

SEQUENCE LISTING

<110> GENERATION BIO CO.

<120> GENE EDITING USING A MODIFIED CLOSED-ENDED DNA (CEDNA)

<130> 080170-090470WOPT

<140>

<141>

<150> 62/607,069

<151> 2017-12-18

<150> 62/595,328

<151> 2017-12-06

<160> 841

<170> PatentIn version 3.5

<210> 1

<211> 141

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

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ccgggcgacc aaaggtcgcc cgacgcccg gctttgccc ggcggcctca gtgagcgagc 120

gagcgcgcag ctgcctgcag g 141

<210> 2

<211> 130

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 2

aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgcccg gcggcctcag tgagcgagcg agcgcgcagc 120

tgctctgcagg 130

<210> 3
<211> 1923
<212> DNA
<213> Artificial Sequence

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

<400> 3
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aatatgaccg ccatgttggc attgattatt gactagttat taatagtaat caattacggg 180
gtcattagtt catagcccat atatggagtt ccgcgttaca taacttacgg taaatggccc 240
gcctggctga ccgccaacg acccccgccc attgacgtca ataatgacgt atgttcccat 300
agtaacgcca atagggactt tccattgacg tcaatgggtg gagtatttac ggtaaactgc 360
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ttctttttcc tacagtcct gggcaacgtg ctggttattg tgctgtctca tcatttgtcg	1860
acagaattcc tcgaagatcc gaaggggttc aagcttgga ttccggtact gttggtaaag	1920
cca	1923

<210> 4

<211> 1272

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

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tactcatgtc ctaaaatgg gaaacattg 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
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gacgcccac tgatagggtt tttgtggcaa ataaacattt ggtttttttg ttttgttttg	480
ttttgttttt tgagatggag gtttgctctg tcgcccaggc tggagtgcag tgacacaatc	540
tcatctcacc acaaccttc cctgcctcag cctcccaagt agctgggatt acaagcatgt	600

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cccctgtttg ctctccgat aactggggtg accttggtta atattacca gcagcctccc	1080
ccgttgcccc tctggatcca ctgcttaa at acggacgagg acagggccct gtctctcag	1140
cttcaggcac caccactgac ctgggacagt gaatccggac tctaaggtaa atataaaatt	1200
tttaagtgtg taatgtgtta aactactgat tctaattgtt tctctctttt agattccaac	1260
ctttggaact ga	1272

<210> 5

<211> 547

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 5

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cactcgaccc cttggaattt ttcggtggag aggagcagag gttgtcctgg cgtggtttag	180
gtagtgtgag aggggaatga ctcttttcgg taagtgcagt ggaagctgta cactgcccag	240
gcaaagcgtc cgggcagcgt aggcgggcga ctcagatccc agccagtgga cttagcccct	300
gtttgctcct ccgataactg ggggtgacctt ggtaaatatt caccagcagc ctccccggtt	360
gcccctctgg atccactgct taaatacggg cgaggacagg gccctgtctc ctgagcttca	420
ggcaccacca ctgacctggg acagtgaatc cggactctaa ggtaaatata aaatTTTTaa	480
gtgtataatg tgtaaacta ctgattctaa ttgtttctct cttttagatt ccaacctttg	540
gaactga	547

<210> 6
<211> 1179
<212> DNA
<213> Artificial Sequence

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

<400> 6
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ggaggggtcg gcaattgaac cgggtgcctag agaaggtggc gcggggtaaa ctgggaaagt 120
gatgtcgtgt actggctccg cttttttccc gaggggtgggg gagaaccgta tataagtgca 180
gtagtgcgag tgaacgttct ttttcgcaac gggtttgccg ccagaacaca ggtaagtgcc 240
gtgtgtgggt cccgcggggc tggcctcttt acgggttatg gcccttgctg gccttgaatt 300
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gagagttcga ggccttgctg ttaaggagcc ctttcgcctc gtgcttgagt tgaggcctgg 420
cctgggagct gggggccgag cgtgcgaatc tgggtggcacc ttcgcgcctg tctcgtgct 480
ttcgataagt ctctagccat ttaaaatttt tgatgacctg ctgcgacgct ttttttctgg 540
caagatagtc ttgtaaatgc gggccaagat ctgcacactg gtatttcggt ttttggggcc 600
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gagtttcccc acactgagtg ggtggagact gaagttaggc cagcttggca cttgatgtaa 1080
ttctccttgg aatttgccct ttttgagttt ggatcttggg tcattctcaa gcctcagaca 1140
gtggttcaaa gtttttttct tccatttcag gtgtcgtga 1179

<210> 7

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

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

<400> 7
gtttaaac 8

<210> 8
<211> 581
<212> DNA
<213> Artificial Sequence

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

<400> 8
gagcatctta ccgccattta ttcccatatt tgttctgttt ttcttgattt gggatacat 60
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 tccttgata aatcctggtt gctgtctctt 360
ttagaggagt tgtggcccg tgtccgtcaa cgtggcgtgg tgtgctctgt gtttgctgac 420
gcaaccccc a ctggctgggg cattgccacc acctgtcaac tcctttctgg gactttcgct 480
ttccccctcc cgatcgccac ggcagaactc atcgccgcct gccttgcccg ctgctggaca 540
ggggctaggt tgctgggcac tgataattcc gtggtgttgt c 581

<210> 9
<211> 225
<212> DNA
<213> Artificial Sequence

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

<400> 9
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ggaaggtgcc actcccactg tcctttccta ataaaatgag gaaattgcat cgcattgtct	120
gagtaggtgt cattctattc tgggggggtgg ggtggggcag gacagcaagg gggaggattg	180
ggaagacaat agcaggcatg ctggggatgc ggtgggctct atggc	225

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

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

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tttgtgaaat ttgtgatgct attgctttat ttgtaaccat tataagctgc aataaacaag	120
ttaacaacaa caattgcatt cattttatgt ttcaggttca gggggaggtg tgggaggttt	180
tttaaagcaa gtaaaacctc tacaaatgtg gta	213

<210> 11
 <211> 1260
 <212> DNA
 <213> Adeno-associated virus - 2

<400> 11	
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gaggaccagg cctcatacat ctccttcaat gcggcctcca actcgcggtc ccaaatcaag	120
gctgccttgg acaatgcggg aaagattatg agcctgacta aaaccgcccc cgactacctg	180
gtgggccagc agcccgtgga ggacatttcc agcaatcgga ttataaaaat tttggaacta	240
aacgggtacg atccccaata tgcggcttcc gtctttctgg gatgggccac gaaaaagttc	300
ggcaagagga acaccatctg gctgtttggg cctgcaacta ccgggaagac caacatcgcg	360
gaggccatag cccacactgt gcccttctac gggatgcgtaa actggaccaa tgagaacttt	420
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tgcgccgtga ttgacgggaa ctcaacgacc ttcgaacacc agcagccgtt gcaagaccgg	660

atgttcaaat ttgaactcac ccgccgtctg gatcatgact ttgggaaggt caccaagcag	720
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tacgtcaaaa aggggtggagc caagaaaaga cccgccccca gtgacgcaga tataagtgag	840
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actgcctgcg atctgggtcaa tgtggatttg gatgactgca tctttgaaca ataatgatt	1200
taaatcaggt atggctgccg atggttatct tccagattgg ctcgaggaca ctctctctga	1260

<210> 12

<211> 1932

<212> DNA

<213> Adeno-associated virus - 2

<400> 12

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tctgacatgg atctgaatct gattgagcag gcacccctga ccgtggccga gaagctgcag	180
cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct tttctttgtg	240
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aatctcacgg agcgtaaagc gttgggtggc cagcatctga cgcacgtgtc gcagacgcag	600
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aacaccaaca tgtgcgccgt gattgacggg aactcaacga cttcgaaca ccagcagccg	1320
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ccagacgctt gcactgcctg cgatctggtc aatgtggatt tggatgactg catctttgaa	1860
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cactctctct ga	1932

<210> 13

<211> 1876

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 13

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gcatctgccc ggcatttctg acagctttgt gaactgggtg gccgagaagg aatgggagtt	120
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cagtgcgca gatataagt 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

tcaacccgtt tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat	1800
gggaaaggtg ccagacgctt gcactgcctg cgatctggtc aatgtggatt tggatgactg	1860
catctttgaa caataa	1876

<210> 14
 <211> 1194
 <212> DNA
 <213> Artificial Sequence

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

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gctgccttgg acaatgcggg aaagattatg agcctgacta aaaccgcccc cgactacctg	180
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gaggccatag cccacactgt gcccttctac ggggtgcgtaa actggaccaa tgagaacttt	420
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aaggtcgtgg agtcggccaa agccattctc ggaggaagca aggtgcgcgt ggaccagaaa	540
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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 accgctacca aaacaaatgt tctcgtcacg tgggcatgaa tctgatgctg	960
tttccctgca gacaatgcga gagaatgaat cagaattcaa atatctgctt cactcacgga	1020
cagaaagact gtttagagtg ctttcccggtg tcagaatctc aaccgtttc tgtcgtcaaa	1080

aaggcgtatc agaaactgtg ctacattcat catatcatgg gaaaggtgcc agacgcttgc	1140
actgcctgcg atctgggtcaa tgtggatttg gatgactgca tctttgaaca ataa	1194

<210> 15
 <211> 141
 <212> DNA
 <213> Artificial Sequence

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

<400> 15	
aataaacgat aacgccgttg gtggcgtgag gcatgtaaaa ggttacatca ttatcttggt	60
cgccatccgg ttggtataaa tagacgttca tgttggtttt tgtttcagtt gcaagttggc	120
tgcggcgcgc gcagcacctt t	141

<210> 16
 <211> 556
 <212> DNA
 <213> Artificial Sequence

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

<400> 16	
ccctaaaatg ggcaaacatt gcaagcagca aacagcaaac acacagccct ccctgcctgc	60
tgaccttgga gctggggcag aggtcagaga cctctctggg cccatgccac ctccaacatc	120
cactcgaccc cttggaattt cgggtgagag gagcagaggt tgtcctggcg tggtttaggt	180
agtgtgagag gggaatgact cttttcggtg agtgcagtgg aagctgtaca ctgcccaggc	240
aaagcgtccg ggcagcgtag gcgggcgact cagatcccag ccagtggact tagccccctgt	300
ttgctcctcc gataactggg gtgaccttgg ttaatatcca ccagcagcct cccccgttgc	360
ccctctggat ccactgctta aatacggacg aggacactcg agggccctgt ctctcagct	420
tcaggcacca ccactgacct gggacagtga atccggacat cgattctaag gtaaataataa	480
aatttttaag tgtataattt gttaaactac tgattctaat tgtttctctc ttttagattc	540
caaccttttg aactga	556

<210> 17

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

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 17
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgcc cgggcggcct 60
cagtgagcga gcgagcgcgc 80

<210> 18
<211> 241
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 18
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> 19
<211> 215
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 19
gaacgctgac gtcacatcaacc cgctccaagg aatcgcgggc ccagtgtcac taggcgggaa 60
caccacagcgc gcgtgcgccc tggcaggaag atggctgtga gggacagggg agtggcgccc 120
tgcaatatatt gcatgtcgct atgtgttctg ggaaatcacc ataaacgtga aatgtctttg 180
gatttgggaa tcgtataaga actgtatgag accac 215

<210> 20
<211> 150
<212> DNA
<213> Artificial Sequence

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

<400> 20
ataaacgata acgccgttgg tggcgtgagg catgtaaaag gttacatcat tatcttgttc 60
gccatccggg tggtataaat agacgttcat gttggttttt gtttcagttg caagttggct 120
gcggcgcgcg cagcaccttt gcggccatct 150

<210> 21
<211> 546
<212> DNA
<213> Artificial Sequence

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

<400> 21
ccctaaaatg ggcaaacatt gcaagcagca aacagcaaac acacagccct ccctgcctgc 60
tgaccttgga gctggggcag aggtcagaga cctctctggg cccatgccac ctccaacatc 120
cactcgaccc cttggaattt ttcggtggag aggagcagag gttgtcctgg cgtgggtttag 180
gtagtgtgag aggggaatga ctcctttcgg taagtgcagt ggaagctgta cactgcccag 240
gcaaagcgtc cgggcagcgt aggcgggcga ctcagatccc agccagtgga ctagcccct 300
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ggcaccacca ctgacctggg acagtgaatc cggactctaa ggtaaatata aaatttttaa 480
gtgtataatg tggtaaacta ctgattctaa ttgtttctct cttttagatt ccaacctttg 540
gaactg 546

<210> 22
<211> 317
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 22

ggtgtggaaa gtccccaggc tccccagcag gcagaagtat gcaaagcatg catctcaatt	60
agtcagcaac caggtgtgga aagtccccag gtcccccagc aggcagaagt atgcaaagca	120
tgcattctcaa ttagtcagca accatagtcc cgcccctaac tccgcccata cgcgccctaa	180
ctccgcccag ttccgcccata tctccgcccc atggctgact aaaaaaaaa atttatgcag	240
aggccgaggc cgcctcggcc tctgagctat tccagaagta gtgaggaggc ttttttgag	300
gcctaggctt ttgcaaa	317

<210> 23

<211> 576

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 23

tagtaatcaa ttacggggtc attagttcat agcccatata tggagttccg cgttacataa	60
cttacggtaa atggcccgcc tggctgaccg cccaacgacc cccgcccatt gacgtcaata	120
atgacgtatg ttcccatagt aacgccaata gggactttcc attgacgtca atgggtggag	180
tatttacggt aaactgccc cttggcagta catcaagtgt atcatatgcc aagtacgccc	240
cctattgacg tcaatgacgg taaatggccc gcctggcatt atgcccagta catgacctta	300
tgggactttc ctacttgga 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> 24

<211> 1313

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 24

ggagccgaga gtaattcata caaaaggagg gatcgcttc 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 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 ctctgttccg gcttgaggcc	540
tagcgtggtg tccgccgccg cgtgccactc cggccgcact atgcgttttt tgccttgct	600
gccctcgatt gccttcagc agcatgggct aacaaaggga gggtaggggg ctactctta	660
aggagcccat gaagcttacg ttggatagga atggaagggc aggaggggcg actggggccc	720
gcccgccttc ggagcacatg tccgaccca cctggatggg gcgaggcctg tggctttccg	780
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tggcctggcg gtgccgcgtt cccttgctc ccaacaaggg tgaggccgtc ccgcccggca	900
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gaggacgcgg cagcccggtg gagcgggcgg gtgagtcacc cacacaaagg aagagggcct	1020
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tgttcacatt tggtaggtgg agactagtca ggccagcctg gcgctggaag tcattcttgg	1200
aatttgcccc tttgagtttg gagcgaggct aattctcaag cctcttagcg gttcaaaggt	1260
attttctaaa cccgtttcca ggtgttgtga aagccaccgc taattcaaag caa	1313

<210> 25

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 25

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr Gly
1 5 10 15

Ala His Ser

<210> 26

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 26

Met Leu Pro Ser Gln Leu Ile Gly Phe Leu Leu Leu Trp Val Pro Ala
1 5 10 15

Ser Arg Gly

<210> 27

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 27

Pro Lys Lys Lys Arg Lys Val
1 5

<210> 28

<400> 28

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<210> 29

<400> 29

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<210> 30

<400> 30
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<210> 31

<400> 31
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<210> 32

<400> 32
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<210> 33

<400> 33
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<400> 34
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<400> 35
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<210> 37

<400> 37
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<210> 38

<400> 38

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<210> 39

<400> 39

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<210> 40

<400> 40

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<210> 41

<400> 41

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<210> 42

<400> 42

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<210> 43

<400> 43

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<210> 44

<400> 44

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<210> 45

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 45

ggttga

6

<210> 46

<211> 4

<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 46
agtt

4

<210> 47
<211> 6
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 47
ggttgg

6

<210> 48
<211> 6
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 48
agttgg

6

<210> 49
<211> 6
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 49
agttga

6

<210> 50
<211> 6
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 50

rrttrr

6

<210> 51

<211> 141

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 51

cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgggcaaag cccgggcgtc 60

gggcgacctt tggtcgcccgc gcctcagtga gcgagcgagc gcgagagag ggagtggcca 120

actccatcac taggggttcc t 141

<210> 52

<211> 130

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 52

cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgggcgctc ggcgaccttt 60

ggtcgcccgc cctcagttag cgagcgagcg cgagagagg gaggggccaa ctccatcact 120

aggggttcct 130

<210> 53

<400> 53

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<210> 54

<400> 54

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<210> 55

<400> 55
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<210> 56

<400> 56
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<210> 57

<400> 57
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<210> 58

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<210> 59

<400> 59
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<210> 60

<400> 60
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<210> 61

<400> 61
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<210> 62

<400> 62
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<210> 63

<211> 126

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 63

cctgcaggca gctgcgcgct cgctcgctca ctgaggccgc ccgggaaacc cgggcgtgcc 60

cgggcgcctc agtgagcgag cgagcgcgca gagaggaggt ggccaactcc atcactaggg 120

gttcct 126

<210> 64

<211> 120

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 64

aggaaccctt agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg 60

ccgcccggga aaccggggcg tgcgcctcag tgagcgagcg agcgcgcagc tgcctgcagg 120

<210> 65

<400> 65

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<210> 66

<211> 141

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 66

aataaacgat aacgccgttg gtggcgtgag gcatgtaaaa ggttacatca ttatcttggt 60

cgccatccgg ttggtataaa tagacgttca tgttggtttt tgtttcagtt gcaagttggc 120

tgcggcgcgc gcagcacctt t 141

<210> 67

<211> 1876

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 67

cgagccacc atggcggggt tttacgagat tgtgattaag gtccccagcg accttgacga	60
gcatctgccc ggcatttctg acagctttgt gaactgggtg gccgagaagg aatgggagtt	120
gccgccagat tctgacatgg atctgaatct gattgagcag gcaccctga cctggccga	180
gaagctgcag cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct	240
tttctttgtg caatttgaga agggagagag ctacttcac atgcacgtgc tcgtggaac	300
caccggggtg aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat	360
tcagagaatt taccgcggga tcgagccgac tttgcaaac tggttcgcg tcacaaagac	420
cagaaatggc gccggaggcg ggaacaaggt ggtggatgag tgctacatcc ccaattactt	480
gctcccaaa acccagcctg agctccagtg ggcgtggact aatatggaac agtatttaag	540
cgcctgtttg aatctcacgg agcgtaaacg gttggtggcg cagcatctga cgcacgtgtc	600
gcagacgcag gagcagaaca aagagaatca gaatcccaat tctgatgcgc cggatgatcag	660
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taaaaccgcc cccgactacc tgggtgggcca gcagcccgtg gaggacattt ccagcaatcg	900
gatttataaa attttgaac taaacgggta cgatcccaa tatgcggctt ccgtctttct	960
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aaactggacc aatgagaact ttcccttcaa cgactgtgtc gacaagatgg tgatctggtg	1140
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caaggtgcgc gtggaccaga aatgcaagtc ctcggcccag atagaccga ctcccgtgat	1260
cgtcacctcc aacaccaaca tgtgcgccgt gattgacggg aactcaacga cttcgaaca	1320
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ggttgaggtg gagcatgaat tctacgtcaa aaagggtgga gccaagaaaa gacccgcccc	1500
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cgtgggcatg aatctgatgc tgtttccctg cagacaatgc gagagaatga atcagaattc	1680
aaatatctgc ttcactcacg gacagaaaga ctgttttagag tgctttcccg tgtcagaatc	1740
tcaacccgtt tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat	1800
gggaaagggtg ccagacgctt gcactgcctg cgatctggtc aatgtggatt tggatgactg	1860
catctttgaa caataa	1876

<210> 68
 <211> 129
 <212> DNA
 <213> Artificial Sequence

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

<400> 68	
atcatggaga taattaaaat gataaccatc tcgcaaataa ataagtatct tactgttttc	60
gtaacagttt tgtaataaaa aaacctataa atattccgga ttattcatac cgtcccacca	120
tcgggcgcg	129

<210> 69
 <211> 1203
 <212> DNA
 <213> Artificial Sequence

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

<400> 69	
gccgccacca tggagttggt gggctggctc gtggacaaag gcattacttc ggaaaagcag	60
tggattcagg aggatcaggc atcttacatc tcattcaacg ctgccagtaa ctcgaggtcc	120
cagatcaagg cagcgctgga caacgcggga aagattatga gtctgaccaa aactgctcca	180
gactacctcg ttggtcagca accggtggaa gatattctcca gcaacaggat ctacaagatt	240
ctggagctca acggctacga ccctcaatac gctgcctcag tgttcttggg ttgggccacc	300

aagaaattcg gcaagagaaa cactatctgg ctgttcggcc ccgctaccac tggaaagaca	360
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gagaacttcc cgttcaacga ctgtgtcgat aagatggtta tctgggtggga ggaaggaaag	480
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acacatggcc agaaggactg cctcgaatgt ttccctgtgt cagagagtca gcccgctctca	1080
gtcgtaaga aagcttacca aaagttgtgc tacatccacc atattatggg taaagtcctt	1140
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taa	1203

<210> 70

<400> 70
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<210> 71

<400> 71
000

<210> 72

<400> 72
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<210> 73
<211> 225
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 73

tgtgccttct agttgccagc catctgttgt ttgccctcc cccgtgcctt ccttgaccct	60
ggaaggtgcc actcccactg tcctttccta ataaaatgag gaaattgcat cgcattgtct	120
gagtaggtgt cattctattc tgggggggtgg ggtggggcag gacagcaagg gggaggattg	180
ggaagacaat agcaggcatg ctggggatgc ggtgggctct atggc	225

<210> 74

<211> 1177

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 74

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tcagttccca tcctccagca gctgtttgtg tgctgcctct gaagtccaca ctgaacaaac	120
ttcagcctac tcatgtccct aaaatgggca aacattgcaa gcagcaaaca gcaaacacac	180
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gcgcgcagct gcctgcagg 139

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gcgcagctgc ctgcagg 137

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gcagctgcct gcagg 135

<210> 476
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agctgcctgc agg 133

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gcgcgcagct gcctgcagg 139

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<210> 480
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<210> 482

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ccgggcgacc aaaggtcgcc cgacgctttg cggcctcagt gagcgagcga gcgcgagct 120

gcctgcagg 129

<210> 483

<211> 127

<212> DNA

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ccgggcgacc aaaggtcgcc cgacgtttcg gcctcagtga gcgagcgagc gcgcagctgc 120

ctgcagg 127

<210> 484

<211> 120

<212> DNA

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<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 484

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<210> 485

<211> 122

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic polynucleotide

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<210> 486

<211> 122

<212> DNA

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<223> Description of Artificial Sequence: Synthetic polynucleotide

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ct	122

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ggggttcct	129

<210> 488
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catcactagg gggttcct 137

<210> 491
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tcactagggg ttcct 135

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actaggggtt cct 133

<210> 493
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<223> Description of Artificial Sequence: Synthetic polynucleotide

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tccatcacta ggggttcct 139

<210> 494
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<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 494
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gacctttggt cgcccggcct cagtagcga gcgagcgcgc agagaggag tggccaactc 120
catcactagg ggttcct 137

<210> 495
<211> 135
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<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 495
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cctttggtcg cccggcctca gtgagcgcgc gagcgcgcag agaggagtg gccaaactcca 120
tcactagggg ttcct 135

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<400> 496
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 actaggggtt cct 133

<210> 497
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<220>
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<400> 497
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 taggggttcc t 131

<210> 498
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 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 498
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 ggggttcct 129

<210> 499
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<400> 499
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ggttcct 127

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<400> 500
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<210> 501
<211> 28
<212> DNA
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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 501
cgggcccgtg cgggcccaaa gggcccgc 28

<210> 502
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<212> DNA
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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 502
gcccgggcac gcccgggttt cccgggcg 28

<210> 503
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oligonucleotide

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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<223> Description of Artificial Sequence: Synthetic
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<400> 505

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<212> DNA

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<223> Description of Artificial Sequence: Synthetic
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<400> 506

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<212> DNA

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oligonucleotide

<400> 507
cgggcgacca aaggtcgccc g 21

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oligonucleotide

<400> 508
cgcccgggct ttgcccgggc 20

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<400> 509
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<210> 510
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<400> 510
cgggcgacca aaggtcgccc g 21

<210> 511
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<400> 511

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<400> 512
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<210> 513
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oligonucleotide

<400> 513
cgggcgacca aaggtcgccc g 21

<210> 514
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<400> 515
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<210> 516
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 <210> 517
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 <220>
 <223> Description of Artificial Sequence: Synthetic
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 <210> 518
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oligonucleotide

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21

<210> 525

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<223> Description of Artificial Sequence: Synthetic
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oligonucleotide

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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

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<210> 529
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<210> 532
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<220>
 <223> Description of Artificial Sequence: Synthetic
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<210> 536
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<212> DNA
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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 536
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<210> 538
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<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 538
aggaaccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgcccgggc aaagcccggg cgtcgggcga cctttggtcg cccggcctca gtgagcgagc	120
gagcgcgcag agaggggagtg gccaaactcca tcactagggg ttcct	165

<210> 539
 <211> 140
 <212> DNA
 <213> Artificial Sequence

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

<400> 539	
cccctagtga tggagttggc cactccctct ctgcgcgctc gctcgctcac tgaggccgcc	60
cgggcaaagc ccgggcgtcg ggcgacctt ggtcgcccgg cctcagttag cgagcgagcg	120
cgcagagaga tcactagggg	140

<210> 540
 <211> 91
 <212> DNA
 <213> Artificial Sequence

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

<400> 540	
gcgcgctcgc tcgctcactg aggccgccc ggcaaagccc gggcgctcggg cgacctttgg	60
tcgcccggcc tcagttagcg agcgagcgcg c	91

<210> 541
 <211> 91
 <212> DNA
 <213> Artificial Sequence

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

<400> 541	
gcgcgctcgc tcgctcactg aggccgggcg accaaaggtc gcccgacgcc cgggctttgc	60
ccgggcggcc tcagttagcg agcgagcgcg c	91

<210> 542

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

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 542
ttaattaa

8

<210> 543

<400> 543
000

<210> 544

<400> 544
000

<210> 545
<211> 79
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 545
gcgcgctcgc tcgctcactg aggcgcccgg gcgtcgggcg acctttgggc gcccggcctc
agtgagcgag cgagcgcg

60

79

<210> 546
<211> 81
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 546
ctgcgcgctc gctcgctcac tgaggccggg cgaccaaagg tcgcccgcac tttcggcctc
agtgagcgag cgagcgcgca g

60

81

<210> 547
<211> 81
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 547
ctgcgcgctc gctcgctcac tgaggccgaa acgtcgggcg acctttggtc gcccggcctc 60
agtgagcgag cgagcgcgca g 81

<210> 548

<400> 548
000

<210> 549

<400> 549
000

<210> 550
<211> 144
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 550
aggaacccta gtgatggagt tggccactcc ctctctgcgc gctcgctcgc tcaactgaggc 60
cgccccgggca aagccccgggc gtcgggcgac ctttggtcgc ccggcctcag tgagcgagcg 120
agcgcgcaga gagggagtgg ccaa 144

<210> 551
<211> 43
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 551

gcccgtggt ttccagcggg ctgcgggccc gaaacgggcc cgc 43

<210> 552
<211> 28
<212> DNA
<213> Artificial Sequence

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

<400> 552
cgggcccgtg cgggccc aaa gggcccgc 28

<210> 553
<211> 28
<212> DNA
<213> Artificial Sequence

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

<400> 553
gcccgggcac gcccgggttt cccgggcg 28

<210> 554
<211> 22
<212> DNA
<213> Artificial Sequence

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

<400> 554
cgtgcgggcc caaagggcc gc 22

<210> 555
<211> 43
<212> DNA
<213> Artificial Sequence

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

<400> 555
gcgggccgga aacgggcccg ctgcccgtg gtttccagcg ggc 43

<210> 556
<211> 28
<212> DNA
<213> Artificial Sequence

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

<400> 556
cgcccgggaa acccgggcgt gcccgggc 28

<210> 557
<211> 28
<212> DNA
<213> Artificial Sequence

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

<400> 557
gggccgcccc ggaaaccgg gcgtgccc 28

<210> 558
<211> 29
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(1)
<223> a, c, t, g, unknown or other

<220>
<221> modified_base
<222> (3)..(3)
<223> a, c, t, g, unknown or other

<220>
<221> modified_base
<222> (25)..(25)
<223> a, c, t, g, unknown or other

<400> 558
ntntctctct tttctctctc tctcncagg 29

<210> 559
<211> 10
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(1)
<223> a, c, t, g, unknown or other

<400> 559
naggtagagt 10

<210> 560
<211> 143
<212> DNA
<213> Artificial Sequence

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

<400> 560
ttgccactc cctctctgcg cgctcgctcg ctcggtgggg cctgcggacc aaaggtccgc 60
agacggcaga ggtctcctct gccggcccca ccgagcgagc gacgcgca gagagggagt 120
gggcaactcc atcactaggg taa 143

<210> 561
<211> 144
<212> DNA
<213> Artificial Sequence

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

<400> 561
ttggcactc cctctatgcg cactcgctcg ctcggtgggg cctggcgacc aaaggtcgcc 60
agacggacgt gggtttccac gtccggcccc accgagcgag cgagtgcgca tagagggagt 120
ggccaactcc atcactagag gtat 144

<210> 562
<211> 127
<212> DNA
<213> Artificial Sequence

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

<400> 562
ttggccactc cctctatgcg cgctcgctca ctactcggc cctggagacc aaaggtctcc 60
agactgccgg cctctggccg gcagggccga gtgagtgagc gagcgcgcat agagggagtg 120
gccaaact 127

<210> 563
<211> 166
<212> DNA
<213> Artificial Sequence

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

<400> 563
tccccctgt cgcttcgct cgctcgctgg ctggtttggg ggggcgacgg ccagagggcc 60
gtcgtctggc agctctttga gctgccaccc ccccaaacga gccagcgagc gagcgaacgc 120
gacagggggg agagtggcac actctcaagc aaggggggttt tgtaag 166

<210> 564
<211> 144
<212> DNA
<213> Artificial Sequence

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

<400> 564
ttgcccactc cctctaatagc gcgctcgctc gctcgggtggg gcctgcggac caaaggtccg 60
cagacggcag aggtctcctc tgccggcccc accgagcgag cgagcgcgca tagagggagt 120
gggcaactcc atcactaggg gtat 144

<210> 565
<211> 143

<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 565

ttaccctagt gatggagttg cccactccct ctctgcgcgc gtcgctcgct cgggtggggcc 60

ggcagaggag acctctgccg tctgcggacc tttggtccgc aggccccacc gagcgagcga 120

gcgcgcagag agggagtggg caa 143

<210> 566

<211> 144

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 566

atacctctag tgatggagtt ggccactccc tctatgcgca ctcgctcgct cgggtggggcc 60

ggacgtggaa acccacgtcc gtctggcgac ctttggtcgc caggccccac cgagcgagcg 120

agtgcgcata gagggagtgg ccaa 144

<210> 567

<211> 127

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 567

agtggccac attagctatg cgcgctcgct cactcactcg gccctggaga ccaaaggtct 60

ccagactgcc ggcctctggc cggcagggcc gagtgagtga gcgagcgcgc atagaggag 120

tggccaa 127

<210> 568

<211> 166

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 568

cttacaaaac ccccttgctt gagagtgtgg cactctcccc cctgtcgcgt tcgctcgctc 60

gctggctcgt ttgggggggt ggcagctcaa agagctgcca gacgacggcc ctctggccgt 120

cgccccccca aacgagccag cgagcgagcg aacgcgacag ggggga 166

<210> 569

<211> 144

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 569

atacccctag tgatggagtt gccactccc tctatgcgcg ctcgctcgct cggtggggcc 60

ggcagaggag acctctgccg tctgcggacc tttggtccgc aggccccacc gagcgagcga 120

gcgcgcatta gagggagtgg gcaa 144

<210> 570

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 570

atcgaacgat cg 12

<210> 571

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 571

cgatcgttcg at 12

<210> 572
<211> 12
<212> DNA
<213> Artificial Sequence

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

<400> 572
atcgaaccat cg 12

<210> 573
<211> 7
<212> PRT
<213> Simian virus 40

<400> 573
Pro Lys Lys Lys Arg Lys Val
1 5

<210> 574
<211> 21
<212> DNA
<213> Simian virus 40

<400> 574
cccaagaaga agaggaaggt g 21

<210> 575
<211> 16
<212> PRT
<213> Unknown

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

<400> 575
Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly Gln Ala Lys Lys Lys Lys
1 5 10 15

<210> 576
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:

C-myc NLS sequence

<400> 576

Pro Ala Ala Lys Arg Val Lys Leu Asp
1 5

<210> 577

<211> 11

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown:

C-myc NLS sequence

<400> 577

Arg Gln Arg Arg Asn Glu Leu Lys Arg Ser Pro
1 5 10

<210> 578

<211> 38

<212> PRT

<213> Homo sapiens

<400> 578

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> 579

<211> 42

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown:

IBB domain from importin-alpha sequence

<400> 579

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> 580
<211> 8
<212> PRT
<213> Unknown

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

<400> 580
Val Ser Arg Lys Arg Pro Arg Pro
1 5

<210> 581
<211> 8
<212> PRT
<213> Unknown

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

<400> 581
Pro Pro Lys Lys Ala Arg Glu Asp
1 5

<210> 582
<211> 8
<212> PRT
<213> Homo sapiens

<400> 582
Pro Gln Pro Lys Lys Lys Pro Leu
1 5

<210> 583
<211> 12
<212> PRT
<213> Mus musculus

<400> 583
Ser Ala Leu Ile Lys Lys Lys Lys Lys Met Ala Pro
1 5 10

<210> 584
<211> 5
<212> PRT
<213> Influenza virus

<400> 584
Asp Arg Leu Arg Arg
1 5

<210> 585
<211> 7
<212> PRT
<213> Influenza virus

<400> 585
Pro Lys Gln Lys Lys Arg Lys
1 5

<210> 586
<211> 10
<212> PRT
<213> Hepatitis delta virus

<400> 586
Arg Lys Leu Lys Lys Lys Ile Lys Lys Leu
1 5 10

<210> 587
<211> 10
<212> PRT
<213> Mus musculus

<400> 587
Arg Glu Lys Lys Lys Phe Leu Lys Arg Arg
1 5 10

<210> 588
<211> 20
<212> PRT
<213> Homo sapiens

<400> 588
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> 589
<211> 17
<212> PRT
<213> Homo sapiens

<400> 589
Arg Lys Cys Leu Gln Ala Gly Met Asn Leu Glu Ala Arg Lys Thr Lys
1 5 10 15

Lys

<210> 590
<211> 23
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(20)
<223> a, c, t, or g

<220>
<221> modified_base
<222> (21)..(21)
<223> a, c, t, g, unknown or other

<400> 590
nnnnnnnnnnnn nnnnnnnnnnn ngg

23

<210> 591
<211> 15
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(12)
<223> a, c, t, or g

<220>
<221> modified_base
<222> (13)..(13)
<223> a, c, t, g, unknown or other

<400> 591
nnnnnnnnnnnn nnnngg

15

<210> 592
<211> 23
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(20)
<223> a, c, t, or g

<220>
<221> modified_base
<222> (21)..(21)
<223> a, c, t, g, unknown or other

<400> 592
nnnnnnnnnnnn nnnnnnnnnnn ngg

23

<210> 593
<211> 14
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(11)
<223> a, c, t, or g

<220>
<221> modified_base
<222> (12)..(12)
<223> a, c, t, g, unknown or other

<400> 593

nnnnnnnnnn nngg

14

<210> 594
<211> 27
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(20)
<223> a, c, t, or g

<220>
<221> modified_base
<222> (21)..(22)
<223> a, c, t, g, unknown or other

<400> 594
nnnnnnnnnn nnnnnnnnnn nnagaaw

27

<210> 595
<211> 19
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(12)
<223> a, c, t, or g

<220>
<221> modified_base
<222> (13)..(14)
<223> a, c, t, g, unknown or other

<400> 595
nnnnnnnnnn nnnnagaaw

19

<210> 596
<211> 27
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (1)..(20)

<223> a, c, t, or g

<220>

<221> modified_base

<222> (21)..(22)

<223> a, c, t, g, unknown or other

<400> 596

nnnnnnnnnn nnnnnnnnnn nnagaaw

27

<210> 597

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (1)..(11)

<223> a, c, t, or g

<220>

<221> modified_base

<222> (12)..(13)

<223> a, c, t, g, unknown or other

<400> 597

nnnnnnnnnn nnnagaaw

18

<210> 598

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
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<222> (1)..(20)
<223> a, c, t, or g

<220>
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<222> (21)..(21)
<223> a, c, t, g, unknown or other

<220>
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<222> (24)..(24)
<223> a, c, t, g, unknown or other

<400> 598
nnnnnnnnnnn nnnnnnnnnn nggng

25

<210> 599
<211> 17
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(12)
<223> a, c, t, or g

<220>
<221> modified_base
<222> (13)..(13)
<223> a, c, t, g, unknown or other

<220>
<221> modified_base
<222> (16)..(16)
<223> a, c, t, g, unknown or other

<400> 599
nnnnnnnnnnn nnnggng

17

<210> 600
<211> 25
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(20)
<223> a, c, t, or g

<220>
<221> modified_base
<222> (21)..(21)
<223> a, c, t, g, unknown or other

<220>
<221> modified_base
<222> (24)..(24)
<223> a, c, t, g, unknown or other

<400> 600
nnnnnnnnnnnn nnnnnnnnnnn nggng

25

<210> 601
<211> 16
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(11)
<223> a, c, t, or g

<220>
<221> modified_base
<222> (12)..(12)
<223> a, c, t, or g, unknown or other

<220>
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<222> (15)..(15)
<223> a, c, t, g, unknown or other

<400> 601
nnnnnnnnnnnn nnggng

16

<210> 602

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

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

<220>
<221> modified_base
<222> (1)..(20)
<223> a, c, t, g, unknown or other

<400> 602
nnnnnnnnnnn nnnnnnnnnn gtttttgtac tctcaagatt tagaaataaa tcttgcagaa 60
gctacaaaga taaggcttca tgccgaaatc aacaccctgt cattttatgg cagggtgttt 120
tcgttattta atttttt 137

<210> 603
<211> 123
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(20)
<223> a, c, t, g, unknown or other

<400> 603
nnnnnnnnnnn nnnnnnnnnn gtttttgtac tctcagaaat hcagaagcta caaagataag 60
gcttcatgcc gaaatcaaca ccctgtcatt ttatggcagg gtgttttcgt tatttaattt 120
ttt 123

<210> 604
<211> 110
<212> DNA
<213> Artificial Sequence

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

<220>
 <221> modified_base
 <222> (1)..(20)
 <223> a, c, t, g, unknown or other

<400> 604
 nnnnnnnnnn nnnnnnnnnn gttttgtac tctcagaaat gcagaagcta caaagataag 60
 gcttcatgcc gaaatcaaca ccctgtcatt ttatggcagg gtgttttttt 110

<210> 605
 <211> 102
 <212> DNA
 <213> Artificial Sequence

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

<220>
 <221> modified_base
 <222> (1)..(20)
 <223> a, c, t, g, unknown or other

<400> 605
 nnnnnnnnnn nnnnnnnnnn gtttttagagc tagaaatagc aagttaaaat aaggctagtc 60
 cgttatcaac ttgaaaaagt ggcaccgagt cggtgctttt tt 102

<210> 606
 <211> 87
 <212> DNA
 <213> Artificial Sequence

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

<220>
 <221> modified_base
 <222> (1)..(20)
 <223> a, c, t, g, unknown or other

<400> 606
 nnnnnnnnnn nnnnnnnnnn gtttttagagc tagaaatagc aagttaaaat aaggctagtc 60
 cgttatcaac ttgaaaaagt tttttttt 87

<210> 607
<211> 76
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (1)..(20)
<223> a, c, t, g, unknown or other

<400> 607
nnnnnnnnnnn nnnnnnnnnn gttttagagc tagaaatagc aagttaaaat aaggctagtc 60

cgttatcatt tttttt 76

<210> 608
<211> 28
<212> DNA
<213> Homo sapiens

<400> 608
gggcagtaac ggcagacttc tcctcagg 28

<210> 609
<211> 28
<212> DNA
<213> Homo sapiens

<400> 609
tggggcaagg tgaacgtgga tgaagttg 28

<210> 610
<211> 28
<212> DNA
<213> Homo sapiens

<400> 610
agagtcaggt gcaccatggt gtctgttt 28

<210> 611
<211> 28
<212> DNA
<213> Homo sapiens

<400> 611

gtggagaagt ctgccgttac tgccctgt 28

<210> 612
<211> 28
<212> DNA
<213> Homo sapiens

<400> 612
acaggagtca ggtgcaccat ggtgtctg 28

<210> 613
<211> 28
<212> DNA
<213> Homo sapiens

<400> 613
gagaagtctg ccgttactgc cctgtggg 28

<210> 614
<211> 28
<212> DNA
<213> Homo sapiens

<400> 614
taacggcaga cttctccaca ggagtcag 28

<210> 615
<211> 28
<212> DNA
<213> Homo sapiens

<400> 615
gccctgtggg gcaaggtgaa cgtggatg 28

<210> 616
<211> 28
<212> DNA
<213> Homo sapiens

<400> 616
cacagggcag taacggcaga cttctcct 28

<210> 617
<211> 28
<212> DNA
<213> Homo sapiens

<400> 617

ggcaaggtga acgtggatga agttggtg 28

<210> 618
<211> 28
<212> DNA
<213> Homo sapiens

<400> 618
atcccatgga gaggtggctg ggaaggac 28

<210> 619
<211> 28
<212> DNA
<213> Homo sapiens

<400> 619
atattgcaga caataacccc tttaacct 28

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<400> 633
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<400> 635

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<400> 638
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<400> 647

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16

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<211> 16

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<220>

<223> Description of Unknown:
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<400> 648

ccccactgtg gggtagg

16

<210> 649

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<223> Description of Unknown:
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acccgcagtc ccagcgtcgt ggtgagcc

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<223> Description of Unknown:
HPRT sequence

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<223> Description of Unknown:
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<223> Description of Unknown:
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<223> Description of Unknown:
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<400> 654
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<400> 655

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<220>
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<400> 659
ctgggatgaa ctctgggcag aattcaca 28

<210> 660
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 <220>
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 HPRT sequence

 <400> 660
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 <210> 661
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 <220>
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 <400> 661
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 <400> 662
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 <400> 663
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 <210> 664

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 <400> 664
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 <400> 665
 gtggggtaat tgatccatgt atgccatt 28

 <210> 666
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 <400> 666
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 <210> 667
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 <400> 667
 atcaactgga gttggactgt aataccag 28

 <210> 668
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HPRT sequence

<400> 668

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<210> 669

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<400> 669

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<210> 670

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<400> 670

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<210> 671

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<210> 672

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<400> 672

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<210> 673

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gtgacgatga ggcctctgct accgtgtc	28

<210> 692
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 <400> 692
 ggggagacag ggcaaggctg gcagagag 28

 <210> 693
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 <400> 693
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 <210> 694
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 <400> 694
 attagaagtg aagtctggaa ataaaacc 28

 <210> 695
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 <213> Unknown

 <220>
 <223> Description of Unknown:
 CFTR sequence

 <400> 695
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 <210> 696
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 <212> DNA
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 <220>
 <223> Description of Unknown:
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<400> 696
catcatagga aacaccaaag atgatatt 28

<210> 697
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<223> Description of Unknown:
CFTR sequence

<400> 697
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<210> 698
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<212> DNA
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<220>
<223> Description of Unknown:
CFTR sequence

<400> 698
gctttgatga cgcttctgta tctatatt 28

<210> 699
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<220>
<223> Description of Unknown:
CFTR sequence

<400> 699
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<210> 700
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<220>
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CFTR sequence

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cctatgatga atatagatac agaagcgt 28

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<210> 702	
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<400> 702	
ctatggactt caagagcaac agtgctgt	28
<210> 703	
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<400> 703	
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<210> 704	
<211> 28	
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<400> 704	
gtgctgtggc ctggagcaac aaatctga	28

<210> 705
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 <223> Description of Unknown:
 TRAC sequence

 <400> 705
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 <210> 706
 <211> 28
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 <220>
 <223> Description of Unknown:
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 <400> 706
 gctgtggcct ggagcaacaa atctgact 28

 <210> 707
 <211> 28
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 <223> Description of Unknown:
 TRAC sequence

 <400> 707
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 <210> 708
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 <223> Description of Unknown:
 TRAC sequence

 <400> 708
 ctgtggcctg gagcaacaaa tctgactt 28

 <210> 709
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<212> DNA
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<220>
 <223> Description of Unknown:
 TRAC sequence

<400> 709
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<210> 710
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<220>
 <223> Description of Unknown:
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<400> 710
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<210> 711
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 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown:
 TRAC sequence

<400> 711
 tgaaagtggc cgggtttaat ctgctcat 28

<210> 712
 <211> 28
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown:
 TRAC sequence

<400> 712
 aggaggattc ggaaccaat cactgaca 28

<210> 713
 <211> 28
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown:
 TRAC sequence

<400> 713
 gaggaggatt cggaacccaa tcactgac 28

<210> 714
 <211> 28
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown:
 TRBC sequence

<400> 714
 ccgtagaact ggacttgaca gcggaagt 28

<210> 715
 <211> 28
 <212> DNA
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<220>
 <223> Description of Unknown:
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<400> 715
 tctcggagaa tgacgagtgg acccagga 28

<210> 716
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<400> 716
 ccagggcgcc tgtgggatct gcatgcct 28

<210> 717
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<400> 717
 cagtcgtctg ggcggtgcta caactggg 28

<210> 718

<211> 28
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 <213> Homo sapiens

 <400> 718
 gaacacaggc acggctgagg ggtcctcc 28

 <210> 719
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 <400> 719
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 <210> 720
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 <400> 720
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 <210> 721
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 <400> 721
 acagtgcctc ggcaggctga cagccagg 28

 <210> 722
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 <400> 722
 acccgacct cagtggcttt gcctggag 28

 <210> 723
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 <400> 723
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 <210> 724

<211> 28
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 <210> 725
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 <400> 725
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 <400> 726
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 <210> 727
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 <400> 727
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 <210> 728
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 <400> 728
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 <210> 729
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 <210> 730

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 <400> 730
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 <210> 731
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 <400> 731
 cggcggacac cgcggtcag atcaccca 28

 <210> 732
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 <400> 732
 aggtggatgc ccaggacgag ctttgagg 28

 <210> 733
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 <400> 733
 agggagcaga agcagcgag cagcgcca 28

 <210> 734
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 <400> 734
 ctggaggtgg atgcccagga cgagcttt 28

 <210> 735
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 <400> 735
 gagcagaagc agcgagcag cgccacct 28

 <210> 736

<211> 28
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 <400> 736
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 <210> 737
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 <400> 737
 cctaggaggt catgggcatt tgccatgc 28

 <210> 738
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 <400> 738
 tcgcggcgtc gctgtcgaac cgcacgaa 28

 <210> 739
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 <400> 739
 ccaagagggg agccgcggga gccgtggg 28

 <210> 740
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 <400> 740
 gaaataaggc atactggtat tactaatg 28

 <210> 741
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 <400> 741
 gaggagagca ggccgattac ctgaccca 28

 <210> 742

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 <400> 742
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 <210> 743
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 <400> 743
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 <210> 744
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 <220>
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 <400> 744
 agaaggctgt gggctcctca gagaaaat 28

 <210> 745
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 <220>
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 TAP1 sequence

 <400> 745
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 <210> 746
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<213> Unknown

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<223> Description of Unknown:
TAP2 sequence

<400> 746
ttgcggatcc gggagcagct tttctcct 28

<210> 747
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<220>

<223> Description of Unknown:
TAP2 sequence

<400> 747
ttgattcgag acatggtgta ggtgaagc 28

<210> 748
<211> 28
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<223> Description of Unknown:
Tapasin sequence

<400> 748
ccacagccag agcctcagca ggagcctg 28

<210> 749
<211> 28
<212> DNA
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<223> Description of Unknown:
Tapasin sequence

<400> 749
cgcaagaggc tggagaggct gaggactg 28

<210> 750
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<220>
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 Tapasin sequence

<400> 750
 ctggatgggg cttggctgat ggtcagca 28

<210> 751
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<220>
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 Tapasin sequence

<400> 751
 gcccgcgggc agttctgcgc ggggggtca 28

<210> 752
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<220>
 <223> Description of Unknown:
 CIITA sequence

<400> 752
 gctcccaggc agcgggcggg aggctgga 28

<210> 753
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 <212> DNA
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<220>
 <223> Description of Unknown:
 CIITA sequence

<400> 753
 ctactcgggc catcggcggc tgcctcgg 28

<210> 754
 <211> 28
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown:

RFX5 sequence

<400> 754
ttgatgtcag ggaagatctc tctgatga 28

<210> 755
<211> 28
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown:
RFX5 sequence

<400> 755
gctcgaaggc ttggtggccg gggccagt 28

<210> 756
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 756
gtctgccgtt actgccctgt ggg 23

<210> 757
<211> 23
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<213> Artificial Sequence

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

<400> 757
gtaacggcag acttcacctc agg 23

<210> 758
<211> 23
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<213> Artificial Sequence

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

<400> 758
gcaatatgaa tcccatggag agg 23

<210> 759
<211> 23
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 759
gcatattctg cactcatccc agg 23

<210> 760
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 760
gggccccttc ccggacacac agg 23

<210> 761
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 761
gcaggtctgg ggcgcgccac cgg 23

<210> 762
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 762
ggcccccgag cccaaggcgc tgg 23

<210> 763	
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<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 763	
gcgctgcaac cgggtgtaccc ggg	23
<210> 764	
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<212> DNA	
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<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 764	
gcattgagat agtgtgggga agg	23
<210> 765	
<211> 23	
<212> DNA	
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<223> Description of Artificial Sequence: Synthetic oligonucleotide	
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gctattggtc aaggcaaggc tgg	23
<210> 766	
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<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 766	
gtgttcatct ttggttttgt ggg	23

<210> 767
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

 <400> 767
 ggtcctgccg ctgcttgtca tgg 23

 <210> 768
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

 <400> 768
 gcttctaccc caatgacttg tgg 23

 <210> 769
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

 <400> 769
 gcctctgact gttggtggcg tgg 23

 <210> 770
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

 <400> 770
 gccgtggcaa actggtactt tgg 23

 <210> 771
 <211> 23

<212> DNA
 <213> Artificial Sequence

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

 <400> 771
 ggggccacta gggacaggat tgg 23

 <210> 772
 <211> 23
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 772
 gtcaccaatc ctgtccctag tgg 23

 <210> 773
 <211> 23
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 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 773
 gtggcccccac tgtgggggtgg agg 23

 <210> 774
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

 <400> 774
 gtcggcatga cgggaccggt cgg 23

 <210> 775
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 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 775
 gatgtgatga aggagatggg agg 23

<210> 776
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 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 776
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<210> 777
 <211> 23
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 777
 gtcgccataa cggagccggc cgg 23

<210> 778
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<220>
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 778
 gtattgcaaa aggtaggaaa agg 23

<210> 779
 <211> 23
 <212> DNA
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<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 779

gcataatctgg gatgaactct ggg

23

<210> 780

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 780

gcctcctggc catgtgcaca ggg

23

<210> 781

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 781

gaagctgatg atttaagctt tgg

23

<210> 782

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 782

gatcaattac cccacctggg tgg

23

<210> 783

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 783
gatgtcttta cagagacaag agg 23

<210> 784
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 784
gatcaacagc acaggttttg tgg 23

<210> 785
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 785
gtcagggtac taggggtatg ggg 23

<210> 786
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 786
gtcagcaatc tttgcaatga tgg 23

<210> 787
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 787

gtctgggacg caaggcgccg tgg 23

<210> 788

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 788

ggaggcctcg ggccgactcg cgg 23

<210> 789

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 789

gccggtgata tgggcttcct ggg 23

<210> 790

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 790

gagactgtga ggcggcagct ggg 23

<210> 791

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 791

ggctcagcca ggtagtactg tgg 23

<210> 792
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

 <400> 792
 gaaccctactg ggtgacgatg agg 23

 <210> 793
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

 <400> 793
 gccctgtctc ccccatgtcc agg 23

 <210> 794
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

 <400> 794
 gggagaactg gagccttcag agg 23

 <210> 795
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

 <400> 795
 gagggtaaaa ttaagcacag tgg 23

 <210> 796

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

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

 <400> 796
 gagaatcaaa atcggatgaat agg 23

 <210> 797
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

 <400> 797
 gacacattct tccccagccc agg 23

 <210> 798
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

 <400> 798
 gattaaaccc ggccactttc agg 23

 <210> 799
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

 <400> 799
 gctgtcaagt ccagttctac ggg 23

 <210> 800
 <211> 23
 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 800

ggcgccctgg ccagtcgtct ggg

23

<210> 801

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 801

gtccacagag aacacaggca cgg

23

<210> 802

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 802

gcttcggcag gctgacagcc agg

23

<210> 803

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 803

gtaccaccg ccatactacc tgg

23

<210> 804

<211> 23

<212> DNA

<213> Artificial Sequence

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

<400> 804
 gctgacgacgt ggggtcggac ggg 23

<210> 805
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

<400> 805
 gcagccatac attatctgga tgg 23

<210> 806
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

<400> 806
 gcagccatac atcctctgga cgg 23

<210> 807
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

<400> 807
 gtggatagag caggaggggc cgg 23

<210> 808
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

oligonucleotide

<400> 808
gagccagagg atggagccgc ggg 23

<210> 809
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 809
ggacctgagc tcctggaccg cgg 23

<210> 810
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 810
gatgcccagg acgagctttg agg 23

<210> 811
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 811
gcgctgcttc tgctccctgg agg 23

<210> 812
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 812
ggggattcaa gggaacaccc tgg 23

<210> 813
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 813
gcaaatgccc atgacctcct agg 23

<210> 814
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 814
ggcgcccgcg gctcccctct tgg 23

<210> 815
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 815
gttcacatct cccccgggcc tgg 23

<210> 816
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 816
ggagaatgcg ggggaaagag agg 23

<210> 817	
<211> 23	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 817	
gcccacagcc ttctgtactc tgg	23
<210> 818	
<211> 23	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 818	
gttgattcga gacatggtgt agg	23
<210> 819	
<211> 23	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 819	
gctctggctg tggtcgcaag agg	23
<210> 820	
<211> 23	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 820	
gcagaactgc ccgcgggccc tgg	23

<210> 821
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 821
gctgcctggg agccctactc ggg 23

<210> 822
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 822
gccttcgagc tttgatgtca ggg 23

<210> 823
<211> 573
<212> DNA
<213> Mus musculus

<400> 823
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tttaaaatag ttaaattttc ctttagtgct gatttctaga ttattattac tgttggtgtt 120
gttattattg tcattatttg catctgagaa cccttaggtg gttatattat tgatatattt 180
ttggtatctt tgatgacaat aatgggggat tttgaaagct tagctttaaa tttcttttaa 240
ttaaaaaaaaa 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> 824

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

<400> 824

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cagcatatta cagttagttg tcttcatcaa tctttaaata tgttgtgtgg tttttctctc	120
cctgtttcca cagacaagag tgagatcgcc catcgggtata atgatttggg agaacaacat	180
ttcaaaggcc tgtaagttat aatgctgaaa gccacttaa tatttctggt 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 cttttcctgg	480
agagagaatc tggagcccac atctaacttg ttaagtctgg aatcttattt tttatttctg	540
gaaaggctta tgaactatag ttttgggggc agctcactta ctaactttta atgcaataag	600
atctcatggt atcttgagaa cattattttg tctctttgta gtactgaaac cttatacatg	660
tgaagtaagg ggtctatact taagtcacat ctccaacctt agtaatgttt taatgtagta	720
aaaaaatgag taattaattt attttttagaa ggtcaatagt atcatgtatt ccaaataaca	780
gaggatatatg 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
ctcactactga ggtttttgtg tctgcttttc agagtcctga ttgccttttc ccagtatctc	1140
cagaaatgct catacgatga gcatgccaaa ttagtgcagg aagtaacaga ctttgcaaag	1200
acgtgtgttg ccgatgagtc tgccgccaac tgtgacaaat cccttgtgag taccttctga	1260
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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 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> 825

<211> 1301

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown:

promoter-less Factor IX coding sequence

<400> 825

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acagtggcaa gctggaggaa tttgtgcagg gcaacctgga aagagaatgc atggaggaga	120
agtgtcatt tgaagaggcc agggagggtct ttgagaacac agagaggacc acagagttct	180
ggaagcagta tgtggatggg gaccagtgtg agagcaaccc ctgccttaat gggggcagct	240
gtaaagatga tattaatagc tatgaatgct ggtgcccctt tggatttgag gggaaaaact	300
gtgaattgga tgttacttgc aacatcaaaa atggtagatg tgagcagttc tgcaagaact	360
ctgcagacaa taaagtggtc tgctcctgca ctgaagggtg cagactggca gaaaaccaga	420
agagttgtga gccagctgtg cccttcccct gtggcagagt ttctgtgagc cagaccagca	480
aactcaccag agctgaggct gtctttccag atgtggacta tgtgaactcc acagaagctg	540
agactatcct ggacaacatt actcagagca ccagtcctt caatgacttc acaagggtgg	600
ttggaggaga agatgccaag ccagggcagt ttccctggca ggtggtactg aatggaaaag	660
ttgatgcttt ctgtggaggg agcattgtga atgaaaaatg gattgtcact gctgccact	720

gtgtggaaac tggggtgaag atcactgtgg tggctgggga gcataatatt gaagaaacag	780
agcacactga acagaaaaga aatgtgatca ggatcatccc ccaccacaac tacaatgcag	840
ccatcaacaa atacaaccat gacattgccc tgctggagct ggatgagccc ctggtgctga	900
acagctatgt gacccccatc tgtattgctg acaaggagta cacaaatatc ttcctgaagt	960
ttggctctgg ctatgtgagt ggctggggca gagtgttcca caagggaaga tctgccctgg	1020
tgctgcagta cctgagggtg ccactgggtg acagggccac ctgcctgagg agcacaaagt	1080
tcaccattta taacaacatg ttttgtgctg gcttccatga gggaggcagg gacagctgcc	1140
aggagattc tggagggccc catgtgactg aggtggaggg cacctccttt ctgacaggca	1200
ttatcagctg gggagaggag tgtgccatga agggcaagta tggcatctac accaaggtgt	1260
ccagatatgt caactggatc aaggaaaaga ccaaactgac c	1301

<210> 826

<211> 1350

<212> DNA

<213> Homo sapiens

<400> 826

taggaggctg aggcaggagg atcgcttgag cccaggagtt cgagaccagc ctgggcaaca	60
tagtgtgatc ttgtatctat aaaaataaac aaaattagct tgggtgtggtg 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 tttatttgggt	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 cctgcaaaaa aatcaatgtg aagcaaatcg cagcccgctt cctgcctccg	720
ctctactcac tgggtgttcat 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
gctttaaaaag ccaggacggt cacctttggg gtggtgacaa gtgtgatcac ttgggtggtg	1080
gctgtgtttg cgtctctccc aggaatcatc tttaccagat ctcaaaaaga aggtcttcat	1140
tacacctgca gctctcattt tccatacagt cagtatcaat tctggaagaa tttccagaca	1200
ttaaagatag tcatcttggg gctggctctg ccgctgcttg tcatgggtcat ctgctactcg	1260
ggaatcctaa aaactctgct tcggtgtcga aatgagaaga agaggcacag ggctgtgagg	1320
cttatcttca ccatcatgat tgtttatttt	1350

<210> 827

<211> 1223

<212> DNA

<213> Homo sapiens

<400> 827

tgacagagac tcttgggatg acgcactgct gcatcaaccc catcatctat gcctttgtcg	60
gggagaagtt cagaaactac ctcttagtct tcttccaaaa gcacattgcc aaacgcttct	120
gcaaatgctg ttctattttc cagcaagagg ctcccagcg agcaagctca gtttacaccc	180
gatccactgg ggagcaggaa atatctgtgg gcttgtgaca cggactcaag tgggctggtg	240
accagtcag agttgtgcac atggcttagt tttcatacac agcctgggct gggggtgggg	300
tgggagaggt cttttttaa aggaagttac tgttatagag ggtctaagat tcatccattt	360
at ttggcatc tgtttaaagt agattagatc ttttaagccc atcaattata gaaagccaaa	420
tcaaaatatg ttgatgaaaa atagcaacct ttttatctcc cttcacatg catcaagtta	480
ttgacaaact ctcccttcac tccgaaagtt ctttatgtat atttaaaaga aagcctcaga	540
gaattgctga ttcttgagtt tagtgatctg aacagaaata ccaaattat ttcagaaatg	600
tacaactttt tacctagtac aaggcaacat ataggttgta aatgtgttta aaacaggtct	660
ttgtcttgct atggggagaa aagacatgaa tatgattagt aaagaaatga cacttttcat	720
gtgtgatttc ccctccaagg tatggttaat aagtttctact gacttagaac caggcgagag	780
acttgtggcc tgggagagct ggggaagctt cttaaagag aaggaatttg agttggatca	840

tctattgctg gcaaagacag aagcctcact gcaagcactg catgggcaag cttggctgta	900
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accttgacgg cattgctccg tctaagtcac gagctgagca gggagatcct ggttggtggt	1020
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gaccaccaac agccctcagg tcagggtgag gatggcctct gctaagctca aggcgtgagg	1140
atgggaagga gggaggtatt cgtaaggatg ggaaggaggg aggtattcgt gcagcatatg	1200
aggatgcaga gtcagcagaa ctg	1223

<210> 828

<211> 1515

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 828

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aagcagttcc tgccccggct cagggccaaag aacagatggt cccagatgc ggtcccgccc	180
tcagcagttt ctagagaacc atcagatggt tccagggtgc cccaaggacc tgaaatgacc	240
ctgtgcctta tttgaactaa ccaatcagtt cgcttctcgc ttctgttcgc gcgcttctgc	300
tccccgagct ctatataagc agagctcgtt tagtgaaccg tcagatcgcc tggagacgcc	360
atccacgctg ttttgacttc catagaagga tctcgaggcc accatggtga gcaagggcga	420
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caagttcagc gtgtccggcg agggcgaggg cgatgccacc tacggcaagc tgaccctgaa	540
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ctacaagacc cgcgccgagg tgaagttcga gggcgacacc ctggtgaacc gcacagagct	780
gaagggcatc gacttcaagg aggacggcaa catcctgggg cacaagctgg agtacaacta	840
caacagccac aacgtctata tcatggccga caagcagaag aacggcatca aggtgaactt	900

caagatccgc cacaacatcg aggacggcag cgtgcagctc gccgaccact accagcagaa	960
cacccccatc ggcgacggcc ccgtgctgct gcccgacaac cactacctga gcaccagtc	1020
cgccctgagc aaagacccca acgagaagcg cgatcacatg gtcctgctgg agttcgtgac	1080
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tggattacaa aatttgtgaa agattgactg gtattcttaa ctatgttgct ctttttacgc	1200
tatgtggata cgctgcttta atgcctttgt atcatgctat tgcttcccgt atggctttca	1260
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cttgctttat ttgtgaaatt tgtgatgcta ttgctttatt tgtaaccatt ataagctgca	1440
ataaacaagt taacaacaac aattgcattc attttatgtt tcaggttcag ggggaggtgt	1500
gggaggtttt ttaaa	1515

<210> 829

<211> 4107

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown:
Cas9 sequence

<400> 829

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atcactgatg aatataaggt tccgtctaaa aagttcaagg ttctgggaaa tacagaccgc	120
cacagtatca aaaaaaatct tataggggct cttttatttg acagtggaga gacagcggaa	180
gcgactcgtc tcaaacggac agctcgtaga aggtatacac gtcggaagaa tcgtatttgt	240
tatctacagg agattttttc aaatgagatg gcgaaagtag atgatagttt ctttcatcga	300
cttgaagagt cttttttggt ggaagaagac aagaagcatg aacgtcatcc tatttttgga	360
aatatagtag atgaagttgc ttatcatgag aaatatccaa ctatctatca tctgcgaaaa	420
aaattggtag attctactga taaagcggat ttgcgcttaa tctatttggc cttagcgcatt	480
atgattaagt ttcgtggtca ttttttgatt gagggagatt taaatcctga taatagtgat	540
gtggacaaac tatttatcca gttggtacaa acctacaatc aattatttga agaaaaccct	600

attaacgcaa gtggagtaga tgctaaagcg attctttctg cacgattgag taaatcaaga	660
cgattagaaa atctcattgc tcagctcccc ggtgagaaga aaaatggctt atttgggaat	720
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caaattggag atcaatatgc tgatttggtt ttggcagcta agaatttatc agatgctatt	900
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cacctctttg atgataaggt gatgaaacag cttaaacgtc gccgttatac tggttgggga	1980
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gtaaaagttg ttgatgaatt ggtcaaagta atggggcggc ataagccaga aaatatcggt	2280
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aactattgga gacaacttct aaacgccaag ttaatcactc aacgtaagtt tgataattta	2700
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cattatgaaa agttgaagg tagtccagaa gataacgaac aaaaacaatt gtttgtggag	3780
cagcataagc attatttaga tgagattatt gagcaaatca gtgaattttc taagcgtgtt	3840

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cccgctgctt ttaaataatth tgatacaaca attgatcgta aacgatatac gtctacaaaa	4020
gaagtttttag atgccactct tatccatcaa tccatcactg gtctttatga aacacgcatt	4080
gatttgagtc agctaggagg tgactga	4107

<210> 830
 <211> 215
 <212> DNA
 <213> Artificial Sequence

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

<400> 830	
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caccagcgc gcgtgcgccc tggcaggaag atggctgtga gggacagggg agtggcgccc	120
tgcaatattt gcatgtcgct atgtgttctg ggaaatcacc ataaacgtga aatgtctttg	180
gatttgggaa tcttataagt tctgtatgag accac	215

<210> 831
 <211> 1876
 <212> DNA
 <213> Artificial Sequence

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

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gccgccagat tctgacatgg atctgaatct gattgagcag gcaccctga ccgtggccga	180
gaagctgcag cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct	240
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caccgggggtg aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat	360
tcagagaatt taccgcggga tcgagccgac tttgcaaac tggttcgcgg tcacaaagac	420

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cgcctgtttg aatctcacgg agcgtaaacg gttggtggcg cagcatctga cgcacgtgtc	600
gcagacgcag gagcagaaca aagagaatca gaatcccaat tctgatgcgc cggatgatcag	660
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tcaaccggtt tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat	1800
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<210> 832

<211> 7116

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

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attaagcgcg gcgggtgtgg tggttacgcg cagcgtgacc gctacacttg ccagcgccct	180
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ggcctattgg ttaaaaaatg agctgattta acaaaaattt aacgcgaatt ttaacaaaat	540
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tttatTTTT taaatacatt caaatatgta tccgctcatg agacaataac cctgataaat	660
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