

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

aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60

ccgggcgacc aaaggtcgcc cgacgcccg gctttgccc ggccggcctca gtgagcgagc 120

gagcgcgag ctgcctgcag g 141

<210> 2

<211> 141

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 2

cctgcaggca gctgcgcgt cgctcgctca ctgaggccgc ccgggcaaag cccgggcgtc 60

gggcgacctt tggtcgccc 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

aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60

ccgggcgacc aaaggtcgcc cgaccccgg gcggcctcag tgagcgagcg agcgcgagc 120

tgctgcagg 130

<210> 4

<211> 130

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 4

cctgcaggca gctgcgcgt cgctcgctca ctgaggccgc ccgggcgtcg ggcgaccttt 60

ggtcgcccgg cctcagtgag cgagcgagcg cgagagagg gaggggccaa 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 ctgggtgggg cctgcggacc aaaggtccgc 60

agacggcaga ggtctctctt 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 ctactcggc cctggagacc aaaggtctcc 60

agactgccgg cctctggccg gcagggccga gtgagtgagc gagcgcgcat agaggggagt 120

gccaact 127

<210> 8

<211> 166

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 8

tccccctgt cgcgttcgct cgctcgctgg ctggtttggg ggggcgacgg ccagagggcc 60

gtcgtctggc agctctttga gctgccaccc ccccaaacga gccagcgagc gagcgaacgc 120
gacagggggg agagtgccac actctcaagc aaggggggtt tgtaag 166

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

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

<400> 9
ttgccactc cctctaattg gcgctcgctc gctcgggtggg gcctgcggac caaagggtccg 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 ccactccct 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 gcgagcgcg atagaggag	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
cgcacccccca aacgagccag cgagcgagcg aacgcgacag ggggga	166

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

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

<400> 14

atacccttag tgatggagtt gccactccc tctatgcgcg ctgctcgct cggtagggcc	60
ggcagaggag acctctgccg tctgcggacc tttagtccgc agggcccacc 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	
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg	60
cgcacgcccg gggtttcccg gcggcctcag tgagcgagcg agcgcgcagc tgcctgcagg	120

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

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

<400> 16	
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg	60
ccgacgcccg ggctttgccc gggcggcctc agtgagcgag cgagcgcga gctgcctgca	120
gg	122

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

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

<400> 17	
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg	60

ccgggcgacc aaaggtcgcc cgacgcccgg ggcctcagt gagcgagcga gcgcgcagct 120
gcctgcagg 129

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

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

<400> 18
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60
ctttgcctca gtgagcgagc gagcgcgag ctgcctgcag g 101

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

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

<400> 19
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60
ccgggcgaca aagtcgccc acgcccgggc ttgcccggg 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
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60

ccgggcgaaa atcgcccgac gcccgggcctt 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
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60
ccgggcgaaa cgcccgcgc 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
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60
ccgggcaaag cccgacgcc 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
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60

ccgggcgacc aaaggtcgcc cgacgcccg 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
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60
ccgggcgacc aaaggtcgcc cgacgcccg 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
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60
ccgggcgacc aaaggtcgcc cgacgcccg ttcgggcggc ctcaagtgagc gagcgagcgc 120
gcagctgcct gcagg 135

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

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

<400> 26

aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg	60
ccgggcgacc aaaggtcgcc cgacgccctt tgggcggcct cagtgcgagc ggcgagcgcg	120
agctgcctgc agg	133

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

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

<400> 27	
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg	60
ccgggcgacc aaaggtcgcc cgacgccctt ggcggcctca gtgagcgagc gagcgcgagc	120
ctgcctgcag g	131

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

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

<400> 28	
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg	60
ccgggcgacc aaaggtcgcc cgacgctttg cggcctcagt gagcgagcga ggcgcgagct	120
gcctgcagg	129

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

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

<400> 29
 aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 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
 aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 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
 aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60
 ccgggcgacc aaaggtcgcc cgacgcccgg gcggcctcag tgagcgagcg agcgcgagc 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
cctcagttag cgagcgagcg cgagagagg 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 cgcgagaga 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 cgcgagaga 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 ctcaagtgagc 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 ctcaagtgagc 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
gggcgttttcg cccggcctca gtgagcgagc gagcgcgcag agagggagtg gccaaactcca	120
tcactagggg ttctt	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
gggcctttgcc 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 ctca gtgagc 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 cgcccgccct cagtgcgcga 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 gagcgcgag agagggagtg gccaaactcca 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
tggtcgcccgc 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
 aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 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

aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60

ccgcccgggc aaagcccggg cgtcgggcga cctttggtcg cccggcctca gtgagcgagc 120

gagcgcgag agagggagtg gccaaactcca 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

cgagagaga 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 tcagttagcg 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 tcagttagcg agcgagcgcg c 91

 <210> 56

 <400> 56
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 <210> 57

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 <400> 58
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 <210> 59

<400> 59
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<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

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ttaaatgtta ataaaacaaa atggtggggc aatcatttac attttaggg atatgtaatt	120
actagttcag gtgtattgcc acaagacaaa catgttaaga aactttcccg ttatttacgc	180
tctgttcctg ttaatcaacc tctggattac aaaatttgtg aaagattgac tgatattctt	240
aactatgttg ctctttttac gctgtgtgga tatgctgctt tatagcctct gtatctagct	300
attgcttccc gtacggcttt cgttttctcc tccttgtata aatcctgggt gctgtctctt	360
ttagaggagt tgtggcccg tgtccgtcaa cgtggcgtgg tgtgctctgt gtttgctgac	420
gcaaccccca ctggctgggg cattgccacc acctgtcaac tcctttctgg gactttcgct	480
ttccccctcc cgatgccac ggcagaactc atgccgcct 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 cgatttgtct	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 ccgccaacg acccccgcgc attgacgtca ataatgacgt atgttcccat	300
agtaacgcca atagggactt tccattgacg tcaatgggtg gagtatttac ggtaaactgc	360
ccacttggca gtacatcaag tgtatcatat gccaaagtccg cccctattg acgtcaatga	420
cggtaaattg cccgcctggc attatgcca gtacatgacc ttacgggact ttcctacttg	480
gcagtacatc tacgtattag tcatcgctat taccatgggtc gaggtgagcc ccacgttctg	540
cttcactctc cccatctccc cccctcccc accccaatt ttgtatttat ttatTTTTTA	600
attatTTTgt gcagcgatgg gggcgggggg gggggggggg cgcgcgccag gcggggcggg	660
gcggggcgag gggcggggcg gggcgaggcg gagagggtgc gcggcgacca atcagagcgg	720
cgcgctccga aagtttcctt ttatggcgag gcggcgggcg cgcgggccct ataaaaagcg	780
aagcgcgcg gcggcgggag tcgctgcgac gctgccttcg ccccggtgcc cgctccgccg	840
ccgcctcgcg ccggccgccc cggctctgac tgaccgcgtt actccacag gtgagcgggc	900
gggacggccc ttctcctccg ggctgtaatt agcgcttggg ttaatgacgg cttgtttctt	960
ttctgtggct gcgtgaaagc cttgaggggc tccgggaggg ccctttgtgc gggggggagc	1020
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ccggcggctg tgagcgctgc gggcgcgggc cggggctttg tgcgctccgc agtgtgcgcg	1140
aggggagcgc ggccgggggc ggtgccccgc ggtgcggggg gggctgcgag gggaacaaag	1200
gctgcgtgcg ggggtgtgtc gtgggggggt gagcaggggg tgtgggcgcg gcggtcgggc	1260
tgtaaccccc ccctgcaccc ccctccccga gttgctgagc acggcccggc ttcgggtgcg	1320
gggctccgta cggggcggtg cgcggggctc gccgtgccgg gcgggggggt gcggcaggtg	1380
gggggtgccg gcggggcggg gccgcctcgg gccggggagg gctcggggga ggggcgcggc	1440
ggcccccgga gcgccggcg ctgtcgaggc gcggcgagcc gcagccattg ctttttatgg	1500
taatcgctgc agagggcga gggacttcct ttgtcccaa tctgtgcgga gccgaaatct	1560
gggaggcgcc gccgcacccc ctctagcggg cgcggggcga agcgggtgcg gcgccgcagg	1620
aaggaaatgg gcggggaggg cttcgtgcg tcgccgcgc gccgtcccct tctccctctc	1680

cagcctcggg gctgtccgcg gggggacggc tgccttcggg ggggacgggg cagggcgggg	1740
ttcggcttct ggcgtgtgac cggcggctct agagcctctg ctaaccatgt tttagccttc	1800
ttctttttcc tacagctcct gggcaacgtg ctggttattg tgctgtctca tcatttgctg	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 aactgaaca aacttcagcc	120
tactcatgtc ctaaaatgg gcaaacattg caagcagcaa acagcaaaca cacagccctc	180
cctgcctgct gaccttggag ctggggcaga ggtcagagac ctctctgggc ccatgccacc	240
tccaacatcc actcgacccc ttggaatttc ggtggagagg agcagagggt gtcctggcgt	300
ggtttaggta gtgtgagagg gtccgggttc aaaaccactt gctgggtggg gagtcgtcag	360
taagtggcta tgccccgacc ccgaagcctg tttccccatc tgtacaatgg aaatgataaa	420
gacgccccatc tgatagggtt tttgtggcaa ataaacattt ggtttttttg ttttgttttg	480
ttttgttttt tgagatggag gtttgcctctg tcgcccaggc tggagtgcag tgacacaatc	540
tcatctcacc acaaccttcc cctgcctcag cctcccaagt agctgggatt acaagcatgt	600
gccaccacac ctggctaatt ttctatTTTT agtagagacg ggtttctcca tgttggtcag	660
cctcagcctc ccaagtaact gggattacag gcctgtgcca ccacaccgg ctaattTTTT	720
ctatTTTTga cagggacggg gtttcacat gttggtcagg ctggtctaga ggtaccggat	780
cttgctacca gtggaacagc cactaaggat tctgcagtga gagcagaggg ccagctaagt	840
ggtactctcc cagagactgt ctgactcacg ccaccccctc caccttggac acaggacgct	900

gtggtttctg agccaggtag aatgactcct ttcggtaagt gcagtggaag ctgtacactg	960
cccaggcaaa gcgtccgggc agcgtaggcg ggcgactcag atcccagcca gtggacttag	1020
cccctgtttg ctctccgat aactgggggtg accttggtta atattcacca gcagcctccc	1080
ccgttgcccc tctggatcca ctgcttaaata acggacgagg acagggccct gtctcctcag	1140
cttcaggcac caccactgac ctgggacagt gaatccggac tctaaggtaa atataaaatt	1200
tttaagtgtg 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 ctacagaggca cacaggagtt tctgggctca ccctgcccc ttccaacccc	60
tcagttccca tctccagca gctgtttgtg tgctgcctct gaagtccaca ctgaacaaac	120
ttcagcctac tcatgtccct aaaatgggca aacattgcaa gcagcaaaca gcaaacacac	180
agccctccct gcctgctgac cttggagctg gggcagagggt cagagacctc tctgggccca	240
tgccacctcc aacatccact cgaccccttg gaatttcggt ggagaggagc agaggttgtc	300
ctggcgtggt ttaggtagtg tgagagggtc cgggttcaaa accacttgct ggggtggggag	360
tcgtcagtaa gtggctatgc cccgaccccg aagcctgttt ccccatctgt acaatggaaa	420
tgataaagac gcccatctga tagggttttt gtggcaaata aacatttggt ttttttgttt	480
tgttttgttt tgttttttga gatggagggt tgctctgtcg cccaggctgg agtgcagtga	540
cacaatctca tctcaccaca accttcccct gcctcagcct cccaagtagc tgggattaca	600
agcatgtgcc accacacctg gctaattttc tatttttagt agagacgggt ttctccatgt	660
tggtcagcct cagcctccca agtaactggg attacaggcc tgtgccacca caccggcta	720

atTTTTtcta tTTTTgacag ggacgggggtt tcaccatggt ggTcaggctg gtctagaggt	780
accggatctt gctaccagtG gaacagccac taaggattct gcagtGagag cagagggcca	840
gctaagtggT actctcccag agactgtctg actcacgcca cccctccac 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 ctcttttcgg taagtgcagt ggaagctgta cactgcccag	240
gcaaagcgtc cgggcagcgt aggcgggcga ctcagatccc agccagtgga cttagcccct	300
gtttgtctct ccgataactg gggtgacctt ggTTaatatt caccagcagc ctccccggtt	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 cggcggagag gagcagaggt tgtcctggcg tggtttaggt	180
agtgtgagag gggaatgact cctttcggta agtgcagtgg aagctgtaca ctgcccaggc	240
aaagcgtccg ggcagcgtag gcgggcgact cagatcccag ccagtggact tagcccctgt	300
ttgctcctcc gataactggg gtgaccttgg ttaatatcca ccagcagcct cccccgttgc	360
ccctctggat ccactgctta aatacggacg aggacactcg agggccctgt ctctcagct	420
tcaggcacca ccactgacct gggacagtga atccggacat cgattctaag gtaaataata	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 cggcgcctag agaaggtggc gcggggtaaa ctgggaaagt	120
gatgtcgtgt actggctccg cctttttccc gaggggtgggg gagaaccgta tataagtgca	180
gtagtcgccg tgaacgttct ttttcgcaac gggtttgccg ccagaacaca ggtaagtgcc	240
gtgtgtgggt cccgcgggcc tggcctcttt acgggttatg gcccttgctg gccttgaatt	300
acttccacct ggctgcagta cgtgattctt gatcccgagc ttcgggttgg aagtgggtgg	360

gagagttcga ggccttgccg ttaaggagcc ccttcgcctc gtgcttgagt tgaggcctgg	420
cctgggcgct ggggcccgcg cgtgcgaatc tgggtggcacc ttcgcgcctg tctcgctgct	480
ttcgataagt ctctagccat ttaaaatctt tgatgacctg ctgcgacgct ttttttctgg	540
caagatagtc ttgtaaatgc gggccaagat ctgcacactg gtatttcggt ttttggggcc	600
gcgggcgccg acggggcccg tgcgtcccag cgcacatggt cggcgaggcg gggcctgcga	660
gcgcggccac cgagaatcgg acgggggtag tctcaagctg gccggcctgc tctggtgcct	720
ggtctcgcgc cgccgtgtat cgccccgcc tgggaggcaa ggctggcccg gtcggcacca	780
gttgctgag cggaagatg gccgcttccc ggccctgctg caggagctc aaaatggagg	840
acgcggcgct cgggagagcg ggcgggtgag tcacccacac aaaggaaaag ggcctttccg	900
tcctcagccg tcgcttcatg tgactccacg gaggaccggg cgccgtccag gcacctgat	960
tagttctcga gcttttggag tacgtcgtct ttaggttggg gggaggggtt ttatgcgatg	1020
gagtttcccc aactgagtg ggtggagact gaagttaggc cagcttggca cttgatgtaa	1080
ttctccttgg aatttgcct ttttgagttt ggatcttggg 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 ttatcttggt	60
cgccatccgg ttggtataaa tagacgttca tggttggttt tgtttcagtt gcaagttggc	120
tgccgagcgc 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
tgcattctca ttagtcagca accatagtcc cgcccctaac tccgcccata ccgcccctaa	180
ctccgcccag ttccgcccata tctccgcccc atggctgact aaaaaaaaa 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 tgtagagag	60
ataattggaa ttaatttgac tgtaaacaca aagatattag tacaaaatac gtgacgtaga	120
aagtaataat ttcttgggta gtttgcagtt ttaaaattat gttttaaaat ggactatcat	180
atgcttaccg taacttgaaa gtatttcgat ttcttggcct 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 gtcacatcaacc cgctccaagg aatcgcgggc ccagtgtcac taggcgggaa 60
caccagcgc 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
tgaccttggg gctggggcag aggtcagaga cctctctggg cccatgccac ctccaacatc 120
cactcgaccc cttggaattt ttcggtggag aggagcagag gttgtcctgg cgtgggttag 180
gtagtgtgag aggggaatga ctcttttcgg taagtgcagt ggaagctgta cactgcccag 240
gcaaagcgtc cgggcagcgt aggcgggcga ctcatatccc agccagtggg cttagcccct 300
gtttgctcct ccgataactg ggggtgacctt ggtaaatatt caccagcagc ctccccggtt 360
gcccctctgg atccactgct taaatacggg cgaggacagg gccctgtctc ctcatgttca 420
ggcaccacca ctgacctggg acagtgaatc cggactctaa ggtaaatata aaatTTTTaa 480
gtgtataatg tggttaaacta ctgattctaa ttgtttctct ctttttagatt ccaacctttg 540
gaactg 546

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

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

<400> 83
tagtaatcaa ttacgggggtc attagttcat agcccatata tggagttccg cgttacataa 60
cttacggtaa atggcccgcc tggctgaccg cccaacgacc cccgcccatt gacgtcaata 120
atgacgtatg ttcccatagt aacgccaata gggactttcc attgacgtca atgggtggag 180
tatttacggt aaactgcccc 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 ccattgacg 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 tggataaat 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 gatcgcttc gcaaggggag agcccaggga 60

ccgtccctaa attctcacag acccaaatcc ctgtagccgc cccacgacag cgcgaggagc	120
atgcgcccag ggctgagcgc gggtagatca gagcacacaa gctcacagtc cccggcgggtg	180
gggggagggg cgcgctgagc gggggccagg gagctggcgc ggggcaaact gggaaagtgg	240
tgtcgtgtgc tggctccgcc ctcttcccga gggtagggga gaacggtata taagtgcggt	300
agtcgccttg gacgttcttt ttcgcaacgg gtttgccgtc agaacgcagg tgagtggcgg	360
gtgtggcttc cgcgggcccc ggagctggag ccctgctctg agcgggcccgg gctgatatgc	420
gagtgtcgtc cgcagggttt agctgtgagc attcccactt cgagtggcgg gcggtgcggg	480
ggtgagagtg cgaggcctag cggcaacccc gtagcctcgc ctcgtgtccg gcttgaggcc	540
tagcgtggtg tccgccgccg cgtgccactc cggccgcact atgcgttttt tgccttgct	600
gccctcgatt gccttcagc agcatgggct aacaaaggga ggggtgtgggg ctcactctta	660
aggagcccat gaagcttacg ttggatagga atggaagggc aggaggggcg actggggccc	720
gcccccttc ggagcacatg tccgaccca cctggatggg gcgaggcctg tggctttccg	780
aagcaatcgg gcgtgagttt agcctacctg ggccatgtgg ccctagcact gggcacggtc	840
tggcctggcg gtgccgcgtt cccttgccctc ccaacaaggg tgaggccgtc ccgccggca	900
ccagttgctt gcgcggaaag atggccgctc ccggggccct gttgcaagga gctcaaaatg	960
gaggacgcgg cagcccgggtg gagcgggcgg gtgagtcacc cacacaaagg aagagggcct	1020
tgccccctgc cggccgctgc ttcctgtgac cccgtggtct atcgccgca tagtcacctc	1080
gggcttctct tgagcaccgc tcgtcgcggc ggggggaggg gatctaattg cgttggagtt	1140
tgttcacatt tggtaggtgg agactagtca ggccagcctg gcgctggaag tcattcttgg	1200
aatttgcccc tttagatttg 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 gggggagggtg 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 aggccgcccc ggaaacccgg gcgtgcgccct cagtgcgcga 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 cagtgcgcga 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 ctcaagtgagc 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 aggccggggc accaaaggct gcccgacggc ctcaagtgagc 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 ctcaagtgagc 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 ctcaagtgagc 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
 cctcagttag 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
 cctcagttag 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 accaaaggct gcccgacgtt tcggcctcag 60

tgagcgagcg agcgcg 77

<210> 111

<211> 51

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 111

gcgcgctcgc tcgctcactg aggcaaagcc tcagtgcgcg 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 tcagtgcgcg 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 aggccggggcg accaaaggct 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 gcgtcggggcg acctttggct 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 aggccggggcg accaaaggct 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 ttatcttggt 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 accaaaggct gcccgacggc ctcaagtgagc 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 ctcaactgagg 60
ccgggcgacc aaaggctgcc 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 ttataaaat ttggaacta	240
aacgggtacg atccccaata tgcggcttcc gtctttctgg gatgggccac gaaaaagttc	300
ggcaagagga acaccatctg gctgtttggg cctgcaacta ccgggaagac caacatcgcg	360
gaggccatag cccacactgt gcccttctac gggcgcgtaa actggaccaa tgagaacttt	420
cccttcaacg actgtgtcga caagatggtg atctgggtggg aggaggggaa gatgaccgcc	480
aaggtcgtgg agtcggccaa agccattctc ggaggaagca aggtgcgcgt ggaccagaaa	540
tgcaagtcct cggcccagat agaccgact cccgtgatcg tcacctcaa caccaacatg	600
tgcgccgtga ttgacgggaa ctcaacgacc ttcgaacacc agcagccgtt gcaagaccgg	660
atgttcaa at ttgaactcac ccgccgtctg gatcatgact ttgggaaggt caccaagcag	720
gaagtcaaag actttttccg gtgggcaaag gatcacgtgg ttgaggtgga gcatgaattc	780
tacgtcaaaa aggggtggagc caagaaaaga cccgccccca gtgacgcaga tataagtgag	840
cccaaacggg tgcgcgagtc agttgcgcag ccatcgacgt cagacgcgga agcttcgatc	900
aactacgcag acaggtacca aaacaaatgt tctcgtcacg tgggcatgaa tctgatgctg	960
tttccttgca gacaatgcga gagaatgaat cagaattcaa atatctgctt cactcacgga	1020
cagaaagact gtttagagtg ctttcccggtg tcagaatctc aaccggtttc tgtcgtcaaa	1080
aaggcgtatc agaaactgtg ctacattcat catatcatgg gaaaggtgcc agacgcttgc	1140
actgcctgcg atctgggtcaa 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

atgccgggggt tttacgagat tgtgattaag gtccccagcg accttgacga gcatctgccc	60
ggcattttctg acagcttttgt gaactgggtg gccgagaagg aatgggagtt gccgccagat	120
tctgacatgg atctgaatct gattgagcag gcacccctga ccgtggccga gaagctgcag	180
cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct tttctttgtg	240
caatttgaga agggagagag ctacttcac atgcacgtgc tcgtggaaac caccggggtg	300
aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat tcagagaatt	360
taccgcggga tcgagccgac tttgccaaac tggttcgcg tcacaaagac cagaaatggc	420
gccggaggcg ggaacaaggt ggtggatgag tgctacatcc ccaattactt gctcccaaa	480
accagcctg agctccagtg ggctggact aatatggaac agtatttaag cgcctgtttg	540
aatctcacgg agcgtaaacg gttggtggcg cagcatctga cgcacgtgtc gcagacgcag	600
gagcagaaca aagagaatca gaatcccaat tctgatgcgc cggatgatcag atcaaaaact	660
tcagccaggt acatggagct ggtcgggtgg ctctggaca aggggattac ctcgagaaag	720
cagtggatcc aggaggacca ggcctcatac atctccttca atgcggcctc caactcgcg	780
tcccaaatca aggctgcctt ggacaatgcg ggaaagatta tgagcctgac taaaaccgcc	840
cccgactacc tgggtgggcca gcagcccgtg gaggacattt ccagcaatcg gatttataaa	900
attttggaac taaacgggta cgatcccaa tatgcggctt ccgtctttct gggatgggcc	960
acgaaaaagt tcggcaagag gaacaccatc tggctgtttg ggcttgcaac taccgggaag	1020
accaacatcg cggaggccat agcccacact gtgcccttct acgggtgcgt aaactggacc	1080
aatgagaact ttcccttcaa cgactgtgtc gacaagatgg tgatctggtg ggaggagggg	1140
aagatgaccg ccaaggctgt ggagtcggcc aaagccattc tcggaggaag caaggtgcgc	1200
gtggaccaga aatgcaagtc ctcgccccag atagaccga ctcccgtgat cgtcacctcc	1260
aacaccaaca tgtgcgccgt gattgacggg aactcaacga cttcgaaca ccagcagccg	1320
ttgcaagacc ggatgttcaa atttgaactc acccgccgtc tggatcatga ctttgggaag	1380
gtcaccaagc aggaagtcaa agactttttc cgggtgggcaa aggatcacgt ggttgaggtg	1440

gagcatgaat tctacgtcaa aaaggggtgga gccaagaaaa gacccgcccc cagtgcgca	1500
gatataagtg agcccaaacg ggtgcgcgag tcagttgcgc agccatcgac gtcagacgcg	1560
gaagcttcga tcaactacgc agacaggtac caaaacaaat gttctcgtca cgtgggcatg	1620
aatctgatgc tgtttccctg cagacaatgc gagagaatga atcagaattc aaatatctgc	1680
ttcactcacg gacagaaaga ctgttttagag tgctttcccg tgtcagaatc tcaaccggtt	1740
tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat gggaaagggtg	1800
ccagacgctt gcactgcctg cgatctggtc aatgtggatt tggatgactg catctttgaa	1860
caataaatga tttaaatacag 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 atggcgggggt tttacgagat tgtgattaag gtccccagcg accttgacgg	60
gcatctgccc ggcatttctg acagctttgt gaactgggtg gccgagaagg aatgggagtt	120
gccgccagat tctgacatgg atctgaatct gattgagcag gcaccctga ccgtggccga	180
gaagctgcag cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct	240
tttctttgtg caatttgaga agggagagag ctacttccac atgcacgtgc tcgtggaaac	300
caccgggggtg aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat	360
tcagagaatt taccgcggga tcgagccgac tttgccaac tggttcgcgg tcacaaagac	420
cagaaatggc gccggaggcg ggaacaaggt ggtggatgag tgctacatcc ccaattactt	480
gctcccaaaa acccagcctg agctccagtg ggcgtggact aatatggaac agtatattaag	540
cgcctgtttg aatctcacgg agcgtaaacg gttggtggcg cagcatctga cgcacgtgtc	600
gcagacgcag gagcagaaca aagagaatca gaatcccaat tctgatgcgc cggtgatcag	660

atcaaaaact tcagccaggt acatggagct ggtcgggtgg ctctgggaca aggggattac	720
ctcggagaag cagtggatcc aggaggacca ggcctcatat atctccttca atgcggcctc	780
caactcgcgg tcccaaatca aggctgcctt ggacaatgcg ggaaagatta tgagcctgac	840
taaaaccgcc cccgactacc tgggtgggcca gcagcccgtg gaggacattt ccagcaatcg	900
gatttataaa attttggaa taaacgggta cgatcccaa tatgcggctt ccgtctttct	960
gggatgggcc acgaaaaagt tcggcaagag gaacaccatc tggctgtttg ggcctgcaac	1020
taccgggaag accaaccatcg cggaggccat agcccacact gtgcccttct acgggtgcgt	1080
aaactggacc aatgagaact ttcccttcaa cgactgtgtc gacaagatgg tgatctgggtg	1140
ggaggagggg aagatgaccg ccaaggctcg ggagtcggcc aaagccattc tcggaggaag	1200
caaggtgcgc gtggaccaga aatgcaagtc ctcggcccag atagaccga ctcccgtgat	1260
cgtcacctcc aacaccaaca tgtgcgccgt gattgacggg aactcaacga ccttcgaaca	1320
ccagcagccg ttgcaagacc ggatgttcaa atttgaactc acccgccgtc tggatcatga	1380
ctttgggaag gtcaccaagc aggaagtcaa agactttttc cgggtgggcaa aggatcacgt	1440
ggttgagggtg gagcatgaat tctacgtcaa aaagggtgga gccaaagaaa gacccgcccc	1500
cagtgcgcga gatataagtg agcccaaacg ggtgcgcgag tcagttgcgc agccatcgac	1560
gtcagacgcg gaagcttcga tcaactacgc agacaggtac caaaacaaat gttctcgtca	1620
cgtgggcatg aatctgatgc tgtttccctg cagacaatgc gagagaatga atcagaattc	1680
aaatatctgc ttcactcacg gacagaaaga ctgttttagag tgctttcccg tgtcagaatc	1740
tcaaccggtt tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat	1800
gggaaagggtg ccagacgctt gcactgcctg cgatctgggtc 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 ctctttcaat gcggcctcca actcgcggtc ccaaatacaag	120
gctgccttgg acaatgcggg aaagattatg agcctgacta aaaccgcccc cgactacctg	180
gtgggccagc agcccgtgga ggacatttcc agcaatcgga ttataaaaat ttggaacta	240
aacgggtacg atccccaata tgcggcttcc gtctttcttg gatgggccac gaaaaagtgc	300
ggcaagagga acaccatctg gctgtttggg cctgcaacta ccgggaagac caacatcgcg	360
gaggccatag cccacactgt gcccttctac gggcgcgtta actggacca tgagaacttt	420
cccttcaacg actgtgtcga caagatgggt atctgggtggg aggaggggaa gatgaccgcc	480
aaggtcgtgg agtcggccaa agccattctc ggaggaagca aggtgcgcgt ggaccagaaa	540
tgcaagtcct cggcccagat agacccgact cccgtgatcg tcacctcaa caccaacatg	600
tgcgccgtga ttgacgggaa ctcaacgacc ttcgaacacc agcagccgtt gcaagaccgg	660
atgttcaa at ttgaactcac ccgccgtctg gatcatgact ttgggaaggt caccaagcag	720
gaagtcaaag actttttccg gtgggcaaag gatcacgtgg ttgaggtgga gcatgaattc	780
tacgtcaaaa aggggtggagc caagaaaaga cccgccccca gtgacgcaga tataagttag	840
cccaaacggg tgcgcgagtc agttgcgcag ccatcgacgt cagacgcgga agcttcgatc	900
aactacgcag accgctacca aaacaaatgt tctcgtcacg tgggcatgaa tctgatgctg	960
tttccctgca gacaatgcga gagaatgaat cagaattcaa atatctgctt cactcacgga	1020
cagaaagact gtttagagtg ctttcccggtg tcagaatctc aaccggtttc tgctgtcaaa	1080
aaggcgtatc agaaactgtg ctacattcat catatcatgg gaaaggtgcc agacgcttgc	1140
actgcctgcg atctgggtcaa 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 gcaccctga ccgtggccga	180
gaagctgcag cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct	240
tttctttgtg caatttgaga agggagagag ctacttccac atgcacgtgc tcgtggaaac	300
caccgggggtg aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat	360
tcagagaatt taccgcggga tcgagccgac tttgccaac tggttcgcg tcacaaagac	420
cagaaatggc gccggaggcg ggaacaaggt ggtggatgag tgctacatcc ccaattactt	480
gctcccaaa acccagcctg agctccagtg ggcgtggact aatatggaac agtatttaag	540
cgcctgtttg aatctcacgg agcgtaaagc gttggtggcg cagcatctga cgcacgtgtc	600
gcagacgcag gagcagaaca aagagaatca gaatcccaat tctgatgcgc cggtgatcag	660
atcaaaaact tcagccaggt acatggagct ggtcgggtgg ctctgggaca aggggattac	720
ctcggagaag cagtggatcc aggaggacca ggcctcatac atctccttca atgcggcctc	780
caactcgcgg tcccaaatca aggctgcctt ggacaatgcg ggaaagatta tgagcctgac	840
taaaaccgcc cccgactacc tgggtgggcca gcagcccgtg gaggacattt ccagcaatcg	900
gatttataaa attttgaac taaacgggta cgatcccaa tatgcggctt ccgtctttct	960
gggatgggcc acgaaaaagt tcggcaagag gaacaccatc tggctgtttg ggcctgcaac	1020
taccgggaag accaaccatcg cggaggccat agcccacact gtgcccttct acgggtgcgt	1080
aaactggacc aatgagaact ttcccttcaa cgactgtgtc gacaagatgg tgatctgggtg	1140
ggaggagggg aagatgaccg ccaaggctgt ggagtcggcc aaagccattc tcggaggaag	1200
caagggtgcg gtggaccaga aatgcaagtc ctcggcccag atagaccga ctcccgtgat	1260
cgtcacctcc aacaccaaca tgtgcgccgt gattgacggg aactcaacga ccttcgaaca	1320
ccagcagccg ttgcaagacc ggatgttcaa atttgaactc acccgccgtc tggatcatga	1380

ctttgggaag gtcaccaagc aggaagtcaa agactttttc cggtagggcaa aggatcacgt	1440
ggttgagggtg gagcatgaat tctacgtcaa aaagggtgga gccaagaaaa gacccgcccc	1500
cagtgacgca gatataagtg agcccaaagc ggtgcgcgag tcagttgcgc agccatcgac	1560
gtcagacgcg gaagcttcga tcaactacgc agacaggtac caaaacaaat gttctcgtca	1620
cgtgggcatg aatctgatgc tgtttccctg cagacaatgc gagagaatga atcagaattc	1680
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tcaaccggtt tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat	1800
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<211> 51

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<223> Description of Artificial Sequence: Synthetic
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<211> 65

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 135

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cagtc	65
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<211> 67

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tcctgca	67
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<210> 138	
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<223> Description of Artificial Sequence: Synthetic oligonucleotide	
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<212> DNA	
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 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

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

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

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

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

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 tcctgca 67

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

oligonucleotide

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<223> Description of Artificial Sequence: Synthetic oligonucleotide	
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<210> 145	
<211> 42	
<212> DNA	
<213> Artificial Sequence	
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<223> Description of Artificial Sequence: Synthetic oligonucleotide	
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gcattgatta ttgactagtt attaatagta atcaattacg gggtcattag ttcatagccc	300
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<211> 8418

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

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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 ttgccccctcc cccgtgcctt ccttgaccct	60
ggaaggtgcc actcccactg tcctttccta ataaaatgag gaaattgcat cgatttgtct	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 ccctgcccc 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 cgacccttg gaatttcggt ggagaggagc agaggttgtc	300

ctggcgtggt ttaggtagtg tgagaggggtc cgggttcaaa accacttgct gggtaggggag	360
tcgtcagtaa gtggctatgc cccgaccccg aagcctgttt ccccatctgt acaatggaaa	420
tgataaagac gcccatctga taggggtttt gtggcaaata aacatttggt tttttgttt	480
tgttttgttt tgttttttga gatggagggt tgctctgtcg cccaggctgg agtgcagtga	540
cacaatctca tctcaccaca accttcccct gcctcagcct cccaagtagc tgggattaca	600
agcatgtgcc accacacctg gctaattttc tatttttagt agagacgggt ttctccatgt	660
tggtcagcct cagcctccca agtaactggg attacaggcc tgtgccacca caccggcta	720
attttttcta tttttgacag ggacgggggt tcaccatgtt ggtaggctg gtctagaggt	780
accggatctt gctaccagtg gaacagccac taaggattct gcagtgagag cagagggcca	840
gctaagtggg actctcccag agactgtctg actcacgcca cccctccac cttggacaca	900
ggacgctgtg gtttctgagc caggtacaat gactcctttc ggtaagtga 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 agcctggat	60
--	----

tttaaaatag ttaaattttc ctttagtgct gatttctaga ttattattac tgttgttggt	120
---	-----

gttattattg tcattatttg catctgagaa cccttaggtg gttatattat tgatatattt	180
---	-----

ttggtatctt tgatgacaat aatgggggat tttgaaagct tagctttaaa tttcttttaa	240
ttaaaaaaaaa atgctaggca gaatgactca aattacgttg gatacagttg aatttattac	300
ggtctcatag ggcctgcctg ctgaccatg 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 tcaggagta gcttaggtca gtgaagagaa gaacaaaaag	60
cagcatatta cagttagttg tcttcatcaa tctttaaata tgttgtgtgg ttttctctc	120
cctgtttcca cagacaagag tgagatcgcc catcggtata atgatttggg agaacaacat	180
ttcaaaggcc tgtaagttat aatgctgaaa gccacttaa tatttctggg agtattagtt	240
aaagttttaa aacacctttt tccaccttga gtgtgagaat tgtagagcag tgctgtccag	300
tagaaatgtg tgcattgaca gaaagactgt ggatctgtgc tgagcaatgt ggcagccaga	360
gatcacaagg ctatcaagca ctttgcacat ggcaagtgtg actgagaagc acacattcaa	420
ataatagtta attttaattg aatgtatcta gccatgtgtg gctagtagct ctttctctgg	480
agagagaatc tggagcccac atctaacttg ttaagtctgg aatcttattt tttatttctg	540
gaaaggtcta tgaactatag ttttgggggc agctcactta ctaactttta atgcaataag	600
atctcatggg atcttgagaa cattattttg tctctttgtg 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 ttgcttgga aaggcagggtg	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 tgacagtgc agtagatatg	1500
ccaaagtgga tgagggaag accacaagag ctaaaccctg taaaaagaac tgtaggcaac	1560
taaggaatgc agagagaaga agttgccttg gaagagcata ccaactgcct ctccaatacc	1620
aatggatcatc cctaaaacat acgtatgaat aacatgcaga ctaagcaggc tacatttagg	1680
aatatacatg tatttacata aatgtatatg catgtaacaa caatgaatga aaactgagg	1740
catggatctg aaagagagca agggggctta catgagagggg ttgaggagg ggggttgag	1800
ggaggagggt 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 cccaggaggt cgagaccagc ctgggcaaca	60
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tagtgtgatc ttgtatctat aaaaataaac aaaattagct tgggtgtggtg gcgcctgtag	120
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tccccagcca cttggagggg tgagggtgaga ggattgcttg agcccgggat ggtccaggct	180
gcagtgagcc atgatcgtgc cactgcactc cagcctgggc gacagagtga gaccctgtct	240
cacaacaaca acaacaaca caaaaaggct gagctgcacc atgcttgacc cagtttctta	300
aaattgttgt caaagcttca ttacttccat ggtgctatag agcacaagat tttatttggg	360
gagatgggtgc tttcatgaat tcccccaaca gagccaagct ctccatctag tggacaggga	420
agctagcagc aaaccttccc ttactacaa 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 cagcccgct cctgcctccg	720
ctctactcac tgggtgttcat ctttggtttt gtgggcaaca tgctgggtcat cctcatcctg	780
ataaactgca aaaggctgaa gagcatgact gacatctacc tgctcaacct ggccatctct	840
gacctgtttt tccttcttac tgtccccttc tgggctcact atgctgccgc ccagtgggac	900
tttggaata caatgtgtca actcttgaca gggctctatt ttataggctt cttctctgga	960
atcttcttca tcctctctct gacaatcgat aggtacctgg ctgtcgtcca tgctgtgttt	1020
gctttaaaag ccaggacggg cacctttggg gtgggtgaca gtgtgatcac ttgggtgggtg	1080
gctgtgtttg cgtctctccc aggaatcatc tttaccagat ctcaaaaaga aggtcttcat	1140
tacacctgca gctctcattt tccatacagt cagtatcaat tctggaagaa tttccagaca	1200
ttaaagatag tcatcttggg gctggctcctg ccgctgcttg tcatgggtcat 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
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gggagaagtt cagaaactac ctcttagtct tcttccaaaa gcacattgcc aaacgcttct	120
gcaaattgctg ttctattttc cagcaagagg ctcccagagcg agcaagctca gtttacaccc	180
gatccactgg ggagcaggaa atatctgtgg gcttgtgaca cggactcaag tgggctgggtg	240
accagtcag agttgtgcac atggcttagt tttcatacac agcctgggct ggggggtgggg	300
tgggagaggt cttttttaaa aggaagtac tgttatagag ggtctaagat tcatccattt	360
at ttggcatc tg ttttaaagt agattagatc ttttaagccc atcaattata gaaagccaaa	420
tcaaaatatg ttgatgaaaa atagcaacct ttttatctcc cttcacatg catcaagtta	480
ttgacaaact ctcccttcac tccgaaagtt ctttatgtat 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 aagtttact gacttagaac caggcgagag	780
acttgtggcc tgggagagct ggggaagctt cttaaagag aaggaatttg agttggatca	840
tctattgctg gcaaagacag aagcctcact gcaagcactg catgggcaag cttggctgta	900
gaaggagaca gagctggttg ggaagacatg gggaggaagg acaaggctag atcatgaaga	960
accttgacgg cattgctccg tctaagtcag gagctgagca gggagatcct ggttgggtgtt	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 gtcacatcaacc cgctccaagg aatcgcgggc ccagtgtcac taggcgggaa 60
caccagcgc 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 tggtcgcccc 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
 aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagt 60
 gcgggcgacc aaaggtcgcc cgacgcccg gcgcactcag tgagcgagcg agcgcgagc 120
 tgcctgcagg 130

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

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

<400> 161
 cctgcaggca gctgcgcgt cgctcgctcc ctaggactga ggccgcccg gcgtcgggcg 60
 acctttggtc gcccggcctc agtcctaggg agcgagcgag cgcgagaga 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 accaaaggct 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 cgagcgcg 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

ggcgggcctc agtgagcgag cgagcgcg 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 agcgcg 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 aggccgcccc 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 cggccgggct 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 aggccgcccc 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 accaaaggct gcccgacgcc cgggtttccc 60

 gggcggcctc agtgagcgag cgagcgcg 89

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

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

 <400> 173
 gcgcgctcgc tcgctcactg aggccggccg gaaaccgggc gtcgggacgac ctttggtcgc 60

 ccggcctcag tgagcgagcg agcgcg 87

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

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

 <400> 174
 gcgcgctcgc tcgctcactg aggccgggcg accaaaggct gcccgacgcc cggtttccgg 60

 gcggcctcag tgagcgagcg agcgcg 87

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

 <220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 175

gcgcgctcgc tcgctcactg aggccgcccg aaacgggctg cggcgacct 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 accaaaggct 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 aggccgccc aaggcgctg ggcgacctt ggctgcccgg 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 accaaaggct 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 aggccgccaaggcgctcggg 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 aggccggggcg accaaaggct gcccgacgcc tttggcgggc 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 gcgtcggggcg acctttggct gcccggcctc 60

agtgagcgag cgagcgcgcg 79

<210> 182

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

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

 <400> 182
 gcgcgctcgc tcgctcactg aggccgggcg accaaaggct 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 acctttggct 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 tcgcccgcgac 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 aggcgggcg accaaaggct gcccgacggc ctgagtgagc 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 aggcgggcg accaaaggct gcccgacgcc cggcggcct 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 gcgtcggcg acctttggct gcccggcctc 60

agtgagcgag cgagcgcgc 79