt 360

ttagaggagt tgtggcccgt tgtccgtcaa cgtggcgtgg tgtgctctgt gtttgctgac 420

gcaaccccca ctggctgggg cattgccacc acctgtcaac tcctttctgg gactttcgct 480

ttccccctcc cgatcgccac ggcagaactc atcgccgcct gccttgcccg ctgctggaca 540

ggggctaggt tgctgggcac tgataattcc gtggtgttgt c 581

<210> 68
<211> 225
<212> DNA
<213> Artificial Sequence

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

<400> 68
tgtgccttct agttgccagc catctgttgt ttgcccctcc cccgtgcctt ccttgaccct 60

ggaaggtgcc actcccactg tcctttccta ataaaatgag gaaattgcat cgcattgtct 120

gagtaggtgt cattctattc tgggggggtgg ggtggggcag gacagcaagg gggaggattg 180

ggaagacaat agcaggcatg ctggggatgc ggtgggctct atggc 225

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

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

<400> 69
actgaggc 8

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

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

<400> 70
gcctcagt 8

<210> 71
<211> 16
<212> DNA
<213> Artificial Sequence

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

<400> 71
gagcgagcga gcgcgc 16

<210> 72
<211> 1923
<212> DNA
<213> Artificial Sequence

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

<400> 72
tcaatattgg ccattagcca tattattcat tggttatata gcataaatca atattggcta 60

ttggccattg catacgttgt atctatatca taatatgtac atttatattg gctcatgtcc 120

aatatgaccg ccatgttggc attgattatt gactagttat taatagtaat caattacggg 180

gtcattagtt catagcccat atatggagtt ccgcgttaca taacttacgg taaatggccc 240

gcctggctga ccgcccaacg acccccgccc attgacgtca ataatgacgt atgttcccat 300

agtaacgcca atagggactt tccattgacg tcaatgggtg gagtatttac ggtaaactgc 360

ccacttggca gtacatcaag tgtatcatat gccaagtccg ccccctattg acgtcaatga 420

cggtaaatgg cccgcctggc attatgccca gtacatgacc ttacgggact ttcctacttg 480

gcagtacatc tacgtattag tcatcgctat taccatggtc gaggtgagcc ccacgttctg 540

cttcactctc cccatctccc ccccctcccc acccccaatt ttgtatttat ttatttttta 600

attattttgt gcagcgatgg gggcgggggg gggggggggg cgcgcgccag gcggggcggg 660

gcggggcgag gggcggggcg gggcgaggcg gagaggtgcg gcggcagcca atcagagcgg 720

cgcgctccga aagtttcctt ttatggcgag gcggcggcgg cggcggccct ataaaaagcg 780

aagcgcgcgg cgggcgggag tcgctgcgac gctgccttcg ccccgtgccc cgctccgccg 840

ccgcctcgcg ccgcccgccc cggctctgac tgaccgcgtt actcccacag gtgagcgggc 900

gggacggccc ttctcctccg ggctgtaatt agcgcttggt ttaatgacgg cttgtttctt 960

ttctgtggct gcgtgaaagc cttgaggggc tccgggaggg ccctttgtgc gggggggagc 1020

ggctcggggg gtgcgtgcgt gtgtgtgtgc gtggggagcg ccgcgtgcgg cccgcgctgc 1080

ccggcggctg tgagcgctgc gggcgcggcg cggggctttg tgcgctccgc agtgtgcgcg 1140

aggggagcgc ggccgggggc ggtgccccgc ggtgcggggg gggctgcgag gggaacaaag 1200

gctgcgtgcg gggtgtgtgc gtgggggggt gagcaggggg tgtgggcgcg gcggtcgggc 1260

tgtaaccccc ccctgcaccc ccctccccga gttgctgagc acggcccggc ttcgggtgcg 1320

gggctccgta cggggcgtgg cgcggggctc gccgtgccgg gcgggggggtg gcggcaggtg 1380

ggggtgccgg gcggggcggg gccgcctcgg gccggggagg gctcgggggа ggggcgcggc 1440

ggcccccgga gcgccggcgg ctgtcgaggc gcggcgagcc gcagccattg ccttttatgg 1500

taatcgtgcg agagggcgca gggacttcct ttgtcccaaa tctgtgcgga gccgaaatct 1560

gggaggcgcc gccgcacccc ctctagcggg cgcggggcga agcggtgcgg cgccggcagg 1620

aaggaaatgg gcggggaggg ccttcgtgcg tcgccgcgcc gccgtcccct tctccctctc 1680

cagcctcggg gctgtccgcg gggggacggc tgccttcggg ggggacgggg cagggcgggg 1740

ttcggcttct ggcgtgtgac cggcggctct agagcctctg ctaaccatgt tttagccttc 1800

ttctttttcc tacagctcct gggcaacgtg ctggttattg tgctgtctca tcatttgtcg 1860

acagaattcc tcgaagatcc gaaggggttc aagcttggca ttccggtact gttggtaaag 1920

cca 1923

<210> 73
<211> 1272
<212> DNA
<213> Artificial Sequence

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

<400> 73
aggctcagag gcacacagga gtttctgggc tcaccctgcc cccttccaac ccctcagttc 60

ccatcctcca gcagctgttt gtgtgctgcc tctgaagtcc acactgaaca aacttcagcc 120

tactcatgtc cctaaaatgg gcaaacattg caagcagcaa acagcaaaca cacagccctc 180

cctgcctgct gaccttggag ctggggcaga ggtcagagac ctctctgggc ccatgccacc 240

tccaacatcc actcgacccc ttggaatttc ggtggagagg agcagaggtt gtcctggcgt 300

ggtttaggta gtgtgagagg gtccgggttc aaaaccactt gctgggtggg gagtcgtcag 360

taagtggcta tgccccgacc ccgaagcctg tttccccatc tgtacaatgg aaatgataaa 420

gacgcccatc tgatagggtt tttgtggcaa ataaacattt ggtttttttg ttttgttttg 480

ttttgttttt tgagatggag gtttgctctg tcgcccaggc tggagtgcag tgacacaatc 540

tcatctcacc acaaccttcc cctgcctcag cctcccaagt agctgggatt acaagcatgt 600

gccaccacac ctggctaatt ttctattttt agtagagacg ggtttctcca tgttggtcag 660

cctcagcctc ccaagtaact gggattacag gcctgtgcca ccacacccgg ctaatttttt 720

ctatttttga cagggacggg gtttcaccat gttggtcagg ctggtctaga ggtaccggat 780

cttgctacca gtggaacagc cactaaggat tctgcagtga gagcagaggg ccagctaagt 840

ggtactctcc cagagactgt ctgactcacg ccacccccctc caccttggac acaggacgct 900

gtggtttctg agccaggtac aatgactcct ttcggtaagt gcagtggaag ctgtacactg 960

cccaggcaaa gcgtccgggc agcgtaggcg ggcgactcag atcccagcca gtggacttag 1020

cccctgtttg ctcctccgat aactggggtg accttggtta atattcacca gcagcctccc 1080

ccgttgcccc tctggatcca ctgcttaaat acggacgagg acagggccct gtctcctcag 1140

cttcaggcac caccactgac ctgggacagt gaatccggac tctaaggtaa atataaaatt 1200

tttaagtgta taatgtgtta aactactgat tctaattgtt tctctctttt agattccaac 1260

ctttggaact ga 1272

<210> 74
<211> 1177
<212> DNA
<213> Artificial Sequence

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

<400> 74
ggctcagagg ctcagaggca cacaggagtt tctgggctca ccctgccccc ttccaacccc 60

tcagttccca tcctccagca gctgtttgtg tgctgcctct gaagtccaca ctgaacaaac 120

ttcagcctac tcatgtccct aaaatgggca aacattgcaa gcagcaaaca gcaaacacac 180

agccctccct gcctgctgac cttggagctg gggcagaggt cagagacctc tctgggccca 240

tgccacctcc aacatccact cgacccctg gaatttcggt ggagaggagc agaggttgtc 300

ctggcgtggt ttaggtagtg tgagagggtc cgggttcaaa accacttgct gggtggggag 360

tcgtcagtaa gtggctatgc cccgaccccg aagcctgttt ccccatctgt acaatggaaa 420

tgataaagac gcccatctga tagggttttt gtggcaaata aacatttggt ttttttgttt 480

tgttttgttt tgttttttga gatggaggtt tgctctgtcg cccaggctgg agtgcagtga 540

cacaatctca tctcaccaca accttcccct gcctcagcct cccaagtagc tgggattaca 600

agcatgtgcc accacacctg gctaattttc tatttttagt agagacgggt ttctccatgt 660

tggtcagcct cagcctccca agtaactggg attacaggcc tgtgccacca cacccggcta 720

attttttcta tttttgacag ggacggggtt tcaccatgtt ggtcaggctg gtctagaggt 780

accggatctt gctaccagtg gaacagccac taaggattct gcagtgagag cagagggcca 840

gctaagtggt actctcccag agactgtctg actcacgcca ccccctccac cttggacaca 900

ggacgctgtg gtttctgagc caggtacaat gactcctttc ggtaagtgca gtggaagctg 960

tacactgccc aggcaaagcg tccgggcagc gtaggcgggc gactcagatc ccagccagtg 1020

gacttagccc ctgtttgctc ctccgataac tggggtgacc ttggttaata ttcaccagca 1080

gcctcccccg ttgcccctct ggatccactg cttaaatacg gacgaggaca gggccctgtc 1140

tcctcagctt caggcaccac cactgacctg ggacagt 1177

<210> 75
<211> 547
<212> DNA
<213> Artificial Sequence

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

<400> 75
ccctaaaatg ggcaaacatt gcaagcagca aacagcaaac acacagccct ccctgcctgc 60

tgaccttgga gctggggcag aggtcagaga cctctctggg cccatgccac ctccaacatc 120

cactcgaccc cttggaattt ttcggtggag aggagcagag gttgtcctgg cgtggtttag 180

gtagtgtgag aggggaatga ctcctttcgg taagtgcagt ggaagctgta cactgcccag 240

gcaaagcgtc cgggcagcgt aggcgggcga ctcagatccc agccagtgga cttagcccct 300

gtttgctcct ccgataactg gggtgacctt ggttaatatt caccagcagc ctcccccgtt 360

gcccctctgg atccactgct taaatacgga cgaggacagg gccctgtctc ctcagcttca 420

ggcaccacca ctgacctggg acagtgaatc cggactctaa ggtaaatata aaatttttaa 480

gtgtataatg tgttaaacta ctgattctaa ttgtttctct cttttagatt ccaacctttg 540

gaactga 547

<210> 76
<211> 556

<212> DNA
<213> Artificial Sequence

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

<400> 76
ccctaaaatg ggcaaacatt gcaagcagca aacagcaaac acacagccct ccctgcctgc 60

tgaccttgga gctggggcag aggtcagaga cctctctggg cccatgccac ctccaacatc 120

cactcgaccc cttggaattt cggtggagag gagcagaggt tgtcctggcg tggtttaggt 180

agtgtgagag gggaatgact cctttcggta agtgcagtgg aagctgtaca ctgcccaggc 240

aaagcgtccg ggcagcgtag gcgggcgact cagatcccag ccagtggact tagcccctgt 300

ttgctcctcc gataactggg gtgaccttgg ttaatattca ccagcagcct cccccgttgc 360

ccctctggat ccactgctta aatacggacg aggacactcg agggccctgt ctcctcagct 420

tcaggcacca ccactgacct gggacagtga atccggacat cgattctaag gtaaatataa 480

aatttttaag tgtataattt gttaaactac tgattctaat tgtttctctc ttttagattc 540

caacctttgg aactga 556

<210> 77
<211> 1179
<212> DNA
<213> Artificial Sequence

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

<400> 77
ggctccggtg cccgtcagtg ggcagagcgc acatcgccca cagtccccga gaagttgggg 60

ggaggggtcg gcaattgaac cggtgcctag agaaggtggc gcggggtaaa ctgggaaagt 120

gatgtcgtgt actggctccg cctttttccc gagggtgggg gagaaccgta tataagtgca 180

gtagtcgccg tgaacgttct ttttcgcaac gggtttgccg ccagaacaca ggtaagtgcc 240

gtgtgtggtt cccgcgggcc tggcctcttt acgggttatg gcccttgcgt gccttgaatt 300

acttccacct ggctgcagta cgtgattctt gatcccgagc ttcgggttgg aagtgggtgg 360

gagagttcga ggccttgcgc ttaaggagcc ccttcgcctc gtgcttgagt tgaggcctgg 420

cctgggcgct ggggccgccg cgtgcgaatc tggtggcacc ttcgcgcctg tctcgctgct 480

ttcgataagt ctctagccat ttaaaatttt tgatgacctg ctgcgacgct ttttttctgg 540

caagatagtc ttgtaaatgc gggccaagat ctgcacactg gtatttcggt ttttggggcc 600

gcgggcggcg acggggcccg tgcgtcccag cgcacatgtt cggcgaggcg gggcctgcga 660

gcgcggccac cgagaatcgg acgggggtag tctcaagctg gccggcctgc tctggtgcct 720

ggtctcgcgc cgccgtgtat cgccccgccc tgggcggcaa ggctggcccg gtcggcacca 780

gttgcgtgag cggaaagatg gccgcttccc ggccctgctg cagggagctc aaaatggagg 840

acgcggcgct cgggagagcg ggcgggtgag tcacccacac aaaggaaaag ggcctttccg 900

tcctcagccg tcgcttcatg tgactccacg gagtaccggg cgccgtccag gcacctcgat 960

tagttctcga gcttttggag tacgtcgtct ttaggttggg gggaggggtt ttatgcgatg 1020

gagtttcccc acactgagtg ggtggagact gaagttaggc cagcttggca cttgatgtaa 1080

ttctccttgg aatttgccct ttttgagttt ggatcttggt tcattctcaa gcctcagaca 1140

gtggttcaaa gtttttttct tccatttcag gtgtcgtga 1179

<210> 78
<211> 141
<212> DNA
<213> Artificial Sequence

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

<400> 78
aataaacgat aacgccgttg gtggcgtgag gcatgtaaaa ggttacatca ttatcttgtt 60

cgccatccgg ttggtataaa tagacgttca tgttggtttt tgtttcagtt gcaagttggc 120

tgcggcgcgc gcagcacctt t 141

<210> 79
<211> 317
<212> DNA

<213> Artificial Sequence

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

<400> 79
ggtgtggaaa gtccccaggc tccccagcag gcagaagtat gcaaagcatg catctcaatt 60

agtcagcaac caggtgtgga aagtccccag gctccccagc aggcagaagt atgcaaagca 120

tgcatctcaa ttagtcagca accatagtcc cgcccctaac tccgcccatc ccgcccctaa 180

ctccgcccag ttccgcccat tctccgcccc atggctgact aatttttttt atttatgcag 240

aggccgaggc cgcctcggcc tctgagctat tccagaagta gtgaggaggc ttttttggag 300

gcctaggctt ttgcaaa 317

<210> 80
<211> 241
<212> DNA
<213> Artificial Sequence

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

<400> 80
gagggcctat ttcccatgat tccttcatat ttgcatatac gatacaaggc tgttagagag 60

ataattggaa ttaatttgac tgtaaacaca aagatattag tacaaaatac gtgacgtaga 120

aagtaataat ttcttgggta gtttgcagtt ttaaaattat gttttaaaat ggactatcat 180

atgcttaccg taacttgaaa gtatttcgat ttcttggctt tatatatctt gtggaaagga 240

c 241

<210> 81
<211> 215
<212> DNA
<213> Artificial Sequence

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

<400> 81
gaacgctgac gtcatcaacc cgctccaagg aatcgcgggc ccagtgtcac taggcgggaa 60

cacccagcgc gcgtgcgccc tggcaggaag atggctgtga gggacagggg agtggcgccc 120

tgcaatattt gcatgtcgct atgtgttctg ggaaatcacc ataaacgtga aatgtctttg 180

gatttgggaa tcgtataaga actgtatgag accac 215

<210> 82
<211> 546
<212> DNA
<213> Artificial Sequence

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

<400> 82
ccctaaaatg ggcaaacatt gcaagcagca aacagcaaac acacagccct ccctgcctgc 60

tgaccttgga gctggggcag aggtcagaga cctctctggg cccatgccac ctccaacatc 120

cactcgaccc cttggaattt ttcggtggag aggagcagag gttgtcctgg cgtggtttag 180

gtagtgtgag aggggaatga ctcctttcgg taagtgcagt ggaagctgta cactgcccag 240

gcaaagcgtc cgggcagcgt aggcgggcga ctcagatccc agccagtgga cttagcccct 300

gtttgctcct ccgataactg gggtgacctt ggttaatatt caccagcagc ctcccccgtt 360

gcccctctgg atccactgct taaatacgga cgaggacagg gccctgtctc ctcagcttca 420

ggcaccacca ctgacctggg acagtgaatc cggactctaa ggtaaatata aaatttttaa 480

gtgtataatg tgttaaacta ctgattctaa ttgtttctct cttttagatt ccaacctttg 540

gaactg 546

<210> 83
<211> 576
<212> DNA
<213> Artificial Sequence

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

<400> 83
tagtaatcaa ttacggggtc attagttcat agcccatata tggagttccg cgttacataa 60

cttacggtaa atggcccgcc tggctgaccg cccaacgacc cccgcccatt gacgtcaata 120

atgacgtatg ttcccatagt aacgccaata gggactttcc attgacgtca atgggtggag 180

tatttacggt aaactgccca cttggcagta catcaagtgt atcatatgcc aagtacgccc 240

cctattgacg tcaatgacgg taaatggccc gcctggcatt atgcccagta catgacctta 300

tgggactttc ctacttggca gtacatctac gtattagtca tcgctattac catggtgatg 360

cggttttggc agtacatcaa tgggcgtgga tagcggtttg actcacgggg atttccaagt 420

ctccacccca ttgacgtcaa tgggagtttg ttttggcacc aaaatcaacg ggactttcca 480

aaatgtcgta acaactccgc cccattgacg caaatgggcg gtaggcgtgt acggtgggag 540

gtctatataa gcagagctgg tttagtgaac cgtcag 576

<210> 84
<211> 150
<212> DNA
<213> Artificial Sequence

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

<400> 84
ataaacgata acgccgttgg tggcgtgagg catgtaaaag gttacatcat tatcttgttc 60

gccatccggt tggtataaat agacgttcat gttggttttt gtttcagttg caagttggct 120

gcggcgcgcg cagcaccttt gcggccatct 150

<210> 85
<211> 1313
<212> DNA
<213> Artificial Sequence

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

<400> 85
ggagccgaga gtaattcata caaaaggagg gatcgccttc gcaaggggag agcccaggga 60

ccgtccctaa attctcacag acccaaatcc ctgtagccgc cccacgacag cgcgaggagc 120

atgcgcccag ggctgagcgc gggtagatca gagcacacaa gctcacagtc cccggcggtg 180

gggggagggg cgcgctgagc gggggccagg gagctggcgc ggggcaaact gggaaagtgg 240

tgtcgtgtgc tggctccgcc ctcttcccga gggtgggggа gaacggtata taagtgcggt 300

agtcgccttg gacgttcttt ttcgcaacgg gtttgccgtc agaacgcagg tgagtggcgg 360

gtgtggcttc cgcgggcccc ggagctggag ccctgctctg agcgggccgg gctgatatgc 420

gagtgtcgtc cgcagggttt agctgtgagc attcccactt cgagtggcgg gcggtgcggg 480

ggtgagagtg cgaggcctag cggcaacccc gtagcctcgc ctcgtgtccg gcttgaggcc 540

tagcgtggtg tccgccgccg cgtgccactc cggccgcact atgcgttttt tgtccttgct 600

gccctcgatt gccttccagc agcatgggct aacaaaggga gggtgtgggg ctcactctta 660

aggagcccat gaagcttacg ttggatagga atggaagggc aggaggggcg actggggccc 720

gcccgccttc ggagcacatg tccgacgcca cctggatggg gcgaggcctg tggctttccg 780

aagcaatcgg gcgtgagttt agcctacctg ggccatgtgg ccctagcact gggcacggtc 840

tggcctggcg gtgccgcgtt cccttgcctc ccaacaaggg tgaggccgtc ccgcccggca 900

ccagttgctt gcgcggaaag atggccgctc ccggggccct gttgcaagga gctcaaaatg 960

gaggacgcgg cagcccggtg gagcgggcgg gtgagtcacc cacacaaagg aagagggcct 1020

tgcccctcgc cggccgctgc ttcctgtgac cccgtggtct atcggccgca tagtcacctc 1080

gggcttctct tgagcaccgc tcgtcgcggc ggggggaggg gatctaatgg cgttggagtt 1140

tgttcacatt tggtgggtgg agactagtca ggccagcctg gcgctggaag tcattcttgg 1200

aatttgcccc tttgagtttg gagcgaggct aattctcaag cctcttagcg gttcaaaggt 1260

attttctaaa cccgtttcca ggtgttgtga aagccaccgc taattcaaag caa 1313

<210> 86
<211> 213
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 86
taagatacat tgatgagttt ggacaaacca caactagaat gcagtgaaaa aaatgcttta 60

tttgtgaaat ttgtgatgct attgctttat ttgtaaccat tataagctgc aataaacaag 120

ttaacaacaa caattgcatt cattttatgt ttcaggttca gggggaggtg tgggaggttt 180

tttaaagcaa gtaaaacctc tacaaatgtg gta 213

<210> 87
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 87
Pro Lys Lys Lys Arg Lys Val
1 5

<210> 88
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 88
Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Gly
1 5 10 15

Ala His Ser

<210> 89
<211> 19
<212> PRT
<213> Artificial Sequence

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

<400> 89
Met Leu Pro Ser Gln Leu Ile Gly Phe Leu Leu Leu Trp Val Pro Ala
1 5 10 15

Ser Arg Gly

<210> 90
<211> 7
<212> PRT
<213> Simian virus 40

<400> 90
Pro Lys Lys Lys Arg Lys Val
1 5

<210> 91
<211> 21
<212> DNA
<213> Simian virus 40

<400> 91
cccaagaaga agaggaaggt g 21

<210> 92
<211> 16
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
Nucleoplasmin bipartite NLS sequence

<400> 92
Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly Gln Ala Lys Lys Lys Lys
1 5 10 15

<210> 93
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
C-myc NLS sequence

<400> 93
Pro Ala Ala Lys Arg Val Lys Leu Asp
1 5

<210> 94
<211> 11
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
C-myc NLS sequence

<400> 94
Arg Gln Arg Arg Asn Glu Leu Lys Arg Ser Pro
1 5 10

<210> 95
<211> 38
<212> PRT
<213> Homo sapiens

<400> 95
Asn Gln Ser Ser Asn Phe Gly Pro Met Lys Gly Gly Asn Phe Gly Gly
1 5 10 15

Arg Ser Ser Gly Pro Tyr Gly Gly Gly Gly Gln Tyr Phe Ala Lys Pro
20 25 30

Arg Asn Gln Gly Gly Tyr
35

<210> 96
<211> 42
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
IBB domain from importin-alpha sequence

<400> 96
Arg Met Arg Ile Glx Phe Lys Asn Lys Gly Lys Asp Thr Ala Glu Leu
1   5   10   15

Arg Arg Arg Arg Val Glu Val Ser Val Glu Leu Arg Lys Ala Lys Lys
            20   25   30

Asp Glu Gln Ile Leu Lys Arg Arg Asn Val
        35   40

<210> 97
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Myoma T protein sequence

<400> 97
Val Ser Arg Lys Arg Pro Arg Pro
1   5

<210> 98
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
      Myoma T protein sequence

<400> 98
Pro Pro Lys Lys Ala Arg Glu Asp
1   5

<210> 99
<211> 8
<212> PRT
<213> Homo sapiens

<400> 99
Pro Gln Pro Lys Lys Lys Pro Leu
1   5

<210> 100
<211> 12
<212> PRT
<213> Mus musculus

<400> 100
Ser Ala Leu Ile Lys Lys Lys Lys Lys Met Ala Pro
1   5   10

<210> 101
<211> 70
<212> DNA
<213> Artificial Sequence

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

<400> 101
gcgcgctcgc tcgctcactg aggccgcccg ggaaacccgg gcgtgcgcct cagtgagcga   60

gcgagcgcgc   70

<210> 102
<211> 70
<212> DNA
<213> Artificial Sequence

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

<400> 102
gcgcgctcgc tcgctcactg aggcgcacgc ccgggtttcc cgggcggcct cagtgagcga   60

gcgagcgcgc   70

<210> 103
<211> 72
<212> DNA
<213> Artificial Sequence

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

<400> 103
gcgcgctcgc tcgctcactg aggccgtcgg gcgacctttg gtcgcccggc ctcagtgagc 60

gagcgagcgc gc 72

<210> 104
<211> 72
<212> DNA
<213> Artificial Sequence

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

<400> 104
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacggc ctcagtgagc 60

gagcgagcgc gc 72

<210> 105
<211> 72
<212> DNA
<213> Artificial Sequence

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

<400> 105
gcgcgctcgc tcgctcactg aggccgcccg ggcaaagccc gggcgtcggc ctcagtgagc 60

gagcgagcgc gc 72

<210> 106
<211> 72
<212> DNA
<213> Artificial Sequence

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

<400> 106
gcgcgctcgc tcgctcactg aggccgacgc ccgggctttg cccgggcggc ctcagtgagc 60

gagcgagcgc gc 72

<210> 107
<211> 83
<212> DNA
<213> Artificial Sequence

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

<400> 107
gcgcgctcgc tcgctcactg aggccgcccg ggcaaagccc gggcgtcggg ctttgcccgg 60

cctcagtgag cgagcgagcg cgc 83

<210> 108
<211> 83
<212> DNA
<213> Artificial Sequence

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

<400> 108
gcgcgctcgc tcgctcactg aggccgggca aagcccgacg cccgggcttt gcccgggcgg 60

cctcagtgag cgagcgagcg cgc 83

<210> 109
<211> 77
<212> DNA
<213> Artificial Sequence

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

<400> 109
gcgcgctcgc tcgctcactg aggccgaaac gtcgggcgac ctttggtcgc ccggcctcag 60

tgagcgagcg agcgcgc 77

<210> 110
<211> 77
<212> DNA

<213> Artificial Sequence

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

<400> 110
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgtt tcggcctcag 60

tgagcgagcg agcgcgc 77

<210> 111
<211> 51
<212> DNA
<213> Artificial Sequence

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

<400> 111
gcgcgctcgc tcgctcactg aggcaaagcc tcagtgagcg agcgagcgcg c 51

<210> 112
<211> 51
<212> DNA
<213> Artificial Sequence

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

<400> 112
gcgcgctcgc tcgctcactg aggctttgcc tcagtgagcg agcgagcgcg c 51

<210> 113
<211> 80
<212> DNA
<213> Artificial Sequence

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

<400> 113
gcgcgctcgc tcgctcactg aggccgcccg ggcgtcgggc gacctttggt cgcccggcct 60

cagtgagcga gcgagcgcgc 80

<210> 114
<211> 80
<212> DNA
<213> Artificial Sequence

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

<400> 114
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgcc cgggcggcct 60

cagtgagcga gcgagcgcgc 80

<210> 115
<211> 79
<212> DNA
<213> Artificial Sequence

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

<400> 115
gcgcgctcgc tcgctcactg aggcgcccgg gcgtcgggcg acctttggtc gcccggcctc 60

agtgagcgag cgagcgcgc 79

<210> 116
<211> 79
<212> DNA
<213> Artificial Sequence

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

<400> 116
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgcc cgggcgcctc 60

agtgagcgag cgagcgcgc 79

<210> 117
<211> 5

<212> PRT
<213> Influenza virus

<400> 117
Asp Arg Leu Arg Arg
1   5

<210> 118
<211> 7
<212> PRT
<213> Influenza virus

<400> 118
Pro Lys Gln Lys Lys Arg Lys
1   5

<210> 119
<211> 10
<212> PRT
<213> Hepatitis delta virus

<400> 119
Arg Lys Leu Lys Lys Lys Ile Lys Lys Leu
1   5   10

<210> 120
<211> 10
<212> PRT
<213> Mus musculus

<400> 120
Arg Glu Lys Lys Lys Phe Leu Lys Arg Arg
1   5   10

<210> 121
<211> 20
<212> PRT
<213> Homo sapiens

<400> 121
Lys Arg Lys Gly Asp Glu Val Asp Gly Val Asp Glu Val Ala Lys Lys
1   5   10   15

Lys Ser Lys Lys
            20

<210> 122
<211> 17
<212> PRT
<213> Homo sapiens

<400> 122
Arg Lys Cys Leu Gln Ala Gly Met Asn Leu Glu Ala Arg Lys Thr Lys
1   5   10   15

Lys

<210> 123
<211> 8
<212> DNA
<213> Artificial Sequence

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

<400> 123
gtttaaac   8

<210> 124
<211> 8
<212> DNA
<213> Artificial Sequence

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

<400> 124
ttaattaa   8

<210> 125
<211> 141
<212> DNA
<213> Artificial Sequence

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

<400> 125
aataaacgat aacgccgttg gtggcgtgag gcatgtaaaa ggttacatca ttatcttgtt 60

cgccatccgg ttggtataaa tagacgttca tgttggtttt tgtttcagtt gcaagttggc 120

tgcggcgcgc gcagcacctt t 141

<210> 126

<400> 126
000

<210> 127
<211> 72
<212> DNA
<213> Artificial Sequence

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

<400> 127
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacggc ctcagtgagc 60

gagcgagcgc gc 72

<210> 128
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 128
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacggcctc agtgagcgag cgagcgcgca gctgcctgca 120

gg 122

<210> 129
<211> 1260
<212> DNA

<213> Adeno-associated virus - 2

<400> 129
atggagctgg tcgggtggct cgtggacaag gggattacct cggagaagca gtggatccag 60

gaggaccagg cctcatacat ctccttcaat gcggcctcca actcgcggtc ccaaatcaag 120

gctgccttgg acaatgcggg aaagattatg agcctgacta aaaccgcccc cgactacctg 180

gtgggccagc agcccgtgga ggacatttcc agcaatcgga tttataaaat tttggaacta 240

aacgggtacg atccccaata tgcggcttcc gtctttctgg gatgggccac gaaaaagttc 300

ggcaagagga acaccatctg gctgtttggg cctgcaacta ccgggaagac caacatcgcg 360

gaggccatag cccacactgt gcccttctac gggtgcgtaa actggaccaa tgagaacttt 420

cccttcaacg actgtgtcga caagatggtg atctggtggg aggaggggaa gatgaccgcc 480

aaggtcgtgg agtcggccaa agccattctc ggaggaagca aggtgcgcgt ggaccagaaa 540

tgcaagtcct cggcccagat agacccgact cccgtgatcg tcacctccaa caccaacatg 600

tgcgccgtga ttgacgggaa ctcaacgacc ttcgaacacc agcagccgtt gcaagaccgg 660

atgttcaaat ttgaactcac ccgccgtctg gatcatgact ttgggaaggt caccaagcag 720

gaagtcaaag actttttccg gtgggcaaag gatcacgtgg ttgaggtgga gcatgaattc 780

tacgtcaaaa agggtggagc caagaaaaga cccgccccca gtgacgcaga tataagtgag 840

cccaaacggg tgcgcgagtc agttgcgcag ccatcgacgt cagacgcgga agcttcgatc 900

aactacgcag acaggtacca aaacaaatgt tctcgtcacg tgggcatgaa tctgatgctg 960

tttccctgca gacaatgcga gagaatgaat cagaattcaa atatctgctt cactcacgga 1020

cagaaagact gtttagagtg ctttcccgtg tcagaatctc aacccgtttc tgtcgtcaaa 1080

aaggcgtatc agaaactgtg ctacattcat catatcatgg gaaaggtgcc agacgcttgc 1140

actgcctgcg atctggtcaa tgtggatttg gatgactgca tctttgaaca ataaatgatt 1200

taaatcaggt atggctgccg atggttatct tccagattgg ctcgaggaca ctctctctga 1260

<210> 130
<211> 1932
<212> DNA
<213> Adeno-associated virus - 2

<400> 130
atgccggggt tttacgagat tgtgattaag gtccccagcg accttgacga gcatctgccc 60

ggcatttctg acagctttgt gaactgggtg gccgagaagg aatgggagtt gccgccagat 120

tctgacatgg atctgaatct gattgagcag gcacccctga ccgtggccga gaagctgcag 180

cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct tttctttgtg 240

caatttgaga agggagagag ctacttccac atgcacgtgc tcgtggaaac caccggggtg 300

aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat tcagagaatt 360

taccgcggga tcgagccgac tttgccaaac tggttcgcgg tcacaaagac cagaaatggc 420

gccggaggcg ggaacaaggt ggtggatgag tgctacatcc ccaattactt gctccccaaa 480

acccagcctg agctccagtg ggcgtggact aatatggaac agtatttaag cgcctgtttg 540

aatctcacgg agcgtaaacg gttggtggcg cagcatctga cgcacgtgtc gcagacgcag 600

gagcagaaca aagagaatca gaatcccaat tctgatgcgc cggtgatcag atcaaaaact 660

tcagccaggt acatggagct ggtcgggtgg ctcgtggaca aggggattac ctcggagaag 720

cagtggatcc aggaggacca ggcctcatac atctccttca atgcggcctc caactcgcgg 780

tcccaaatca aggctgcctt ggacaatgcg ggaaagatta tgagcctgac taaaaccgcc 840

cccgactacc tggtgggcca gcagcccgtg gaggacattt ccagcaatcg gatttataaa 900

attttggaac taaacgggta cgatccccaa tatgcggctt ccgtctttct gggatgggcc 960

acgaaaaagt tcggcaagag gaacaccatc tggctgtttg ggcctgcaac taccgggaag 1020

accaacatcg cggaggccat agcccacact gtgcccttct acgggtgcgt aaactggacc 1080

aatgagaact ttcccttcaa cgactgtgtc gacaagatgg tgatctggtg ggaggagggg 1140

aagatgaccg ccaaggtcgt ggagtcggcc aaagccattc tcggaggaag caaggtgcgc 1200

gtggaccaga aatgcaagtc ctcggcccag atagacccga ctcccgtgat cgtcacctcc 1260

aacaccaaca tgtgcgccgt gattgacggg aactcaacga ccttcgaaca ccagcagccg 1320

ttgcaagacc ggatgttcaa atttgaactc acccgccgtc tggatcatga ctttgggaag 1380

gtcaccaagc aggaagtcaa agacttttc cggtgggcaa aggatcacgt ggttgaggtg 1440

gagcatgaat tctacgtcaa aaagggtgga gccaagaaaa gacccgcccc cagtgacgca 1500

gatataagtg agcccaaacg ggtgcgcgag tcagttgcgc agccatcgac gtcagacgcg 1560

gaagcttcga tcaactacgc agacaggtac caaaacaaat gttctcgtca cgtgggcatg 1620

aatctgatgc tgtttccctg cagacaatgc gagagaatga atcagaattc aaatatctgc 1680

ttcactcacg gacagaaaga ctgtttagag tgctttcccg tgtcagaatc tcaacccgtt 1740

tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat gggaaaggtg 1800

ccagacgctt gcactgcctg cgatctggtc aatgtggatt tggatgactg catctttgaa 1860

caataaatga tttaaatcag gtatggctgc cgatggttat cttccagatt ggctcgagga 1920

cactctctct ga 1932

<210> 131
<211> 1876
<212> DNA
<213> Artificial Sequence

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

<400> 131
cgcagccacc atggcggggt tttacgagat tgtgattaag gtccccagcg accttgacgg 60

gcatctgccc ggcatttctg acagctttgt gaactgggtg gccgagaagg aatgggagtt 120

gccgccagat tctgacatgg atctgaatct gattgagcag gcacccctga ccgtggccga 180

gaagctgcag cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct 240

tttctttgtg caatttgaga agggagagag ctacttccac atgcacgtgc tcgtggaaac 300

caccggggtg aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat 360

tcagagaatt taccgcggga tcgagccgac tttgccaaac tggttcgcgg tcacaaagac 420

cagaaatggc gccggaggcg ggaacaaggt ggtggatgag tgctacatcc ccaattactt 480

gctccccaaa acccagcctg agctccagtg ggcgtggact aatatggaac agtatttaag 540

cgcctgtttg aatctcacgg agcgtaaacg gttggtggcg cagcatctga cgcacgtgtc 600

gcagacgcag gagcagaaca aagagaatca gaatcccaat tctgatgcgc cggtgatcag 660

atcaaaaact tcagccaggt acatggagct ggtcgggtgg ctcgtggaca aggggattac 720

ctcggagaag cagtggatcc aggaggacca ggcctcatac atctccttca atgcggcctc 780

caactcgcgg tcccaaatca aggctgcctt ggacaatgcg ggaaagatta tgagcctgac 840

taaaaccgcc cccgactacc tggtgggcca gcagcccgtg gaggacattt ccagcaatcg 900

gatttataaa attttggaac taaacgggta cgatccccaa tatgcggctt ccgtctttct 960

gggatgggcc acgaaaaagt tcggcaagag gaacaccatc tggctgtttg ggcctgcaac 1020

taccgggaag accaacatcg cggaggccat agcccacact gtgcccttct acgggtgcgt 1080

aaactggacc aatgagaact ttcccttcaa cgactgtgtc gacaagatgg tgatctggtg 1140

ggaggagggg aagatgaccg ccaaggtcgt ggagtcggcc aaagccattc tcggaggaag 1200

caaggtgcgc gtggaccaga aatgcaagtc ctcggcccag atagacccga ctcccgtgat 1260

cgtcacctcc aacaccaaca tgtgcgccgt gattgacggg aactcaacga ccttcgaaca 1320

ccagcagccg ttgcaagacc ggatgttcaa atttgaactc acccgccgtc tggatcatga 1380

ctttgggaag gtcaccaagc aggaagtcaa agacttttc cggtgggcaa aggatcacgt 1440

ggttgaggtg gagcatgaat tctacgtcaa aaagggtgga gccaagaaaa gacccgcccc 1500

cagtgacgca gatataagtg agcccaaacg ggtgcgcgag tcagttgcgc agccatcgac 1560

gtcagacgcg gaagcttcga tcaactacgc agacaggtac caaaacaaat gttctcgtca 1620

cgtgggcatg aatctgatgc tgtttccctg cagacaatgc gagagaatga atcagaattc 1680

aaatatctgc ttcactcacg gacagaaaga ctgtttagag tgctttcccg tgtcagaatc 1740

tcaacccgtt tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat 1800

gggaaaggtg ccagacgctt gcactgcctg cgatctggtc aatgtggatt tggatgactg 1860

catctttgaa caataa 1876

<210> 132
<211> 1194
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 132
atggagctgg tcgggtggct cgtggacaag gggattacct cggagaagca gtggatccag 60

gaggaccagg cctcatacat ctccttcaat gcggcctcca actcgcggtc ccaaatcaag 120

gctgccttgg acaatgcggg aaagattatg agcctgacta aaaccgcccc cgactacctg 180

gtgggccagc agcccgtgga ggacatttcc agcaatcgga tttataaaat tttggaacta 240

aacgggtacg atccccaata tgcggcttcc gtctttctgg gatgggccac gaaaaagttc 300

ggcaagagga acaccatctg gctgtttggg cctgcaacta ccgggaagac caacatcgcg 360

gaggccatag cccacactgt gcccttctac gggtgcgtaa actggaccaa tgagaacttt 420

cccttcaacg actgtgtcga caagatggtg atctggtggg aggaggggaa gatgaccgcc 480

aaggtcgtgg agtcggccaa agccattctc ggaggaagca aggtgcgcgt ggaccagaaa 540

tgcaagtcct cggcccagat agacccgact cccgtgatcg tcacctccaa caccaacatg 600

tgcgccgtga ttgacgggaa ctcaacgacc ttcgaacacc agcagccgtt gcaagaccgg 660

atgttcaaat ttgaactcac ccgccgtctg gatcatgact ttgggaaggt caccaagcag 720

gaagtcaaag actttttccg gtgggcaaag gatcacgtgg ttgaggtgga gcatgaattc 780

tacgtcaaaa agggtggagc caagaaaaga cccgccccca gtgacgcaga tataagtgag 840

cccaaacggg tgcgcgagtc agttgcgcag ccatcgacgt cagacgcgga agcttcgatc 900

aactacgcag accgctacca aaacaaatgt tctcgtcacg tgggcatgaa tctgatgctg 960

tttccctgca gacaatgcga gagaatgaat cagaattcaa atatctgctt cactcacgga 1020

cagaaagact gtttagagtg ctttcccgtg tcagaatctc aacccgtttc tgtcgtcaaa 1080

aaggcgtatc agaaactgtg ctacattcat catatcatgg gaaaggtgcc agacgcttgc 1140

actgcctgcg atctggtcaa tgtggatttg gatgactgca tctttgaaca ataa 1194

<210> 133
<211> 1876
<212> DNA
<213> Artificial Sequence

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

<400> 133
cgcagccacc atggcggggt tttacgagat tgtgattaag gtccccagcg accttgacgg 60

gcatctgccc ggcatttctg acagctttgt gaactgggtg gccgagaagg aatgggagtt 120

gccgccagat tctgacatgg atctgaatct gattgagcag gcacccctga ccgtggccga 180

gaagctgcag cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct 240

tttctttgtg caatttgaga agggagagag ctacttccac atgcacgtgc tcgtggaaac 300

caccggggtg aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat 360

tcagagaatt taccgcggga tcgagccgac tttgccaaac tggttcgcgg tcacaaagac 420

cagaaatggc gccggaggcg ggaacaaggt ggtggatgag tgctacatcc ccaattactt 480

gctccccaaa acccagcctg agctccagtg ggcgtggact aatatggaac agtatttaag 540

cgcctgtttg aatctcacgg agcgtaaacg gttggtggcg cagcatctga cgcacgtgtc 600

gcagacgcag gagcagaaca aagagaatca gaatcccaat tctgatgcgc cggtgatcag 660

atcaaaaact tcagccaggt acatggagct ggtcgggtgg ctcgtggaca aggggattac 720

ctcggagaag cagtggatcc aggaggacca ggcctcatac atctccttca atgcggcctc 780

caactcgcgg tcccaaatca aggctgcctt ggacaatgcg ggaaagatta tgagcctgac 840

taaaaccgcc cccgactacc tggtgggcca gcagcccgtg gaggacattt ccagcaatcg 900

gatttataaa attttggaac taaacgggta cgatccccaa tatgcggctt ccgtctttct 960

gggatgggcc acgaaaaagt tcggcaagag gaacaccatc tggctgtttg ggcctgcaac 1020

taccgggaag accaacatcg cggaggccat agcccacact gtgcccttct acgggtgcgt 1080

aaactggacc aatgagaact ttcccttcaa cgactgtgtc gacaagatgg tgatctggtg 1140

ggaggagggg aagatgaccg ccaaggtcgt ggagtcggcc aaagccattc tcggaggaag 1200

caaggtgcgc gtggaccaga aatgcaagtc ctcggcccag atagacccga ctcccgtgat 1260

cgtcacctcc aacaccaaca tgtgcgccgt gattgacggg aactcaacga ccttcgaaca 1320

ccagcagccg ttgcaagacc ggatgttcaa atttgaactc acccgccgtc tggatcatga 1380

ctttgggaag gtcaccaagc aggaagtcaa agacttttc cggtgggcaa aggatcacgt 1440

ggttgaggtg gagcatgaat tctacgtcaa aaagggtgga gccaagaaaa gacccgcccc 1500

cagtgacgca gatataagtg agcccaaacg ggtgcgcgag tcagttgcgc agccatcgac 1560

gtcagacgcg gaagcttcga tcaactacgc agacaggtac caaaacaaat gttctcgtca 1620

cgtgggcatg aatctgatgc tgtttccctg cagacaatgc gagagaatga atcagaattc 1680

aaatatctgc ttcactcacg gacagaaaga ctgtttagag tgctttcccg tgtcagaatc 1740

tcaacccgtt tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat 1800

gggaaaggtg ccagacgctt gcactgcctg cgatctggtc aatgtggatt tggatgactg 1860

catctttgaa caataa 1876

<210> 134
<211> 51
<212> DNA
<213> Artificial Sequence

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

<400> 134
ctaggccgcc cgggcaaagc ccgggcgtcg ggcgaccttt ggtcgcccgg c 51

<210> 135
<211> 65
<212> DNA
<213> Artificial Sequence

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

<400> 135
ctaggactga ggccgcccgg gcaaagcccg ggcgtcgggc gacctttggt cgcccggcct 60

cagtc 65

<210> 136
<211> 67

<212> DNA
<213> Artificial Sequence

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

<400> 136
ggactgaggc cgcccgggca aagcccgggc gtcgggcgac ctttggtcgc ccggcctcag 60

tcctgca 67

<210> 137
<211> 41
<212> DNA
<213> Artificial Sequence

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

<400> 137
gtgcgggcga ccaaaggtcg cccgacgccc gggcgcactc a 41

<210> 138
<211> 56
<212> DNA
<213> Artificial Sequence

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

<400> 138
ggactgaggc cgggcgacca aaggtcgccc gacgcccggg cggcctcagt cctgca 56

<210> 139
<211> 54
<212> DNA
<213> Artificial Sequence

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

<400> 139
ctaggactga ggccgcccgg gcgtcgggcg acctttggtc gcccggcctc agtc 54

<210> 140
<211> 48
<212> DNA
<213> Artificial Sequence

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

<400> 140
ggactgaggc cgggcgacca aaggtcgccc gacggcctca gtcctgca 48

<210> 141
<211> 46
<212> DNA
<213> Artificial Sequence

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

<400> 141
ctaggactga ggccgtcggg cgacctttgg tcgcccggcc tcagtc 46

<210> 142
<211> 67
<212> DNA
<213> Artificial Sequence

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

<400> 142
ggactgaggc ccgggcgacc aaaggtcgcc cgacgcccgg gctttgcccg ggcgcctcag 60

tcctgca 67

<210> 143
<211> 47
<212> DNA
<213> Artificial Sequence

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

oligonucleotide

<400> 143
atacctaggc acgcgtgtta ctagttatta atagtaatca attacgg 47

<210> 144
<211> 29
<212> DNA
<213> Artificial Sequence

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

<400> 144
atacctaggg gccgcacgcg tgttactag 29

<210> 145
<211> 42
<212> DNA
<213> Artificial Sequence

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

<400> 145
atacactcag tgcctgcagg cacgtggtcc ggagatccag ac 42

<210> 146
<211> 3754
<212> DNA
<213> Artificial Sequence

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

<400> 146
cctaggtgag cgagcgagcg cgcagagagg gagtggccaa ctccatcact aggggttcct 60

tgtagttaat gattaacccg ccatgctact tatcgcggcc gctcaatatt ggccattagc 120

catattattc attggttata tagcataaat caatattggc tattggccat tgcatacgtt 180

gtatctatat cataatatgt acatttatat tggctcatgt ccaatatgac cgccatgttg 240

gcattgatta ttgactagtt attaatagta atcaattacg gggtcattag ttcatagccc 300

atatatggag ttccgcgtta cataacttac ggtaaatggc ccgcctggct gaccgcccaa 360

cgacccccgc ccattgacgt caataatgac gtatgttccc atagtaacgc caatagggac 420

tttccattga cgtcaatggg tggagtattt acggtaaact gcccacttgg cagtacatca 480

agtgtatcat atgccaagtc cgccccctat tgacgtcaat gacggtaaat ggcccgcctg 540

gcattatgcc cagtacatga ccttacggga ctttcctact tggcagtaca tctacgtatt 600

agtcatcgct attaccatgg tcgaggtgag ccccacgttc tgcttcactc tccccatctc 660

ccccccctcc ccacccccaa ttttgtattt atttattttt taattatttt gtgcagcgat 720

gggggcgggg gggggggggg ggcgcgcgcc aggcggggcg gggcggggcg aggggcgggg 780

cggggcgagg cggagaggtg cggcggcagc caatcagagc ggcgcgctcc gaaagtttcc 840

ttttatggcg aggcggcggc ggcggcggcc ctataaaaag cgaagcgcgc ggcgggcggg 900

agtcgctgcg acgctgcctt cgccccgtgc cccgctccgc cgccgcctcg cgccgcccgc 960

cccggctctg actgaccgcg ttactcccac aggtgagcgg gcgggacggc ccttctcctc 1020

cgggctgtaa ttagcgcttg gtttaatgac ggcttgtttc ttttctgtgg ctgcgtgaaa 1080

gccttgaggg gctccgggag ggccctttgt gcgggggggа gcggctcggg gggtgcgtgc 1140

gtgtgtgtgt gcgtggggag cgccgcgtgc ggcccgcgct gcccggcggc tgtgagcgct 1200

gcgggcgcgg cgcggggctt tgtgcgctcc gcagtgtgcg cgaggggagc gcggccgggg 1260

gcggtgcccc gcggtgcggg gggggctgcg aggggaacaa aggctgcgtg cggggtgtgt 1320

gcgtgggggg gtgagcaggg ggtgtgggcg cggcggtcgg gctgtaaccc ccccctgcac 1380

ccccctcccc gagttgctga gcacggcccg gcttcgggtg cggggctccg tacggggcgt 1440

ggcgcggggc tcgccgtgcc gggcgggggg tggcggcagg tgggggtgcc gggcggggcg 1500

gggccgcctc gggccgggga gggctcgggg gaggggcgcg gcggcccccg gagcgccggc 1560

ggctgtcgag gcgcggcgag ccgcagccat tgccttttat ggtaatcgtg cgagagggcg 1620

cagggacttc ctttgtccca aatctgtgcg gagccgaaat ctgggaggcg ccgccgcacc 1680

ccctctagcg ggcgcggggc gaagcggtgc ggcgccggca ggaaggaaat gggcggggag 1740

ggccttcgtg cgtcgccgcg ccgccgtccc cttctccctc tccagcctcg gggctgtccg 1800

cgggggggacg gctgccttcg gggggggacgg ggcagggcgg ggttcggctt ctggcgtgtg 1860

accggcggct ctagagcctc tgctaaccat gttttagcct tcttcttttt cctacagctc 1920

ctgggcaacg tgctggttat tgtgctgtct catcatttgt cgacagaatt cctcgaagat 1980

ccgaaggggt tcaagcttgg cattccggta ctgttggtaa agccagttta aacgccgcca 2040

ccatggtgag caagggcgag gagctgttca ccggggtggt gcccatcctg gtcgagctgg 2100

acggcgacgt aaacggccac aagttcagcg tgtccggcga gggcgagggc gatgccacct 2160

acggcaagct gaccctgaag ttcatctgca ccaccggcaa gctgcccgtg ccctggccca 2220

ccctcgtgac caccctgacc tacggcgtgc agtgcttcag ccgctacccc gaccacatga 2280

agcagcacga cttcttcaag tccgccatgc ccgaaggcta cgtccaggag cgcaccatct 2340

tcttcaagga cgacggcaac tacaagaccc gcgccgaggt gaagttcgag ggcgacaccc 2400

tggtgaaccg catcgagctg aagggcatcg acttcaagga ggacggcaac atcctggggc 2460

acaagctgga gtacaactac aacagccaca acgtctatat catggccgac aagcagaaga 2520

acggcatcaa ggtgaacttc aagatccgcc acaacatcga ggacggcagc gtgcagctcg 2580

ccgaccacta ccagcagaac acccccatcg gcgacggccc cgtgctgctg cccgacaacc 2640

actacctgag cacccagtcc gccctgagca aagaccccaa cgagaagcgc gatcacatgg 2700

tcctgctgga gttcgtgacc gccgccggga tcactctcgg catggacgag ctgtacaagt 2760

aattaattaa gagcatctta ccgccattta ttcccatatt tgttctgttt ttcttgattt 2820

gggtatacat ttaaatgtta ataaaacaaa atggtggggc aatcatttac atttttaggg 2880

atatgtaatt actagttcag gtgtattgcc acaagacaaa catgttaaga aactttcccg 2940

ttatttacgc tctgttcctg ttaatcaacc tctggattac aaaatttgtg aaagattgac 3000

tgatattctt aactatgttg ctccttttac gctgtgtgga tatgctgctt tatagcctct 3060

gtatctagct attgcttccc gtacggcttt cgttttctcc tccttgtata aatcctggtt 3120

gctgtctctt ttagaggagt tgtggcccgt tgtccgtcaa cgtggcgtgg tgtgctctgt 3180

gtttgctgac gcaaccccca ctggctgggg cattgccacc acctgtcaac tcctttctgg 3240

gactttcgct ttccccctcc cgatcgccac ggcagaactc atcgccgcct gccttgcccg 3300

ctgctggaca ggggctaggt tgctgggcac tgataattcc gtggtgttgt ctgtgccttc 3360

tagttgccag ccatctgttg tttgcccctc ccccgtgcct tccttgaccc tggaaggtgc 3420

cactcccact gtcctttcct aataaaatga ggaaattgca tcgcattgtc tgagtaggtg 3480

tcattctatt ctgggggggtg gggtggggca ggacagcaag ggggaggatt gggaagacaa 3540

tagcaggcat gctggggatg cggtgggctc tatggctcta gagcatggct acgtagataa 3600

gtagcatggc gggttaatca ttaactacac ctgcagcagg aacccctagt gatggagttg 3660

gccactccct ctctgcgcgc tcgctcgctc cctgcaggac tgaggccggg cgaccaaagg 3720

tcgcccgacg cccgggcggc ctcagtcctg cagg 3754

<210> 147
<211> 8418
<212> DNA
<213> Artificial Sequence

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

<400> 147
ggcagctgcg cgctcgctcg ctcacctagg ccgcccgggc aaagcccggg cgtcgggcga 60

cctttggtcg cccggcctag gtgagcgagc gagcgcgcag agagggagtg gccaactcca 120

tcactagggg ttccttgtag ttaatgatta acccgccatg ctacttatcg cggccgctca 180

atattggcca ttagccatat tattcattgg ttatatagca taaatcaata ttggctattg 240

gccattgcat acgttgtatc tatatcataa tatgtacatt tatattggct catgtccaat 300

atgaccgcca tgttggcatt gattattgac tagttattaa tagtaatcaa ttacggggtc 360

attagttcat agcccatata tggagttccg cgttacataa cttacggtaa atggcccgcc 420

tggctgaccg cccaacgacc cccgcccatt gacgtcaata atgacgtatg ttcccatagt 480

aacgccaata gggactttcc attgacgtca atgggtggag tatttacggt aaactgccca 540

cttggcagta catcaagtgt atcatatgcc aagtccgccc cctattgacg tcaatgacgg 600

taaatggccc gcctggcatt atgcccagta catgacctta cgggactttc ctacttggca 660

gtacatctac gtattagtca tcgctattac catggtcgag gtgagcccca cgttctgctt 720

cactctcccc atctcccccc cctccccacc cccaattttg tatttattta ttttttaatt 780

attttgtgca gcgatggggg cggggggggg gggggggcgc gcgccaggcg gggcggggcg 840

gggcgagggg cggggcgggg cgaggcggag aggtgcggcg gcagccaatc agagcggcgc 900

gctccgaaag tttcctttta tggcgaggcg gcggcggcgg cggccctata aaaagcgaag 960

cgcgcggcgg gcgggagtcg ctgcgacgct gccttcgccc cgtgccccgc tccgccgccg 1020

cctcgcgccg cccgccccgg ctctgactga ccgcgttact cccacaggtg agcgggcggg 1080

acggcccttc tcctccgggc tgtaattagc gcttggttta atgacggctt gtttcttttc 1140

tgtggctgcg tgaaagcctt gaggggctcc gggagggccc tttgtgcggg ggggagcggc 1200

tcgggggggtg cgtgcgtgtg tgtgtgcgtg gggagcgccg cgtgcggccc gcgctgcccg 1260

gcggctgtga gcgctgcggg cgcggcgcgg ggctttgtgc gctccgcagt gtgcgcgagg 1320

ggagcgcggc cgggggcggt gccccgcggt gcgggggggg ctgcgagggg aacaaaggct 1380

gcgtgcgggg tgtgtgcgtg gggggggtgag cagggggtgt gggcgcggcg gtcgggctgt 1440

aaccccccccc tgcacccccc tccccgagtt gctgagcacg gcccggcttc gggtgcgggg 1500

ctccgtacgg ggcgtggcgc ggggctcgcc gtgccgggcg gggggtggcg gcaggtgggg 1560

gtgccgggcg gggcggggcc gcctcgggcc ggggagggct cgggggaggg gcgcggcggc 1620

ccccggagcg ccggcggctg tcgaggcgcg gcgagccgca gccattgcct tttatggtaa 1680

tcgtgcgaga gggcgcaggg acttcctttg tcccaaatct gtgcggagcc gaaatctggg 1740

aggcgccgcc gcacccccctc tagcgggcgc ggggcgaagc ggtgcggcgc cggcaggaag 1800

gaaatgggcg gggagggcct tcgtgcgtcg ccgcgccgcc gtccccttct ccctctccag 1860

cctcggggct gtccgcgggg ggacggctgc cttcgggggg gacggggcag ggcggggttc 1920

ggcttctggc gtgtgaccgg cggctctaga gcctctgcta accatgtttt agccttcttc 1980

tttttcctac agctcctggg caacgtgctg gttattgtgc tgtctcatca tttgtcgaca 2040

gaattcctcg aagatccgaa ggggttcaag cttggcattc cggtactgtt ggtaaagcca 2100

gtttaaacgc cgccaccatg gtgagcaagg gcgaggagct gttcaccggg gtggtgccca 2160

tcctggtcga gctggacggc gacgtaaacg gccacaagtt cagcgtgtcc ggcgagggcg 2220

agggcgatgc cacctacggc aagctgaccc tgaagttcat ctgcaccacc ggcaagctgc 2280

ccgtgccctg gcccaccctc gtgaccaccc tgacctacgg cgtgcagtgc ttcagccgct 2340

accccgacca catgaagcag cacgacttct tcaagtccgc catgcccgaa ggctacgtcc 2400

aggagcgcac catcttcttc aaggacgacg gcaactacaa gacccgcgcc gaggtgaagt 2460

tcgagggcga caccctggtg aaccgcatcg agctgaaggg catcgacttc aaggaggacg 2520

gcaacatcct ggggcacaag ctggagtaca actacaacag ccacaacgtc tatatcatgg 2580

ccgacaagca gaagaacggc atcaaggtga acttcaagat ccgccacaac atcgaggacg 2640

gcagcgtgca gctcgccgac cactaccagc agaacacccc catcggcgac ggccccgtgc 2700

tgctgcccga caaccactac ctgagcaccc agtccgccct gagcaaagac cccaacgaga 2760

agcgcgatca catggtcctg ctggagttcg tgaccgccgc cgggatcact ctcggcatgg 2820

acgagctgta caagtaatta attaagagca tcttaccgcc atttattccc atatttgttc 2880

tgtttttctt gatttgggta tacatttaaa tgttaataaa acaaaatggt ggggcaatca 2940

tttacatttt tagggatatg taattactag ttcaggtgta ttgccacaag acaaacatgt 3000

taagaaactt tcccgttatt tacgctctgt tcctgttaat caacctctgg attacaaaat 3060

ttgtgaaaga ttgactgata ttcttaacta tgttgctcct tttacgctgt gtggatatgc 3120

tgctttatag cctctgtatc tagctattgc ttcccgtacg gctttcgttt tctcctcctt 3180

gtataaatcc tggttgctgt ctcttttaga ggagttgtgg cccgttgtcc gtcaacgtgg 3240

cgtggtgtgc tctgtgtttg ctgacgcaac ccccactggc tggggcattg ccaccacctg 3300

tcaactcctt tctgggactt tcgctttccc cctcccgatc gccacggcag aactcatcgc 3360

cgcctgcctt gcccgctgct ggacaggggc taggttgctg ggcactgata attccgtggt 3420

gttgtctgtg ccttctagtt gccagccatc tgttgtttgc ccctcccccg tgccttcctt 3480

gaccctggaa ggtgccactc ccactgtcct ttcctaataa aatgaggaaa ttgcatcgca 3540

ttgtctgagt aggtgtcatt ctattctggg gggtggggtg gggcaggaca gcaaggggga 3600

ggattgggaa gacaatagca ggcatgctgg ggatgcggtg ggctctatgg ctctagagca 3660

tggctacgta gataagtagc atggcgggtt aatcattaac tacacctgca gcaggaaccc 3720

ctagtgatgg agttggccac tccctctctg cgcgctcgct cgctccctgc aggactgagg 3780

ccgggcgacc aaaggtcgcc cgacgcccgg gcggcctcag tcctgcaggg agcgagcgag 3840

cgcgcagctg cctgcacggg cgcgccggta ccgggagatg ggggaggcta actgaaacac 3900

ggaaggagac aataccggaa ggaacccgcg ctatgacggc aataaaaaga cagaataaaa 3960

cgcacgggtg ttgggtcgtt tgttcataaa cgcggggttc ggtcccaggg ctggcactct 4020

gtcgataccc caccgagacc ccattgggac caatacgccc gcgtttcttc cttttcccca 4080

ccccaacccc caagttcggg tgaaggccca gggctcgcag ccaacgtcgg ggcggcaagc 4140

cctgccatag ccactacggg tacgtaggcc aaccactaga actatagcta gagtcctggg 4200

cgaacaaacg atgctcgcct tccagaaaac cgaggatgcg aaccacttca tccggggtca 4260

gcaccaccgg caagcgccgc gacggccgag gtctaccgat ctcctgaagc cagggcagat 4320

ccgtgcacag caccttgccg tagaagaaca gcaaggccgc caatgcctga cgatgcgtgg 4380

agaccgaaac cttgcgctcg ttcgccagcc aggacagaaa tgcctcgact tcgctgctgc 4440

ccaaggttgc cgggtgacgc acaccgtgga aacggatgaa ggcacgaacc cagttgacat 4500

aagcctgttc ggttcgtaaa ctgtaatgca agtagcgtat gcgctcacgc aactggtcca 4560

gaaccttgac cgaacgcagc ggtggtaacg gcgcagtggc ggttttcatg gcttgttatg 4620

actgtttttt tgtacagtct atgcctcggg catccaagca gcaagcgcgt tacgccgtgg 4680

gtcgatgttt gatgttatgg agcagcaacg atgttacgca gcagcaacga tgttacgcag 4740

cagggcagtc gccctaaaac aaagttaggt ggctcaagta tgggcatcat tcgcacatgt 4800

aggctcggcc ctgaccaagt caaatccatg cgggctgctc ttgatctttt cggtcgtgag 4860

ttcggagacg tagccaccta ctcccaacat cagccggact ccgattacct cgggaacttg 4920

ctccgtagta agacattcat cgcgcttgct gccttcgacc aagaagcggt tgttggcgct 4980

ctcgcggctt acgttctgcc caggtttgag cagccgcgta gtgagatcta tatctatgat 5040

ctcgcagtct ccggcgagca ccggaggcag ggcattgcca ccgcgctcat caatctcctc 5100

aagcatgagg ccaacgcgct tggtgcttat gtgatctacg tgcaagcaga ttacggtgac 5160

gatcccgcag tggctctcta tacaaagttg ggcatacggg aagaagtgat gcactttgat 5220

atcgacccaa gtaccgccac ctaacaattc gttcaagccg agatcggctt cccggccgcg 5280

gagttgttcg gtaaattgtc acaacgccgc gaatatagtc tttaccatgc ccttggccac 5340

gcccctcttt aatacgacgg gcaatttgca cttcagaaaa tgaagagttt gctttagcca 5400

taacaaaagt ccagtatgct ttttcacagc ataactggac tgatttcagt ttacaactat 5460

tctgtctagt ttaagacttt attgtcatag tttagatcta ttttgttcag tttaagactt 5520

tattgtccgc ccacacccgc ttacgcaggg catccattta ttactcaacc gtaaccgatt 5580

ttgccaggtt acgcggctgg tctgcggtgt gaaataccgc acagatgcgt aaggagaaaa 5640

taccgcatca ggcgctcttc cgcttcctcg ctcactgact cgctgcgctc ggtcgttcgg 5700

ctgcggcgag cggtatcagc tcactcaaag gcggtaatac ggttatccac agaatcaggg 5760

gataacgcag gaaagaacat gtgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag 5820

gccgcgttgc tggcgttttt ccataggctc cgcccccctg acgagcatca caaaaatcga 5880

cgctcaagtc agaggtggcg aaacccgaca ggactataaa gataccaggc gtttccccct 5940

ggaagctccc tcgtgcgctc tcctgttccg accctgccgc ttaccggata cctgtccgcc 6000

tttctccctt cgggaagcgt ggcgctttct caatgctcac gctgtaggta tctcagttcg 6060

gtgtaggtcg ttcgctccaa gctgggctgt gtgcacgaac cccccgttca gcccgaccgc 6120

tgcgccttat ccggtaacta tcgtcttgag tccaacccgg taagacacga cttatcgcca 6180

ctggcagcag ccactggtaa caggattagc agagcgaggt atgtaggcgg tgctacagag 6240

ttcttgaagt ggtggcctaa ctacggctac actagaagga cagtatttgg tatctgcgct 6300

ctgctgaagc cagttacctt cggaaaaaga gttggtagct cttgatccgg caaacaaacc 6360

accgctggta gcggtggttt ttttgtttgc aagcagcaga ttacgcgcag aaaaaaagga 6420

tctcaagaag atcctttgat cttttctacg gggtctgacg ctcagtggaa cgaaaactca 6480

cgttaaggga ttttggtcat gagattatca aaaaggatct tcacctagat ccttttaaat 6540

taaaaatgaa gttttaaatc aatctaaagt atatatgagt aaacttggtc tgacagttac 6600

caatgcttaa tcagtgaggc acctatctca gcgatctgtc tatttcgttc atccatagtt 6660

gcctgactcc ccgtcgtgta gataactacg atacgggagg gcttaccatc tggccccagt 6720

gctgcaatga taccgcgaga cccacgctca ccggctccag atttatcagc aataaaccag 6780

ccagccggaa gggccgagcg cagaagtggt cctgcaactt tatccgcctc catccagtct 6840

attaattgtt gccgggaagc tagagtaagt agttcgccag ttaatagttt gcgcaacgtt 6900

gttgccattg ctacaggcat cgtggtgtca cgctcgtcgt ttggtatggc ttcattcagc 6960

tccggttccc aacgatcaag gcgagttaca tgatccccca tgttgtgcaa aaaagcggtt 7020

agctccttcg gtcctccgat cgttgtcaga agtaagttgg ccgcagtgtt atcactcatg 7080

gttatggcag cactgcataa ttctcttact gtcatgccat ccgtaagatg cttttctgtg 7140

actggtgagt actcaaccaa gtcattctga gaatagtgta tgcggcgacc gagttgctct 7200

tgcccggcgt caatacggga taataccgcg ccacatagca gaactttaaa agtgctcatc 7260

attggaaaac gttcttcggg gcgaaaactc tcaaggatct taccgctgtt gagatccagt 7320

tcgatgtaac ccactcgtgc acccaactga tcttcagcat cttttacttt caccagcgtt 7380

tctgggtgag caaaaacagg aaggcaaaat gccgcaaaaa agggaataag ggcgacacgg 7440

aaatgttgaa tactcatact cttccttttt caatattatt gaagcattta tcagggttat 7500

tgtctcatga gcggatacat atttgaatgt atttagaaaa ataaacaaat aggggttccg 7560

cgcacatttc cccgaaaagt gccacctgaa attgtaaacg ttaatatttt gttaaaattc 7620

gcgttaaatt tttgttaaat cagctcattt tttaaccaat aggccgaaat cggcaaaatc 7680

ccttataaat caaaagaata gaccgagata gggttgagtg ttgttccagt ttggaacaag 7740

agtccactat taaagaacgt ggactccaac gtcaaagggc gaaaaaccgt ctatcagggc 7800

gatggcccac tacgtgaacc atcaccctaa tcaagttttt tggggtcgag gtgccgtaaa 7860

gcactaaatc ggaaccctaa agggagcccc cgatttagag cttgacgggg aaagccggcg 7920

aacgtggcga gaaaggaagg gaagaaagcg aaaggagcgg gcgctagggc gctggcaagt 7980

gtagcggtca cgctgcgcgt aaccaccaca cccgccgcgc ttaatgcgcc gctacagggc 8040

gcgtcccatt cgccattcag gctgcaaata agcgttgata ttcagtcaat tacaaacatt 8100

aataacgaag agatgacaga aaaattttca ttctgtgaca gagaaaaagt agccgaagat 8160

gacggtttgt cacatggagt tggcaggatg tttgattaaa aacataacag gaagaaaaat 8220

gccccgctgt gggcggacaa aatagttggg aactgggagg ggtggaaatg gagtttttaa 8280

ggattattta gggaagagtg acaaaataga tgggaactgg gtgtagcgtc gtaagctaat 8340

acgaaaatta aaaatgacaa aatagtttgg aactagattt cacttatctg gttcggatct 8400

cctagtgagc tccctgca 8418

<210> 148
<211> 225
<212> DNA
<213> Artificial Sequence

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

<400> 148
tgtgccttct agttgccagc catctgttgt ttgcccctcc cccgtgcctt ccttgaccct 60

ggaaggtgcc actcccactg tcctttccta ataaaatgag gaaattgcat cgcattgtct 120

gagtaggtgt cattctattc tgggggggtgg ggtggggcag gacagcaagg gggaggattg 180

ggaagacaat agcaggcatg ctggggatgc ggtgggctct atggc 225

<210> 149
<211> 1177
<212> DNA
<213> Artificial Sequence

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

<400> 149
ggctcagagg ctcagaggca cacaggagtt tctgggctca ccctgccccc ttccaacccc 60

tcagttccca tcctccagca gctgtttgtg tgctgcctct gaagtccaca ctgaacaaac 120

ttcagcctac tcatgtccct aaaatgggca aacattgcaa gcagcaaaca gcaaacacac 180

agccctccct gcctgctgac cttggagctg gggcagaggt cagagacctc tctgggccca 240

tgccacctcc aacatccact cgacccccttg gaatttcggt ggagaggagc agaggttgtc 300

ctggcgtggt ttaggtagtg tgagagggtc cgggttcaaa accacttgct gggtggggag 360

tcgtcagtaa gtggctatgc cccgaccccg aagcctgttt ccccatctgt acaatggaaa 420

tgataaagac gcccatctga tagggttttt gtggcaaata aacatttggt ttttttgttt 480

tgttttgttt tgtttttga gatggaggtt tgctctgtcg cccaggctgg agtgcagtga 540

cacaatctca tctcaccaca accttcccct gcctcagcct cccaagtagc tgggattaca 600

agcatgtgcc accacacctg gctaattttc tatttttagt agagacgggt ttctccatgt 660

tggtcagcct cagcctccca agtaactggg attacaggcc tgtgccacca cacccggcta 720

atttttttcta tttttgacag ggacggggtt tcaccatgtt ggtcaggctg gtctagaggt 780

accggatctt gctaccagtg gaacagccac taaggattct gcagtgagag cagagggcca 840

gctaagtggt actctcccag agactgtctg actcacgcca ccccctccac cttggacaca 900

ggacgctgtg gtttctgagc caggtacaat gactcctttc ggtaagtgca gtggaagctg 960

tacactgccc aggcaaagcg tccgggcagc gtaggcgggc gactcagatc ccagccagtg 1020

gacttagccc ctgtttgctc ctccgataac tggggtgacc ttggttaata ttcaccagca 1080

gcctcccccg ttgcccctct ggatccactg cttaaatacg gacgaggaca gggccctgtc 1140

tcctcagctt caggcaccac cactgacctg ggacagt 1177

<210> 150

<400> 150
000

<210> 151
<211> 573
<212> DNA
<213> Mus musculus

<400> 151
gtaagagttt tatgtttttt catctctgct tgtatttttc tagtaatgga agcctggtat 60

tttaaaatag ttaaattttc ctttagtgct gatttctaga ttattattac tgttgttgtt 120

gttattattg tcattatttg catctgagaa cccttaggtg gttatattat tgatatattt 180

ttggtatctt tgatgacaat aatgggggat tttgaaagct tagctttaaa tttcttttaa 240

ttaaaaaaaa atgctaggca gaatgactca aattacgttg gatacagttg aatttattac 300

ggtctcatag ggcctgcctg ctcgaccatg ctatactaaa aattaaaagt gtgtgttact 360

aattttataa atggagtttc catttatatt tacctttatt tcttatttac cattgtctta 420

gtagatattt acaaacatga cagaaacact aaatcttgag tttgaatgca cagatataaa 480

cacttaacgg gttttaaaaa taataatgtt ggtgaaaaaa tataactttg agtgtagcag 540

agaggaacca ttgccacctt cagattttcc tgt 573

<210> 152
<211> 1993
<212> DNA
<213> Mus musculus

<400> 152
acgatcggga actggcatct tcagggagta gcttaggtca gtgaagagaa gaacaaaaag 60

cagcatatta cagttagttg tcttcatcaa tctttaaata tgttgtgtgg tttttctctc 120

cctgtttcca cagacaagag tgagatcgcc catcggtata atgatttggg agaacaacat 180

ttcaaaggcc tgtaagttat aatgctgaaa gcccacttaa tatttctggt agtattagtt 240

aaagttttaa aacacctttt tccaccttga gtgtgagaat tgtagagcag tgctgtccag 300

tagaaatgtg tgcattgaca gaaagactgt ggatctgtgc tgagcaatgt ggcagccaga 360

gatcacaagg ctatcaagca ctttgcacat ggcaagtgta actgagaagc acacattcaa 420

ataatagtta attttaattg aatgtatcta gccatgtgtg gctagtagct cctttcctgg 480

agagagaatc tggagcccac atctaacttg ttaagtctgg aatcttattt tttatttctg 540

gaaaggtcta tgaactatag ttttgggggc agctcactta ctaactttta atgcaataag 600

atctcatggt atcttgagaa cattattttg tctctttgta gtactgaaac cttatacatg 660

tgaagtaagg ggtctatact taagtcacat ctccaacctt agtaatgttt taatgtagta 720

aaaaaatgag taattaattt atttttagaa ggtcaatagt atcatgtatt ccaaataaca 780

gaggtatatg gttagaaaag aaacaattca aaggacttat ataatatcta gccttgacaa 840

tgaataaatt tagagagtag tttgcctgtt tgcctcatgt tcataaatct attgacacat 900

atgtgcatct gcacttcagc atggtagaag tccatattcc tttgcttgga aaggcaggtg 960

ttcccattac gcctcagaga atagctgacg ggaagaggct ttctagatag ttgtatgaaa 1020

gatatacaaa atctcgcagg tatacacagg catgatttgc tggttgggag agccacttgc 1080

ctcatactga ggtttttgtg tctgcttttc agagtcctga ttgccttttc ccagtatctc 1140

cagaaatgct catacgatga gcatgccaaa ttagtgcagg aagtaacaga ctttgcaaag 1200

acgtgtgttg ccgatgagtc tgccgccaac tgtgacaaat cccttgtgag taccttctga 1260

ttttgtggat ctactttcct gctttctgga actctgtttc aaagccaatc atgactccat 1320

cacttaaggc cccgggaaca ctgtggcaga gggcagcaga gagattgata aagccagggt 1380

gatgggaatt ttctgtggga ctccatttca tagtaattgc agaagctaca atacactcaa 1440

aaagtctcac cacatgactg cccaaatggg agcttgacag tgacagtgac agtagatatg 1500

ccaaagtgga tgagggaaag accacaagag ctaaaccctg taaaaagaac tgtaggcaac 1560

taaggaatgc agagagaaga agttgccttg gaagagcata ccaactgcct ctccaatacc 1620

aatggtcatc cctaaaacat acgtatgaat aacatgcaga ctaagcaggc tacatttagg 1680

aatatacatg tatttacata aatgtatatg catgtaacaa caatgaatga aaactgaggt 1740

catggatctg aaagagagca agggggctta catgagaggg tttggaggga ggggttggag 1800

ggagggaggt attattcttt agttttacag ggaacgtagt aaaaacatag gcttctccca 1860

aaggagcaga gcccatgagg agctgtgcaa ggttccccag cttgatttta cctgctcctc 1920

aaattccctt gatttgtttt tattataatg actttactcc tagcttttag tgtcagatag 1980

aaaacatgga agg 1993

<210> 153
<211> 1350
<212> DNA
<213> Homo sapiens

<400> 153
taggaggctg aggcaggagg atcgcttgag cccaggagtt cgagaccagc ctgggcaaca 60

tagtgtgatc ttgtatctat aaaaataaac aaaattagct tggtgtggtg gcgcctgtag 120

tccccagcca cttggagggg tgaggtgaga ggattgcttg agcccgggat ggtccaggct 180

gcagtgagcc atgatcgtgc cactgcactc cagcctgggc gacagagtga gaccctgtct 240

cacaacaaca acaacaacaa caaaaaggct gagctgcacc atgcttgacc cagtttctta 300

aaattgttgt caaagcttca ttcactccat ggtgctatag agcacaagat tttatttggt 360

gagatggtgc tttcatgaat tcccccaaca gagccaagct ctccatctag tggacaggga 420

agctagcagc aaaccttccc ttcactacaa aacttcattg cttggccaaa aagagagtta 480

attcaatgta gacatctatg taggcaatta aaaacctatt gatgtataaa acagtttgca 540

ttcatggagg gcaactaaat acattctagg actttataaa agatcacttt ttatttatgc 600

acagggtgga acaagatgga ttatcaagtg tcaagtccaa tctatgacat caattattat 660

acatcggagc cctgccaaaa aatcaatgtg aagcaaatcg cagcccgcct cctgcctccg 720

ctctactcac tggtgttcat ctttggtttt gtgggcaaca tgctggtcat cctcatcctg 780

ataaactgca aaaggctgaa gagcatgact gacatctacc tgctcaacct ggccatctct 840

gacctgtttt tccttcttac tgtccccttc tgggctcact atgctgccgc ccagtgggac 900

tttggaaata caatgtgtca actcttgaca gggctctatt ttataggctt cttctctgga 960

atcttcttca tcatcctcct gacaatcgat aggtacctgg ctgtcgtcca tgctgtgttt 1020

gctttaaaag ccaggacggt caccttggg gtggtgacaa gtgtgatcac ttgggtggtg 1080

gctgtgtttg cgtctctccc aggaatcatc tttaccagat ctcaaaaaga aggtcttcat 1140

tacacctgca gctctcattt tccatacagt cagtatcaat tctggaagaa tttccagaca 1200

ttaaagatag tcatcttggg gctggtcctg ccgctgcttg tcatggtcat ctgctactcg 1260

ggaatcctaa aaactctgct tcggtgtcga aatgagaaga agaggcacag ggctgtgagg 1320

cttatcttca ccatcatgat tgtttatttt 1350

<210> 154
<211> 1223
<212> DNA
<213> Homo sapiens

<400> 154
tgacagagac tcttgggatg acgcactgct gcatcaaccc catcatctat gcctttgtcg 60

gggagaagtt cagaaactac ctcttagtct tcttccaaaa gcacattgcc aaacgcttct 120

gcaaatgctg ttctattttc cagcaagagg ctcccgagcg agcaagctca gtttacaccc 180

gatccactgg ggagcaggaa atatctgtgg gcttgtgaca cggactcaag tgggctggtg 240

acccagtcag agttgtgcac atggcttagt tttcatacac agcctgggct gggggtgggg 300

tgggagaggt ctttttaaa aggaagttac tgttatagag ggtctaagat tcatccattt 360

atttggcatc tgtttaaagt agattagatc ttttaagccc atcaattata gaaagccaaa 420

tcaaaatatg ttgatgaaaa atagcaacct ttttatctcc ccttcacatg catcaagtta 480

ttgacaaact ctcccttcac tccgaaagtt ccttatgtat atttaaaaga aagcctcaga 540

gaattgctga ttcttgagtt tagtgatctg aacagaaata ccaaaattat ttcagaaatg 600

tacaactttt tacctagtac aaggcaacat ataggttgta aatgtgttta aaacaggtct 660

ttgtcttgct atggggagaa aagacatgaa tatgattagt aaagaaatga cacttttcat 720

gtgtgatttc ccctccaagg tatggttaat aagtttcact gacttagaac caggcgagag 780

acttgtggcc tgggagagct ggggaagctt cttaaatgag aaggaatttg agttggatca 840

tctattgctg gcaaagacag aagcctcact gcaagcactg catgggcaag cttggctgta 900

gaaggagaca gagctggttg ggaagacatg gggaggaagg acaaggctag atcatgaaga 960

accttgacgg cattgctccg tctaagtcat gagctgagca gggagatcct ggttggtgtt 1020

gcagaaggtt tactctgtgg ccaaaggagg gtcaggaagg atgagcattt agggcaagga 1080

gaccaccaac agccctcagg tcagggtgag gatggcctct gctaagctca aggcgtgagg 1140

atgggaagga gggaggtatt cgtaaggatg ggaaggaggg aggtattcgt gcagcatatg 1200

aggatgcaga gtcagcagaa ctg 1223

<210> 155
<211> 215
<212> DNA
<213> Artificial Sequence

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

<400> 155
gaacgctgac gtcatcaacc cgctccaagg aatcgcgggc ccagtgtcac taggcgggaa 60

cacccagcgc gcgtgcgccc tggcaggaag atggctgtga gggacagggg agtggcgccc 120

tgcaatattt gcatgtcgct atgtgttctg ggaaatcacc ataaacgtga aatgtctttg 180

gatttgggaa tcttataagt tctgtatgag accac 215

<210> 156
<211> 141
<212> DNA
<213> Artificial Sequence

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

<400> 156
cctgcaggca gctgcgcgct cgctcgctca cctaggccgc ccgggcaaag cccgggcgtc 60

gggcgacctt tggtcgcccg gcctaggtga gcgagcgagc gcgcagagag ggagtggcca 120

actccatcac taggggttcc t 141

<210> 157
<211> 19
<212> DNA
<213> Artificial Sequence

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

<400> 157
gcgcgctcgc tcgctcacc 19

<210> 158
<211> 22
<212> DNA
<213> Artificial Sequence

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

<400> 158
ctaggtgagc gagcgagcgc gc 22

<210> 159
<211> 75
<212> DNA
<213> Artificial Sequence

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

<400> 159
cctgcaggac tgaggccgcc cgggcaaagc ccgggcgtcg ggcgaccttt ggtcgcccgg 60

cctcagtcct gcagg 75

<210> 160
<211> 130
<212> DNA
<213> Artificial Sequence

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

<400> 160
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagt 60

gcgggcgacc aaaggtcgcc cgacgcccgg gcgcactcag tgagcgagcg agcgcgcagc 120

tgcctgcagg 130

<210> 161
<211> 142
<212> DNA
<213> Artificial Sequence

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

<400> 161
cctgcaggca gctgcgcgct cgctcgctcc ctaggactga ggccgcccgg gcgtcgggcg 60

acctttggtc gcccggcctc agtcctaggg agcgagcgag cgcgcagaga gggagtggcc 120

aactccatca ctaggggttc ct 142

<210> 162
<211> 80
<212> DNA
<213> Artificial Sequence

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

<400> 162
gcgcgctcgc tcgctcactg agtgcgggcg accaaaggtc gcccgacgcc cgggcgcact 60

cagtgagcga gcgagcgcgc 80

<210> 163
<211> 21
<212> DNA
<213> Artificial Sequence

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

<400> 163
gcgcgctcgc tcgctcactg a 21

<210> 164
<211> 18
<212> DNA
<213> Artificial Sequence

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

<400> 164
gtgagcgagc gagcgcgc 18

<210> 165
<211> 89
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 165
gcgcgctcgc tcgctcactg aggccgcccg ggcaaagccc gggcgtcggg cgactttgtc 60

gcccggcctc agtgagcgag cgagcgcgc 89

<210> 166
<211> 89
<212> DNA
<213> Artificial Sequence

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

<400> 166
gcgcgctcgc tcgctcactg aggccgggcg acaaagtcgc ccgacgcccg ggctttgccc 60

gggcggcctc agtgagcgag cgagcgcgc 89

<210> 167
<211> 87
<212> DNA
<213> Artificial Sequence

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

<400> 167
gcgcgctcgc tcgctcactg aggccgcccg ggcaaagccc gggcgtcggg cgattttcgc 60

ccggcctcag tgagcgagcg agcgcgc 87

<210> 168
<211> 87
<212> DNA
<213> Artificial Sequence

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

<400> 168
gcgcgctcgc tcgctcactg aggccgggcg aaaatcgccc gacgcccggg ctttgcccgg 60

gcggcctcag tgagcgagcg agcgcgc 87

<210> 169
<211> 85
<212> DNA
<213> Artificial Sequence

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

<400> 169
gcgcgctcgc tcgctcactg aggccgcccg ggcaaagccc gggcgtcggg cgtttcgccc 60

ggcctcagtg agcgagcgag cgcgc 85

<210> 170
<211> 85
<212> DNA
<213> Artificial Sequence

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

<400> 170
gcgcgctcgc tcgctcactg aggccgggcg aaacgcccga cgcccgggct ttgcccgggc 60

ggcctcagtg agcgagcgag cgcgc 85

<210> 171
<211> 89
<212> DNA
<213> Artificial Sequence

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

<400> 171
gcgcgctcgc tcgctcactg aggccgcccg ggaaacccgg gcgtcgggcg acctttggtc 60

gcccggcctc agtgagcgag cgagcgcgc 89

<210> 172

<211> 89
<212> DNA
<213> Artificial Sequence

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

<400> 172
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgcc cgggtttccc 60

gggcggcctc agtgagcgag cgagcgcgc 89

<210> 173
<211> 87
<212> DNA
<213> Artificial Sequence

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

<400> 173
gcgcgctcgc tcgctcactg aggccgcccg gaaaccgggc gtcgggcgac ctttggtcgc 60

ccggcctcag tgagcgagcg agcgcgc 87

<210> 174
<211> 87
<212> DNA
<213> Artificial Sequence

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

<400> 174
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgcc cggtttccgg 60

gcggcctcag tgagcgagcg agcgcgc 87

<210> 175
<211> 85
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 175
gcgcgctcgc tcgctcactg aggccgcccg aaacgggcgt cgggcgacct ttggtcgccc 60

ggcctcagtg agcgagcgag cgcgc 85

<210> 176
<211> 85
<212> DNA
<213> Artificial Sequence

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

<400> 176
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgcc cgtttcgggc 60

ggcctcagtg agcgagcgag cgcgc 85

<210> 177
<211> 83
<212> DNA
<213> Artificial Sequence

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

<400> 177
gcgcgctcgc tcgctcactg aggccgccca aagggcgtcg ggcgaccttt ggtcgcccgg 60

cctcagtgag cgagcgagcg cgc 83

<210> 178
<211> 83
<212> DNA
<213> Artificial Sequence

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

<400> 178
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgcc ctttgggcgg 60

cctcagtgag cgagcgagcg cgc 83

<210> 179
<211> 81
<212> DNA
<213> Artificial Sequence

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

<400> 179
gcgcgctcgc tcgctcactg aggccgccaa aggcgtcggg cgacctttgg tcgcccggcc 60

tcagtgagcg agcgagcgcg c 81

<210> 180
<211> 81
<212> DNA
<213> Artificial Sequence

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

<400> 180
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgcc tttggcggcc 60

tcagtgagcg agcgagcgcg c 81

<210> 181
<211> 79
<212> DNA
<213> Artificial Sequence

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

<400> 181
gcgcgctcgc tcgctcactg aggccgcaaa gcgtcgggcg acctttggtc gcccggcctc 60

agtgagcgag cgagcgcgc 79

<210> 182

<211> 79
<212> DNA
<213> Artificial Sequence

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

<400> 182
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgct ttgcggcctc 60

agtgagcgag cgagcgcgc 79

<210> 183
<211> 81
<212> DNA
<213> Artificial Sequence

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

<400> 183
ctgcgcgctc gctcgctcac tgaggccgaa acgtcgggcg acctttggtc gcccggcctc 60

agtgagcgag cgagcgcgca g 81

<210> 184
<211> 81
<212> DNA
<213> Artificial Sequence

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

<400> 184
ctgcgcgctc gctcgctcac tgaggccggg cgaccaaagg tcgcccgacg tttcggcctc 60

agtgagcgag cgagcgcgca g 81

<210> 185
<211> 72
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 185
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacggc ctcagtgagc 60

gagcgagcgc gc 72

<210> 186
<211> 80
<212> DNA
<213> Artificial Sequence

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

<400> 186
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgcc cgggcggcct 60

cagtgagcga gcgagcgcgc 80

<210> 187
<211> 79
<212> DNA
<213> Artificial Sequence

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

<400> 187
gcgcgctcgc tcgctcactg aggcgcccgg gcgtcgggcg acctttggtc gcccggcctc 60

agtgagcgag cgagcgcgc 79