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 cgacgcccgg gctttgcccg 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
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgggcgacc aaaggtcgcc cgacgcccgg gcggcctcag tgagcgagcg agcgcgcagc 120

tgcctgcagg 130

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

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

<400> 3
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ttggccattg catacgttgt atctatatca taatatgtac atttatattg gctcatgtcc 120

aatatgaccg ccatgttggc attgattatt gactagttat taatagtaat caattacggg 180

gtcattagtt catagcccat atatggagtt ccgcgttaca taacttacgg taaatggccc 240

gcctggctga ccgcccaacg acccccgccc attgacgtca ataatgacgt atgttcccat 300

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cttcactctc cccatctccc ccccctcccc acccccaatt ttgtatttat ttatttttta 600

attattttgt gcagcgatgg gggcgggggg gggggggggg cgcgcgccag gcggggcggg 660

gcggggcgag gggcggggcg gggcgaggcg gagaggtgcg gcggcagcca atcagagcgg 720

cgcgctccga aagtttcctt ttatggcgag gcggcggcgg cggcggccct ataaaaagcg 780

aagcgcgcgg cgggcgggag tcgctgcgac gctgccttcg ccccgtgccc cgctccgccg 840

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ttctttttcc tacagctcct gggcaacgtg ctggttattg tgctgtctca tcatttgtcg 1860

acagaattcc tcgaagatcc gaaggggttc aagcttggca 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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ccatcctcca gcagctgttt gtgtgctgcc tctgaagtcc acactgaaca aacttcagcc 120

tactcatgtc cctaaaatgg gcaaacattg caagcagcaa acagcaaaca cacagccctc 180

cctgcctgct gaccttggag ctggggcaga ggtcagagac ctctctgggc ccatgccacc 240

tccaacatcc actcgacccc ttggaatttc ggtggagagg agcagaggtt gtcctggcgt 300

ggtttaggta gtgtgagagg gtccgggttc aaaaccactt gctgggtggg gagtcgtcag 360

taagtggcta tgccccgacc ccgaagcctg tttccccatc tgtacaatgg aaatgataaa 420

gacgcccatc tgatagggtt tttgtggcaa ataaacattt ggtttttttg ttttgttttg 480

ttttgttttt tgagatggag gtttgctctg tcgcccaggc tggagtgcag tgacacaatc 540

tcatctcacc acaaccttcc cctgcctcag cctcccaagt agctgggatt acaagcatgt 600

gccaccacac ctggctaatt ttctattttt agtagagacg ggtttctcca tgttggtcag 660

cctcagcctc ccaagtaact gggattacag gcctgtgcca ccacacccgg ctaatttttt 720

ctatttttga cagggacggg gtttcaccat gttggtcagg ctggtctaga ggtaccggat 780

cttgctacca gtggaacagc cactaaggat tctgcagtga gagcagaggg ccagctaagt 840

ggtactctcc cagagactgt ctgactcacg ccacccccctc caccttggac acaggacgct 900

gtggtttctg agccaggtac aatgactcct ttcggtaagt gcagtggaag ctgtacactg 960

cccaggcaaa gcgtccgggc agcgtaggcg ggcgactcag atcccagcca gtggacttag 1020

cccctgtttg ctcctccgat aactggggtg accttggtta atattcacca gcagcctccc 1080

ccgttgcccc tctggatcca ctgcttaaat acggacgagg acagggccct gtctcctcag 1140

cttcaggcac caccactgac ctgggacagt gaatccggac tctaaggtaa atataaaatt 1200

tttaagtgta taatgtgtta aactactgat tctaattgtt tctctctttt agattccaac 1260

ctttggaact ga 1272

<210> 5
<211> 547
<212> DNA
<213> Artificial Sequence

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

<400> 5
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tgaccttgga gctggggcag aggtcagaga cctctctggg cccatgccac ctccaacatc 120

cactcgaccc cttggaattt ttcggtggag aggagcagag gttgtcctgg cgtggtttag 180

gtagtgtgag aggggaatga ctcctttcgg taagtgcagt ggaagctgta cactgcccag 240

gcaaagcgtc cgggcagcgt aggcgggcga ctcagatccc agccagtgga cttagcccct 300

gtttgctcct ccgataactg gggtgacctt ggttaatatt caccagcagc ctcccccgtt 360

gcccctctgg atccactgct taaatacgga cgaggacagg gccctgtctc ctcagcttca 420

ggcaccacca ctgacctggg acagtgaatc cggactctaa ggtaaatata aaatttttaa 480

gtgtataatg tgttaaacta ctgattctaa ttgtttctct cttttagatt ccaacctttg 540

gaactga 547

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

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

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ggaggggtcg gcaattgaac cggtgcctag agaaggtggc gcggggtaaa ctgggaaagt 120

gatgtcgtgt actggctccg cctttttccc gagggtgggg gagaaccgta tataagtgca 180

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gtgtgtggtt cccgcgggcc tggcctcttt acgggttatg gcccttgcgt gccttgaatt 300

acttccacct ggctgcagta cgtgattctt gatcccgagc ttcgggttgg aagtgggtgg 360

gagagttcga ggccttgcgc ttaaggagcc ccttcgcctc gtgcttgagt tgaggcctgg 420

cctgggcgct ggggccgccg cgtgcgaatc tggtggcacc ttcgcgcctg tctcgctgct 480

ttcgataagt ctctagccat ttaaaatttt tgatgacctg ctgcgacgct ttttttctgg 540

caagatagtc ttgtaaatgc gggccaagat ctgcacactg gtatttcggt ttttggggcc 600

gcgggcggcg acggggcccg tgcgtcccag cgcacatgtt cggcgaggcg gggcctgcga 660

gcgcggccac cgagaatcgg acgggggtag tctcaagctg gccggcctgc tctggtgcct 720

ggtctcgcgc cgccgtgtat cgccccgccc tgggcggcaa ggctggcccg gtcggcacca 780

gttgcgtgag cggaaagatg gccgcttccc ggccctgctg cagggagctc aaaatggagg 840

acgcggcgct cgggagagcg ggcgggtgag tcacccacac aaaggaaaag ggcctttccg 900

tcctcagccg tcgcttcatg tgactccacg gagtaccggg cgccgtccag gcacctcgat 960

tagttctcga gcttttggag tacgtcgtct ttaggttggg gggaggggtt ttatgcgatg 1020

gagtttcccc acactgagtg ggtggagact gaagttaggc cagcttggca cttgatgtaa 1080

ttctccttgg aatttgccct ttttgagttt ggatcttggt tcattctcaa gcctcagaca 1140

gtggttcaaa gtttttttct tccatttcag gtgtcgtga 1179

<210> 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 gggtatacat 60

ttaaatgtta ataaaacaaa atggtggggc aatcatttac atttttaggg atatgtaatt 120

actagttcag gtgtattgcc acaagacaaa catgttaaga aactttcccg ttatttacgc 180

tctgttcctg ttaatcaacc tctggattac aaaatttgtg aaagattgac tgatattctt 240

aactatgttg ctccttttac gctgtgtgga tatgctgctt tatagcctct gtatctagct 300

attgcttccc gtacggcttt cgttttctcc tccttgtata aatcctggtt gctgtctctt 360

ttagaggagt tgtggcccgt tgtccgtcaa cgtggcgtgg tgtgctctgt gtttgctgac 420

gcaaccccca ctggctgggg cattgccacc acctgtcaac tcctttctgg gactttcgct 480

ttccccctcc cgatcgccac ggcagaactc atcgccgcct gccttgcccg ctgctggaca 540

ggggctaggt tgctgggcac tgataattcc gtggtgttgt c 581

<210> 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

<400> 10
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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 tttataaaat tttggaacta 240

aacgggtacg atccccaata tgcggcttcc gtctttctgg gatgggccac gaaaaagttc 300

ggcaagagga acaccatctg gctgtttggg cctgcaacta ccgggaagac caacatcgcg 360

gaggccatag cccacactgt gcccttctac gggtgcgtaa actggaccaa tgagaacttt 420

cccttcaacg actgtgtcga caagatggtg atctggtggg aggaggggaa gatgaccgcc 480

aaggtcgtgg agtcggccaa agccattctc ggaggaagca aggtgcgcgt ggaccagaaa 540

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tgcgccgtga ttgacgggaa ctcaacgacc ttcgaacacc agcagccgtt gcaagaccgg 660

atgttcaaat ttgaactcac ccgccgtctg gatcatgact ttgggaaggt caccaagcag 720

gaagtcaaag actttttccg gtgggcaaag gatcacgtgg ttgaggtgga gcatgaattc 780

tacgtcaaaa agggtggagc caagaaaaga cccgccccca gtgacgcaga tataagtgag 840

cccaaacggg tgcgcgagtc agttgcgcag ccatcgacgt cagacgcgga agcttcgatc 900

aactacgcag acaggtacca aaacaaatgt tctcgtcacg tgggcatgaa tctgatgctg 960

tttccctgca gacaatgcga gagaatgaat cagaattcaa atatctgctt cactcacgga 1020

cagaaagact gtttagagtg ctttcccgtg tcagaatctc aacccgtttc tgtcgtcaaa 1080

aaggcgtatc agaaactgtg ctacattcat catatcatgg gaaaggtgcc agacgcttgc 1140

actgcctgcg atctggtcaa tgtggatttg gatgactgca tctttgaaca ataaatgatt 1200

taaatcaggt atggctgccg atggttatct tccagattgg ctcgaggaca ctctctctga 1260

<210> 12
<211> 1932
<212> DNA
<213> Adeno-associated virus - 2

<400> 12
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ggcatttctg acagctttgt gaactgggtg gccgagaagg aatgggagtt gccgccagat 120

tctgacatgg atctgaatct gattgagcag gcacccctga ccgtggccga gaagctgcag 180

cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct tttctttgtg 240

caatttgaga agggagagag ctacttccac atgcacgtgc tcgtggaaac caccggggtg 300

aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat tcagagaatt 360

taccgcggga tcgagccgac tttgccaaac tggttcgcgg tcacaaagac cagaaatggc 420

gccggaggcg ggaacaaggt ggtggatgag tgctacatcc ccaattactt gctccccaaa 480

acccagcctg agctccagtg ggcgtggact aatatggaac agtatttaag cgcctgtttg 540

aatctcacgg agcgtaaacg gttggtggcg cagcatctga cgcacgtgtc gcagacgcag 600

gagcagaaca aagagaatca gaatcccaat tctgatgcgc cggtgatcag atcaaaaact 660

tcagccaggt acatggagct ggtcgggtgg ctcgtggaca aggggattac ctcggagaag 720

cagtggatcc aggaggacca ggcctcatac atctccttca atgcggcctc caactcgcgg 780

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attttggaac taaacgggta cgatccccaa tatgcggctt ccgtctttct gggatgggcc 960

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aagatgaccg ccaaggtcgt ggagtcggcc aaagccattc tcggaggaag caaggtgcgc 1200

gtggaccaga aatgcaagtc ctcggcccag atagacccga ctcccgtgat cgtcacctcc 1260

aacaccaaca tgtgcgccgt gattgacggg aactcaacga ccttcgaaca ccagcagccg 1320

ttgcaagacc ggatgttcaa atttgaactc acccgccgtc tggatcatga ctttgggaag 1380

gtcaccaagc aggaagtcaa agacttttc cggtgggcaa aggatcacgt ggttgaggtg 1440

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gatataagtg agcccaaacg ggtgcgcgag tcagttgcgc agccatcgac gtcagacgcg 1560

gaagcttcga tcaactacgc agacaggtac caaaacaaat gttctcgtca cgtgggcatg 1620

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tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat gggaaaggtg 1800

ccagacgctt gcactgcctg cgatctggtc aatgtggatt tggatgactg catctttgaa 1860

caataaatga tttaaatcag gtatggctgc cgatggttat cttccagatt ggctcgagga 1920

cactctctct ga 1932

<210> 13
<211> 1876
<212> DNA
<213> Artificial Sequence

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

<400> 13
cgcagccacc atggcggggt tttacgagat tgtgattaag gtccccagcg accttgacgg 60

gcatctgccc ggcatttctg acagctttgt gaactgggtg gccgagaagg aatgggagtt 120

gccgccagat tctgacatgg atctgaatct gattgagcag gcacccctga ccgtggccga 180

gaagctgcag cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct 240

tttctttgtg caatttgaga agggagagag ctacttccac atgcacgtgc tcgtggaaac 300

caccggggtg aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat 360

tcagagaatt taccgcggga tcgagccgac tttgccaaac tggttcgcgg tcacaaagac 420

cagaaatggc gccggaggcg ggaacaaggt ggtggatgag tgctacatcc ccaattactt 480

gctccccaaa acccagcctg agctccagtg ggcgtggact aatatggaac agtatttaag 540

cgcctgtttg aatctcacgg agcgtaaacg gttggtggcg cagcatctga cgcacgtgtc 600

gcagacgcag gagcagaaca aagagaatca gaatcccaat tctgatgcgc cggtgatcag 660

atcaaaaact tcagccaggt acatggagct ggtcgggtgg ctcgtggaca aggggattac 720

ctcggagaag cagtggatcc aggaggacca ggcctcatac atctccttca atgcggcctc 780

caactcgcgg tcccaaatca aggctgcctt ggacaatgcg ggaaagatta tgagcctgac 840

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gatttataaa attttggaac taaacgggta cgatccccaa tatgcggctt ccgtctttct 960

gggatgggcc acgaaaaagt tcggcaagag gaacaccatc tggctgtttg ggcctgcaac 1020

taccgggaag accaacatcg cggaggccat agcccacact gtgcccttct acgggtgcgt 1080

aaactggacc aatgagaact ttcccttcaa cgactgtgtc gacaagatgg tgatctggtg 1140

ggaggagggg aagatgaccg ccaaggtcgt ggagtcggcc aaagccattc tcggaggaag 1200

caaggtgcgc gtggaccaga aatgcaagtc ctcggcccag atagacccga ctcccgtgat 1260

cgtcacctcc aacaccaaca tgtgcgccgt gattgacggg aactcaacga ccttcgaaca 1320

ccagcagccg ttgcaagacc ggatgttcaa atttgaactc acccgccgtc tggatcatga 1380

ctttgggaag gtcaccaagc aggaagtcaa agacttttc cggtgggcaa aggatcacgt 1440

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cagtgacgca gatataagtg agcccaaacg ggtgcgcgag tcagttgcgc agccatcgac 1560

gtcagacgcg gaagcttcga tcaactacgc agacaggtac caaaacaaat gttctcgtca 1620

cgtgggcatg aatctgatgc tgtttccctg cagacaatgc gagagaatga atcagaattc 1680

aaatatctgc ttcactcacg gacagaaaga ctgtttagag tgctttcccg tgtcagaatc 1740

tcaacccgtt tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat 1800

gggaaaggtg ccagacgctt gcactgcctg cgatctggtc aatgtggatt tggatgactg 1860

catctttgaa caataa 1876

<210> 14
<211> 1194

<212> DNA
<213> Artificial Sequence

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

<400> 14
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gaggaccagg cctcatacat ctccttcaat gcggcctcca actcgcggtc ccaaatcaag 120

gctgccttgg acaatgcggg aaagattatg agcctgacta aaaccgcccc cgactacctg 180

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gaggccatag cccacactgt gcccttctac gggtgcgtaa actggaccaa tgagaacttt 420

cccttcaacg actgtgtcga caagatggtg atctggtggg aggaggggaa gatgaccgcc 480

aaggtcgtgg agtcggccaa agccattctc ggaggaagca aggtgcgcgt ggaccagaaa 540

tgcaagtcct cggcccagat agacccgact cccgtgatcg tcacctccaa caccaacatg 600

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gaagtcaaag actttttccg gtgggcaaag gatcacgtgg ttgaggtgga gcatgaattc 780

tacgtcaaaa agggtggagc caagaaaaga cccgccccca gtgacgcaga tataagtgag 840

cccaaacggg tgcgcgagtc agttgcgcag ccatcgacgt cagacgcgga agcttcgatc 900

aactacgcag accgctacca aaacaaatgt tctcgtcacg tgggcatgaa tctgatgctg 960

tttccctgca gacaatgcga gagaatgaat cagaattcaa atatctgctt cactcacgga 1020

cagaaagact gtttagagtg ctttcccgtg tcagaatctc aacccgtttc tgtcgtcaaa 1080

aaggcgtatc agaaactgtg ctacattcat catatcatgg gaaaggtgcc agacgcttgc 1140

actgcctgcg atctggtcaa tgtggatttg gatgactgca tctttgaaca ataa 1194

<210> 15

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

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

<400> 15
aataaacgat aacgccgttg gtggcgtgag gcatgtaaaa ggttacatca ttatcttgtt 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 cggtggagag gagcagaggt tgtcctggcg tggtttaggt 180

agtgtgagag gggaatgact cctttcggta agtgcagtgg aagctgtaca ctgcccaggc 240

aaagcgtccg ggcagcgtag gcgggcgact cagatcccag ccagtggact tagcccctgt 300

ttgctcctcc gataactggg gtgaccttgg ttaatattca ccagcagcct cccccgttgc 360

ccctctggat ccactgctta aatacggacg aggacactcg agggccctgt ctcctcagct 420

tcaggcacca ccactgacct gggacagtga atccggacat cgattctaag gtaaatataa 480

aatttttaag tgtataattt gttaaactac tgattctaat tgtttctctc ttttagattc 540

caacctttgg aactga 556

<210> 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 gtcatcaacc cgctccaagg aatcgcgggc ccagtgtcac taggcgggaa 60

cacccagcgc gcgtgcgccc tggcaggaag atggctgtga gggacagggg agtggcgccc 120

tgcaatattt gcatgtcgct atgtgttctg ggaaatcacc ataaacgtga aatgtctttg 180

gatttgggaa tcgtataaga actgtatgag accac 215

<210> 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

gccatccggt 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 cgtggtttag 180

gtagtgtgag aggggaatga ctcctttcgg taagtgcagt ggaagctgta cactgcccag 240

gcaaagcgtc cgggcagcgt aggcgggcga ctcagatccc agccagtgga cttagcccct 300

gtttgctcct ccgataactg gggtgacctt ggttaatatt caccagcagc ctcccccgtt 360

gcccctctgg atccactgct taaatacgga cgaggacagg gccctgtctc ctcagcttca 420

ggcaccacca ctgacctggg acagtgaatc cggactctaa ggtaaatata aaatttttaa 480

gtgtataatg tgttaaacta ctgattctaa ttgtttctct cttttagatt ccaacctttg 540

gaactg 546

<210> 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 gctccccagc aggcagaagt atgcaaagca 120

tgcatctcaa ttagtcagca accatagtcc cgcccctaac tccgcccatc ccgcccctaa 180

ctccgcccag ttccgcccat tctccgcccc atggctgact aatttttttt atttatgcag 240

aggccgaggc cgcctcggcc tctgagctat tccagaagta gtgaggaggc ttttttggag 300

gcctaggctt ttgcaaa 317

<210> 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 aaactgccca cttggcagta catcaagtgt atcatatgcc aagtacgccc 240

cctattgacg tcaatgacgg taaatggccc gcctggcatt atgcccagta catgacctta 300

tgggactttc ctacttggca gtacatctac gtattagtca tcgctattac catggtgatg 360

cggttttggc agtacatcaa tgggcgtgga tagcggtttg actcacgggg atttccaagt 420

ctccacccca ttgacgtcaa tgggagtttg ttttggcacc aaaatcaacg ggactttcca 480

aaatgtcgta acaactccgc cccattgacg caaatgggcg gtaggcgtgt acggtgggag 540

gtctatataa gcagagctgg tttagtgaac cgtcag 576

<210> 24
<211> 1313
<212> DNA
<213> Artificial Sequence

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

<400> 24
ggagccgaga gtaattcata caaaaggagg gatcgccttc gcaaggggag agcccaggga 60

ccgtccctaa attctcacag acccaaatcc ctgtagccgc cccacgacag cgcgaggagc 120

atgcgcccag ggctgagcgc gggtagatca gagcacacaa gctcacagtc cccggcggtg 180

gggggagggg cgcgctgagc gggggccagg gagctggcgc ggggcaaact gggaaagtgg 240

tgtcgtgtgc tggctccgcc ctcttcccga gggtgggggа gaacggtata taagtgcggt 300

agtcgccttg gacgttcttt ttcgcaacgg gtttgccgtc agaacgcagg tgagtggcgg 360

gtgtggcttc cgcgggcccc ggagctggag ccctgctctg agcgggccgg gctgatatgc 420

gagtgtcgtc cgcagggttt agctgtgagc attcccactt cgagtggcgg gcggtgcggg 480

ggtgagagtg cgaggcctag cggcaacccc gtagcctcgc ctcgtgtccg gcttgaggcc 540

tagcgtggtg tccgccgccg cgtgccactc cggccgcact atgcgttttt tgtccttgct 600

gccctcgatt gccttccagc agcatgggct aacaaaggga gggtgtgggg ctcactctta 660

aggagcccat gaagcttacg ttggatagga atggaagggc aggaggggcg actggggccc 720

gcccgccttc ggagcacatg tccgacgcca cctggatggg gcgaggcctg tggctttccg 780

aagcaatcgg gcgtgagttt agcctacctg ggccatgtgg ccctagcact gggcacggtc 840

tggcctggcg gtgccgcgtt cccttgcctc ccaacaaggg tgaggccgtc ccgcccggca 900

ccagttgctt gcgcggaaag atggccgctc ccggggccct gttgcaagga gctcaaaatg 960

gaggacgcgg cagcccggtg gagcgggcgg gtgagtcacc cacacaaagg aagagggcct 1020

tgcccctcgc cggccgctgc ttcctgtgac cccgtggtct atcggccgca tagtcacctc 1080

gggcttctct tgagcaccgc tcgtcgcggc ggggggaggg gatctaatgg cgttggagtt 1140

tgttcacatt tggtgggtgg agactagtca ggccagcctg gcgctggaag tcattcttgg 1200

aatttgcccc tttgagtttg gagcgaggct aattctcaag cctcttagcg gttcaaaggt 1260

attttctaaa cccgtttcca ggtgttgtga aagccaccgc taattcaaag caa 1313

<210> 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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<210> 34

<400> 34
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<210> 35

<400> 35
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<210> 36

<400> 36
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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
000

<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 tggtcgcccg gcctcagtga gcgagcgagc gcgcagagag 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 ccgggcgtcg ggcgaccttt 60

ggtcgcccgg cctcagtgag cgagcgagcg cgcagagagg gagtggccaa 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

<400> 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
000

<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 gagagggagt ggccaactcc atcactaggg 120

gttcct 126

<210> 64
<211> 120
<212> DNA
<213> Artificial Sequence

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

<400> 64
aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg 60

ccgcccggga aacccgggcg tgcgcctcag tgagcgagcg agcgcgcagc tgcctgcagg 120

<210> 65

<400> 65
000

<210> 66
<211> 141
<212> DNA
<213> Artificial Sequence

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

<400> 66
aataaacgat aacgccgttg gtggcgtgag gcatgtaaaa ggttacatca ttatcttgtt 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
cgcagccacc atggcggggt tttacgagat tgtgattaag gtccccagcg accttgacga 60

gcatctgccc ggcatttctg acagctttgt gaactgggtg gccgagaagg aatgggagtt 120

gccgccagat tctgacatgg atctgaatct gattgagcag gcacccctga ccgtggccga 180

gaagctgcag cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct 240

tttctttgtg caatttgaga agggagagag ctacttccac atgcacgtgc tcgtggaaac 300

caccggggtg aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat 360

tcagagaatt taccgcggga tcgagccgac tttgccaaac tggttcgcgg tcacaaagac 420

cagaaatggc gccggaggcg ggaacaaggt ggtggatgag tgctacatcc ccaattactt 480

gctccccaaa acccagcctg agctccagtg ggcgtggact aatatggaac agtatttaag 540

cgcctgtttg aatctcacgg agcgtaaacg gttggtggcg cagcatctga cgcacgtgtc 600

gcagacgcag gagcagaaca aagagaatca gaatcccaat tctgatgcgc cggtgatcag 660

atcaaaaact tcagccaggt acatggagct ggtcgggtgg ctcgtggaca aggggattac 720

ctcggagaag cagtggatcc aggaggacca ggcctcatac atctccttca atgcggcctc 780

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taaaaccgcc cccgactacc tggtgggcca gcagcccgtg gaggacattt ccagcaatcg 900

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gggatgggcc acgaaaaagt tcggcaagag gaacaccatc tggctgtttg ggcctgcaac 1020

taccgggaag accaacatcg cggaggccat agcccacact gtgcccttct acgggtgcgt 1080

aaactggacc aatgagaact ttcccttcaa cgactgtgtc gacaagatgg tgatctggtg 1140

ggaggagggg aagatgaccg ccaaggtcgt ggagtcggcc aaagccattc tcggaggaag 1200

caaggtgcgc gtggaccaga aatgcaagtc ctcggcccag atagacccga ctcccgtgat 1260

cgtcacctcc aacaccaaca tgtgcgccgt gattgacggg aactcaacga ccttcgaaca 1320

ccagcagccg ttgcaagacc ggatgttcaa atttgaactc acccgccgtc tggatcatga 1380

ctttgggaag gtcaccaagc aggaagtcaa agacttttc cggtgggcaa aggatcacgt 1440

ggttgaggtg gagcatgaat tctacgtcaa aaagggtgga gccaagaaaa gacccgcccc 1500

cagtgacgca gatataagtg agcccaaacg ggtgcgcgag tcagttgcgc agccatcgac 1560

gtcagacgcg gaagcttcga tcaactacgc agacaggtac caaaacaaat gttctcgtca 1620

cgtgggcatg aatctgatgc tgtttccctg cagacaatgc gagagaatga atcagaattc 1680

aaatatctgc ttcactcacg gacagaaaga ctgtttagag tgctttcccg tgtcagaatc 1740

tcaacccgtt tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat 1800

gggaaaggtg ccagacgctt gcactgcctg cgatctggtc aatgtggatt tggatgactg 1860

catctttgaa caataa 1876

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

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

<400> 68
atcatggaga taattaaaat gataaccatc tcgcaaataa ataagtattt 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 gatatctcca gcaacaggat ctacaagatt 240

ctggagctca acggctacga ccctcaatac gctgcctcag tgttcttggg ttgggccacc 300

aagaaattcg gcaagagaaa cactatctgg ctgttcggcc ccgctaccac tggaaagaca 360

aacatcgcag aagcgattgc tcacacggtg ccattctacg gctgcgtcaa ctggacaaac 420

gagaacttcc cgttcaacga ctgtgtcgat aagatggtta tctggtggga ggaaggaaag 480

atgacggcca aagtggtcga aagcgccaag gcaattctgg gtggctctaa agtgcgcgtc 540

gaccagaagt gcaaatcttc agctcaaatc gatcctaccc ccgttattgt gacatcaaac 600

acgaacatgt gtgccgtgat cgacggaaac agtacaacgt tcgaacacca gcaacctctc 660

caggatcgta tgttcaagtt cgagctcacc cgccgtttgg accatgattt cggcaaggtc 720

actaaacaag aggttaagga cttcttccgc tgggctaaag atcacgttgt ggaggttgaa 780

catgagttct acgtcaagaa aggaggtgct aagaaacgtc cagccccgtc ggacgcagat 840

atctccgaac ctaagagggt gagagagtcg gtcgcacagc caagcacttc tgacgcagaa 900

gcttccatta actacgcaga taggtaccaa aacaagtgca gcagacacgt gggtatgaac 960

ttgatgctgt tcccatgccg ccagtgtgag cgtatgaacc aaaactctaa catctgtttc 1020

acacatggcc agaaggactg cctcgaatgt ttccctgtgt cagagagtca gcccgtctca 1080

gtcgttaaga aagcttacca aaagttgtgc tacatccacc atattatggg taaagtccct 1140

gatgcctgta ccgcttgtga tctggtcaac gtggatttgg acgactgtat tttcgagcaa 1200

taa 1203

<210> 70

<400> 70
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<210> 71

<400> 71
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<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 ttgcccctcc cccgtgcctt ccttgaccct 60

ggaaggtgcc actcccactg tcctttccta ataaaatgag gaaattgcat cgcattgtct 120

gagtaggtgt cattctattc tgggggggtgg ggtggggcag gacagcaagg gggaggattg 180

ggaagacaat agcaggcatg ctggggatgc ggtgggctct atggc 225

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

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

<400> 74
ggctcagagg ctcagaggca cacaggagtt tctgggctca ccctgccccc ttccaacccc 60

tcagttccca tcctccagca gctgtttgtg tgctgcctct gaagtccaca ctgaacaaac 120

ttcagcctac tcatgtccct aaaatgggca aacattgcaa gcagcaaaca gcaaacacac 180

agccctccct gcctgctgac cttggagctg gggcagaggt cagagacctc tctgggccca 240

tgccacctcc aacatccact cgacccctg gaatttcggt ggagaggagc agaggttgtc 300

ctggcgtggt ttaggtagtg tgagagggtc cgggttcaaa accacttgct gggtggggag 360

tcgtcagtaa gtggctatgc cccgaccccg aagcctgttt ccccatctgt acaatggaaa 420

tgataaagac gcccatctga tagggttttt gtggcaaata aacatttggt ttttttgttt 480

tgttttgttt tgttttttga gatggaggtt tgctctgtcg cccaggctgg agtgcagtga 540

cacaatctca tctcaccaca accttcccct gcctcagcct cccaagtagc tgggattaca 600

agcatgtgcc accacacctg gctaattttc tatttttagt agagacgggt ttctccatgt 660

tggtcagcct cagcctccca agtaactggg attacaggcc tgtgccacca cacccggcta 720

atttttttcta tttttgacag ggacggggtt tcaccatgtt ggtcaggctg gtctagaggt 780

accggatctt gctaccagtg gaacagccac taaggattct gcagtgagag cagagggcca 840

gctaagtggt actctcccag agactgtctg actcacgcca ccccctccac cttggacaca 900

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tcctcagctt caggcaccac cactgacctg ggacagt 1177

<210> 75

<400> 75
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gagcgagcgc gc 72

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cagtgagcga gcgagcgcgc 80

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gagcgagcgc gc 72

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<213> Artificial Sequence

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gcctgcagg 129

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polynucleotide

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gcgcgcagct gcctgcagg 139

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gcgcagctgc ctgcagg 137

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gcagctgcct gcagg 135

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agctgcctgc agg 133

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gcgcgcagct gcctgcagg 139

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gcgcagctgc ctgcagg 137

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gcagctgcct gcagg 135

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ctgcctgcag g 131

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gcctgcagg 129

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<210> 486
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ct 122

<210> 487
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<210> 490
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tcactagggg ttcct 135

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actaggggtt cct 133

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tccatcacta ggggttcct 139

<210> 494
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catcactagg ggttcct 137

<210> 495
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<223> Description of Artificial Sequence: Synthetic
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tcactagggg ttcct 135

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<223> Description of Artificial Sequence: Synthetic
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actaggggtt cct 133

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taggggttcc t 131

<210> 498
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<223> Description of Artificial Sequence: Synthetic
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gtcgcccggc ctcagtgagc gagcgagcgc gcagagaggg agtggccaac tccatcacta 120

ggggttcct 129

<210> 499
<211> 127
<212> DNA
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<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 499

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cgcccggcct cagtgagcga gcgagcgcgc agagagggag tggccaactc catcactagg 120

ggttcct 127

<210> 500
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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

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gcccgggcac gcccgggttt cccgggcg 28

<210> 503
<211> 22
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 503
cgtgcgggcc caaagggccc gc 22

<210> 504
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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 504
cgggcgacca aaggtcgccc g 21

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oligonucleotide

<400> 505
cgcccgggct ttgcccgggc 20

<210> 506
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 506
cgggcgacca aaggtcgccc gacgcccggg ctttgcccgg gc 42

<210> 507
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<212> DNA
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oligonucleotide

<400> 507
cgggcgacca aaggtcgccc g 21

<210> 508
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<400> 508
cgcccgggct ttgcccgggc 20

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<400> 509
cgggcgacca aaggtcgccc gacgcccggg cggc 34

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<210> 511
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<400> 513
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<210> 514
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<210> 519
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<400> 519
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<210> 520
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<400> 520
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oligonucleotide

<400> 521
gcccgggcaa agcccgggcg 20

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oligonucleotide

<400> 522
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gcccgggcaa agcccgggcg 20

<210> 524
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<400> 524
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<210> 525
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<210> 527
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<400> 527
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<210> 528
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oligonucleotide

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oligonucleotide

<400> 531
gcgcgctcgc tcgctc 16

<210> 532
<211> 8
<212> DNA
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<220>
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<210> 533

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oligonucleotide

<400> 535
gcctcagt 8

<210> 536
<211> 16
<212> DNA
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oligonucleotide

<400> 536
gagcgagcga gcgcgc 16

<210> 537

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<210> 538
<211> 165
<212> DNA
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<223> Description of Artificial Sequence: Synthetic
polynucleotide

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ccgcccgggc aaagcccggg cgtcgggcga cctttggtcg cccggcctca gtgagcgagc 120

gagcgcgcag agagggagtg gccaactcca 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 ggcgaccttt ggtcgcccgg cctcagtgag 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 aggccgcccg ggcaaagccc gggcgtcggg cgacctttgg 60

tcgcccggcc tcagtgagcg 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 tcagtgagcg 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 acctttggtc gcccggcctc 60

agtgagcgag cgagcgcgc 79

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

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

<400> 546
ctgcgcgctc gctcgctcac tgaggccggg cgaccaaagg tcgcccgacg tttcggcctc 60

agtgagcgag cgagcgcgca g 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 tcactgaggc 60

cgcccgggca aagcccgggc 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
gcccgctggt 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 cgggcccaaa 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 caaagggccc gc 22

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

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

<400> 555
gcgggccgga aacgggcccg ctgcccgctg 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
gggccgcccg ggaaacccgg 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
ttgcccactc cctctctgcg cgctcgctcg ctcggtgggg cctgcggacc aaaggtccgc 60

agacggcaga ggtctcctct gccggcccca ccgagcgagc gacgcgcgca 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
ttggccactc 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 ctcactcggc cctggagacc aaaggtctcc 60

agactgccgg cctctggccg gcagggccga gtgagtgagc gagcgcgcat agagggagtg 120

gccaact 127

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

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

<400> 563
tccccctgt cgcgttcgct cgctcgctgg ctcgtttggg ggggcgacgg ccagagggcc 60

gtcgtctggc agctctttga gctgccaccc ccccaaacga gccagcgagc gagcgaacgc 120

gacaggggggg agagtgccac actctcaagc aaggggttt tgtaag 166

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

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

polynucleotide

<400> 564
ttgcccactc cctctaatgc gcgctcgctc gctcggtggg 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 cggtggggcc 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 cggtggggcc 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
agttggccac attagctatg cgcgctcgct cactcactcg gccctggaga ccaaaggtct 60

ccagactgcc ggcctctggc cggcagggcc gagtgagtga gcgagcgcgc atagagggag 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 gggggga 166

<210> 569
<211> 144
<212> DNA
<213> Artificial Sequence

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

<400> 569
ataccctag tgatggagtt gcccactccc 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
nnnnnnnnnn nnnnnnnnnn 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
nnnnnnnnnn nnngg 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
nnnnnnnnnn nnnnnnnnnn 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>
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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>
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<222> (12)..(13)
<223> a, c, t, g, unknown or other

<400> 597
nnnnnnnnnn nnnagaaw 18

<210> 598
<211> 25
<212> DNA
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<220>
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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> 598
nnnnnnnnnn 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
nnnnnnnnnn 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
nnnnnnnnnn nnnnnnnnnn 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>
<221> modified_base
<222> (15)..(15)
<223> a, c, t, g, unknown or other

<400> 601
nnnnnnnnnn 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
nnnnnnnnnn 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
nnnnnnnnnn 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 gtttttgtac tctcagaaat gcagaagcta caaagataag 60

gcttcatgcc gaaatcaaca ccctgtcatt ttatggcagg gtgtttttt 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 gttttagagc 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 gttttagagc tagaaatagc aagttaaaat aaggctagtc 60

cgttatcaac ttgaaaaagt tttttt 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
nnnnnnnnnn nnnnnnnnnn gttttagagc tagaaatagc aagttaaaat aaggctagtc 60

cgttatcatt ttttt 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

<210> 620
<211> 28
<212> DNA

<213> Homo sapiens

<400> 620
catcccaggc gtggggatta gagctcca 28

<210> 621
<211> 28
<212> DNA
<213> Homo sapiens

<400> 621
gtgcagaata tgccccgcag ggtatttg 28

<210> 622
<211> 28
<212> DNA
<213> Homo sapiens

<400> 622
gggaaggggc ccagggcggt cagtgtgc 28

<210> 623
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<400> 625
ccccagacct gcgctctggc gcccagcg 28

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<210> 628
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<400> 629
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<400> 630
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<400> 631
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<400> 632
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<400> 633
ctgtctgaaa cggtccctgg ctaaactc 28

<210> 634
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<400> 634
tatttgcatt gagatagtgt ggggaagg 28

<210> 635
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<400> 635
cttgacaagg caaac 15

<210> 636
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<400> 636
gtcaaggcaa ggctg 15

<210> 637
<211> 12
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<400> 637
gatgaggatg ac 12

<210> 638
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<400> 638
aaactgcaaa ag 12

<210> 639
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<400> 639
gacaagcagc gg 12

<210> 640
<211> 13
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<400> 640
catctgctac tcg 13

<210> 641
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<400> 641
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<400> 642
gggtagaagc ggtcacagat atatctgt 28

<210> 643
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<400> 643
agtcagaggc caaggaagct gttggctg 28

<210> 644
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<400> 644
ttggtggcgt ggacgatggc caggtagc 28

<210> 645
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<400> 645
cagttgatgc cgtggcaaac tggtactt 28

<210> 646
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<400> 646
ccagaaggga agcgtgatga caaagagg 28

<210> 647
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<220>
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PPP1R12C sequence

<400> 647

actagggaca ggattg 16

<210> 648
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<220>
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PPP1R12C sequence

<400> 648
ccccactgtg gggtgg 16

<210> 649
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<213> Unknown

<220>
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HPRT sequence

<400> 649
acccgcagtc ccagcgtcgt ggtgagcc 28

<210> 650
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<220>
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HPRT sequence

<400> 650
gcatgacggg accggtcggc tcgcggca 28

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

<400> 651
tgatgaagga gatgggaggc catcacat 28

<210> 652
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<220>
<223> Description of Unknown:
HPRT sequence

<400> 652
atctcgagca agacgttcag tcctacag 28

<210> 653
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<220>
<223> Description of Unknown:
HPRT sequence

<400> 653
aagcactgaa tagaaatagt gatagatc 28

<210> 654
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<220>
<223> Description of Unknown:
HPRT sequence

<400> 654
atgtaatcca gcaggtcagc aaagaatt 28

<210> 655
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<220>

<223> Description of Unknown:
HPRT sequence

<400> 655
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<210> 656
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<220>
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HPRT sequence

<400> 656
gctccgttat ggcgacccgc agccctgg 28

<210> 657
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<220>
<223> Description of Unknown:
HPRT sequence

<400> 657
tgcaaaaggt aggaaaagga ccaaccag 28

<210> 658
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<212> DNA
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<220>
<223> Description of Unknown:
HPRT sequence

<400> 658
acccagatac aaacaatgga tagaaaac 28

<210> 659
<211> 28
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<213> Unknown

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

<400> 659
ctgggatgaa ctctgggcag aattcaca 28

<210> 660
<211> 28
<212> DNA
<213> Unknown

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

<400> 660
atgcagtcta agaatacaga cagatcag 28

<210> 661
<211> 28
<212> DNA
<213> Unknown

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

<400> 661
tgcacagggg ctgaagttgt cccacagg 28

<210> 662
<211> 28
<212> DNA
<213> Unknown

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

<400> 662
tggccaggag gctggttgca aacatttt 28

<210> 663
<211> 28

<212> DNA
<213> Unknown

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

<400> 663
ttgaatgtga tttgaaaggt aatttagt 28

<210> 664
<211> 28
<212> DNA
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<220>
<223> Description of Unknown:
HPRT sequence

<400> 664
aagctgatga tttaagcttt ggcggttt 28

<210> 665
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<212> DNA
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<220>
<223> Description of Unknown:
HPRT sequence

<400> 665
gtggggtaat tgatccatgt atgccatt 28

<210> 666
<211> 28
<212> DNA
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<220>
<223> Description of Unknown:
HPRT sequence

<400> 666
gggtggccaa aggaactgcg cgaacctc 28

<210> 667
<211> 28
<212> DNA
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<220>
<223> Description of Unknown:
HPRT sequence

<400> 667
atcaactgga gttggactgt aataccag 28

<210> 668
<211> 28
<212> DNA
<213> Unknown

<220>
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HPRT sequence

<400> 668
ctttacagag acaagaggaa taaaggaa 28

<210> 669
<211> 28
<212> DNA
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<400> 669
cctatccatt gcactatgct ttatttaa 28

<210> 670
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<400> 670
tttgggatag ttatgaattc aatcttca 28

<210> 671
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<400> 671

cctgtgctgt tgatctcata aatagaac 28

<210> 672
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<400> 672
ttgtggtttt taaataaagc atagtgca 28

<210> 673
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<400> 673
accaagaaga cagactaaaa tgaaaata 28

<210> 674
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<400> 674
ctgttgatag acactaaaag agtattag 28

<210> 675
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<400> 675
tgacacagta cctggcacca tagttgta 28

<210> 676
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<400> 676
gtactagggg tatggggata aaccagac 28

<210> 677
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<400> 677
gcaaagattg ctgactacgg cattgctc 28

<210> 678
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<400> 678
tgatggcagc attgggatac agtgtgaa 28

<210> 679
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<400> 679
gcaaagattg ctgactacag cattgctc 28

<210> 680
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<400> 680
ggggcgatgc tggggacggg gacattag 28

<210> 681
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<400> 681
acgctgcgcc ggcggaggcg gggccgcg 28

<210> 682
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<400> 682
aaggcgccgt gggggctgcc gggacggg 28

<210> 683
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<400> 683
agtccccgga ggcctcgggc cgactcgc 28

<210> 684
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<212> DNA
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<400> 684
gcgctcagca ggtggtgacc ttgtggac 28

<210> 685
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<400> 685
atggtgggag agactgtgag gcggcagc 28

<210> 686
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<400> 686
atggcgctca gcaggtggtg accttgtg 28

<210> 687
<211> 28
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<400> 687
tgggagagac tgtgaggcgg cagctggg 28

<210> 688
<211> 28
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<213> Homo sapiens

<400> 688
gccaggtagt actgtgggta ctcgaagg 28

<210> 689
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<400> 689
gagccatggc agttctccat gctggccg 28

<210> 690
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<400> 690
cagtgggttc ttgccgcagc agatggtg 28

<210> 691
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<400> 691
gtgacgatga ggcctctgct accgtgtc 28

<210> 692
<211> 28
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<400> 692
ggggagacag ggcaaggctg gcagagag 28

<210> 693
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<400> 693
atgtccaggc tgctgcctcg gtcccatt 28

<210> 694
<211> 28
<212> DNA
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<220>
<223> Description of Unknown:
CFTR sequence

<400> 694
attagaagtg aagtctggaa ataaaacc 28

<210> 695
<211> 44
<212> DNA
<213> Unknown

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

<400> 695
agtgattatg ggagaactgg atgttcacag tcagtccaca cgtc 44

<210> 696
<211> 28
<212> DNA
<213> Unknown

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

<400> 696
catcatagga aacaccaaag atgatatt 28

<210> 697
<211> 28
<212> DNA
<213> Unknown

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

<400> 697

atatagatac agaagcgtca tcaaagca 28

<210> 698
<211> 28
<212> DNA
<213> Unknown

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

<400> 698
gctttgatga cgcttctgta tctatatt 28

<210> 699
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<212> DNA
<213> Unknown

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

<400> 699
ccaactagaa gaggtaagaa actatgtg 28

<210> 700
<211> 28
<212> DNA
<213> Unknown

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

<400> 700
cctatgatga atatagatac agaagcgt 28

<210> 701
<211> 28
<212> DNA
<213> Unknown

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

<400> 701
acaccaatga tattttcttt aatggtgc 28

<210> 702
<211> 28
<212> DNA
<213> Unknown

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

<400> 702
ctatggactt caagagcaac agtgctgt 28

<210> 703
<211> 28
<212> DNA
<213> Unknown

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

<400> 703
ctcatgtcta gcacagtttt gtctgtga 28

<210> 704
<211> 28
<212> DNA
<213> Unknown

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

<400> 704
gtgctgtggc ctggagcaac aaatctga 28

<210> 705
<211> 28
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown:
TRAC sequence

<400> 705
ttgctcttga agtccataga cctcatgt 28

<210> 706
<211> 28
<212> DNA
<213> Unknown

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

<400> 706
gctgtggcct ggagcaacaa atctgact 28

<210> 707
<211> 28
<212> DNA
<213> Unknown

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

<400> 707
ctgttgctct tgaagtccat agacctca 28

<210> 708
<211> 28
<212> DNA
<213> Unknown

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

<400> 708
ctgtggcctg gagcaacaaa tctgactt 28

<210> 709
<211> 28
<212> DNA
<213> Unknown

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

<400> 709
ctgactttgc atgtgcaaac gccttcaa 28

<210> 710
<211> 28
<212> DNA
<213> Unknown

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

<400> 710
ttgttgctcc aggccacagc actgttgc 28

<210> 711
<211> 28
<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 ggaacccaat 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
<213> Unknown

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

<400> 715
tctcggagaa tgacgagtgg acccagga 28

<210> 716
<211> 28
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<400> 716
ccagggcgcc tgtgggatct gcatgcct 28

<210> 717
<211> 28
<212> DNA
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<400> 717
cagtcgtctg ggcggtgcta caactggg 28

<210> 718
<211> 28
<212> DNA
<213> Homo sapiens

<400> 718
gaacacaggc acggctgagg ggtcctcc 28

<210> 719
<211> 28
<212> DNA
<213> Homo sapiens

<400> 719
ctgtggacta tggggagctg gatttcca 28

<210> 720
<211> 19
<212> DNA
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<400> 720
cagtcgtctg ggcggtgct 19

<210> 721
<211> 28
<212> DNA
<213> Homo sapiens

<400> 721
acagtgcttc ggcaggctga cagccagg 28

<210> 722
<211> 28
<212> DNA
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<400> 722
acccggacct cagtggcttt gcctggag 28

<210> 723
<211> 28
<212> DNA
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<400> 723
actacctggg cataggcaac ggaaccca 28

<210> 724
<211> 28
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<400> 724
tggcggtggg tacatgagct ccaccttg 28

<210> 725
<211> 28
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<400> 725
gtatggctgc gacgtggggt cggacggg 28

<210> 726
<211> 28
<212> DNA
<213> Homo sapiens

<400> 726
ttatctggat ggtgtgagaa cctggccc 28

<210> 727
<211> 28
<212> DNA
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<400> 727
tcctctggac ggtgtgagaa cctggccc 28

<210> 728
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<400> 728
atggagccgc gggcgccgtg gatagagc 28

<210> 729
<211> 28
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<400> 729
ctggctcgcg gcgtcgctgt cgaaccgc 28

<210> 730
<211> 28
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<400> 730
tccaggagct caggtcctcg ttcagggc 28

<210> 731
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<400> 731
cggcggacac cgcggctcag atcaccca 28

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

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

<210> 734

<211> 28
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<400> 734
ctggaggtgg atgcccagga cgagcttt 28

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

<210> 736
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<400> 736
cctcagtttc atggggattc aagggaac 28

<210> 737
<211> 28
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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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<212> DNA
<213> Homo sapiens

<400> 739

ccaagagggg agccgcggga gccgtggg 28

<210> 740
<211> 28
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<400> 740
gaaataaggc atactggtat tactaatg 28

<210> 741
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<212> DNA
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<400> 741
gaggagagca ggccgattac ctgaccca 28

<210> 742
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<212> DNA
<213> Unknown

<220>
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DRA sequence

<400> 742
tctcccaggg tggttcagtg gcagaatt 28

<210> 743
<211> 28
<212> DNA
<213> Unknown

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

<400> 743
gcgggggaaa gagaggagga gagaagga 28

<210> 744
<211> 28
<212> DNA

<213> Unknown

<220>
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TAP1 sequence

<400> 744
agaaggctgt gggctcctca gagaaaat 28

<210> 745
<211> 28
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown:
TAP1 sequence

<400> 745
actctggggt agatggagag cagtacct 28

<210> 746
<211> 28
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown:
TAP2 sequence

<400> 746
ttgcggatcc gggagcagct tttctcct 28

<210> 747
<211> 28
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown:
TAP2 sequence

<400> 747
ttgattcgag acatggtgta ggtgaagc 28

<210> 748

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

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

<400> 748
ccacagccag agcctcagca ggagcctg 28

<210> 749
<211> 28
<212> DNA
<213> Unknown

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

<400> 749
cgcaagaggc tggagaggct gaggactg 28

<210> 750
<211> 28
<212> DNA
<213> Unknown

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

<400> 750
ctggatgggg cttggctgat ggtcagca 28

<210> 751
<211> 28
<212> DNA
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<220>
<223> Description of Unknown:
Tapasin sequence

<400> 751
gcccgcgggc agttctgcgc gggggtca 28

<210> 752
<211> 28
<212> DNA
<213> Unknown

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

<400> 752
gctcccaggc agcgggcggg aggctgga 28

<210> 753
<211> 28
<212> DNA
<213> Unknown

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

<400> 755

gctcgaaggc ttggtggccg gggccagt 28

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

<220>
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oligonucleotide

<400> 756
gtctgccgtt actgccctgt ggg 23

<210> 757
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<212> DNA
<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
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<210> 759
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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
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<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 cggtgtaccc ggg 23

<210> 764
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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 764
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<210> 765
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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 765
gctattggtc aaggcaaggc tgg 23

<210> 766
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 766
gtgttcatct ttggttttgt ggg 23

<210> 767
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 767
ggtcctgccg ctgcttgtca tgg 23

<210> 768
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 768
gcttctaccc caatgacttg tgg 23

<210> 769
<211> 23
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 769
gcctctgact gttggtggcg tgg 23

<210> 770
<211> 23
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 770
gccgtggcaa actggtactt tgg 23

<210> 771
<211> 23

<212> DNA
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<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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<213> Artificial Sequence

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

<400> 773
gtggccccac tgtggggtgg agg 23

<210> 774
<211> 23
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 774
gtcggcatga cgggaccggt cgg 23

<210> 775
<211> 23
<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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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 776
gtgctttgat gtaatccagc agg 23

<210> 777
<211> 23
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 777
gtcgccataa cggagccggc cgg 23

<210> 778
<211> 23
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 778
gtattgcaaa aggtaggaaa agg 23

<210> 779
<211> 23
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<213> Artificial Sequence

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

<400> 779
gcatatctgg 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
gaacccactg 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 atcggtgaat agg 23

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

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

<400> 797
gacaccttct 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
gtacccaccg ccatactacc tgg 23

<210> 804
<211> 23
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 804
gctgcgacgt 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
gtaagagttt tatgtttttt catctctgct tgtatttttc tagtaatgga agcctggtat 60

tttaaaatag ttaaattttc ctttagtgct gatttctaga ttattattac tgttgttgtt 120

gttattattg tcattatttg catctgagaa cccttaggtg gttatattat tgatatattt 180

ttggtatctt tgatgacaat aatgggggat tttgaaagct tagctttaaa tttcttttaa 240

ttaaaaaaaa atgctaggca gaatgactca aattacgttg gatacagttg aatttattac 300

ggtctcatag ggcctgcctg ctcgaccatg ctatactaaa aattaaaagt gtgtgttact 360

aattttataa atggagtttc catttatatt tacctttatt tcttatttac cattgtctta 420

gtagatattt acaaacatga cagaaacact aaatcttgag tttgaatgca cagatataaa 480

cacttaacgg gttttaaaaa taataatgtt ggtgaaaaaa tataactttg agtgtagcag 540

agaggaacca ttgccacctt cagattttcc tgt 573

<210> 824
<211> 1993
<212> DNA
<213> Mus musculus

<400> 824
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cagcatatta cagttagttg tcttcatcaa tctttaaata tgttgtgtgg tttttctctc 120

cctgtttcca cagacaagag tgagatcgcc catcggtata atgatttggg agaacaacat 180

ttcaaaggcc tgtaagttat aatgctgaaa gcccacttaa tatttctggt agtattagtt 240

aaagttttaa aacacctttt tccaccttga gtgtgagaat tgtagagcag tgctgtccag 300

tagaaatgtg tgcattgaca gaaagactgt ggatctgtgc tgagcaatgt ggcagccaga 360

gatcacaagg ctatcaagca ctttgcacat ggcaagtgta actgagaagc acacattcaa 420

ataatagtta attttaattg aatgtatcta gccatgtgtg gctagtagct cctttcctgg 480

agagagaatc tggagcccac atctaacttg ttaagtctgg aatcttattt tttatttctg 540

gaaaggtcta tgaactatag ttttgggggc agctcactta ctaactttta atgcaataag 600

atctcatggt atcttgagaa cattattttg tctctttgta gtactgaaac cttatacatg 660

tgaagtaagg ggtctatact taagtcacat ctccaacctt agtaatgttt taatgtagta 720

aaaaaatgag taattaattt atttttagaa ggtcaatagt atcatgtatt ccaaataaca 780

gaggtatatg gttagaaaag aaacaattca aaggacttat ataatatcta gccttgacaa 840

tgaataaatt tagagagtag tttgcctgtt tgcctcatgt tcataaatct attgacacat 900

atgtgcatct gcacttcagc atggtagaag tccatattcc tttgcttgga aaggcaggtg 960

ttcccattac gcctcagaga atagctgacg ggaagaggct ttctagatag ttgtatgaaa 1020

gatatacaaa atctcgcagg tatacacagg catgatttgc tggttgggag agccacttgc 1080

ctcatactga ggtttttgtg tctgcttttc agagtcctga ttgccttttc ccagtatctc 1140

cagaaatgct catacgatga gcatgccaaa ttagtgcagg aagtaacaga ctttgcaaag 1200

acgtgtgttg ccgatgagtc tgccgccaac tgtgacaaat cccttgtgag taccttctga 1260

ttttgtggat ctactttcct gctttctgga actctgtttc aaagccaatc atgactccat 1320

cacttaaggc cccgggaaca ctgtggcaga gggcagcaga gagattgata aagccagggt 1380

gatgggaatt ttctgtggga ctccatttca tagtaattgc agaagctaca atacactcaa 1440

aaagtctcac cacatgactg cccaaatggg agcttgacag tgacagtgac agtagatatg 1500

ccaaagtgga tgagggaaag accacaagag ctaaaccctg taaaaagaac tgtaggcaac 1560

taaggaatgc agagagaaga agttgccttg gaagagcata ccaactgcct ctccaatacc 1620

aatggtcatc cctaaaacat acgtatgaat aacatgcaga ctaagcaggc tacatttagg 1680

aatatacatg tatttacata aatgtatatg catgtaacaa caatgaatga aaactgaggt 1740

catggatctg aaagagagca agggggctta catgagaggg tttggaggga ggggttggag 1800

ggagggaggt attattcttt agttttacag ggaacgtagt aaaaacatag gcttctccca 1860

aaggagcaga gcccatgagg agctgtgcaa ggttccccag cttgatttta cctgctcctc 1920

aaattccctt gatttgtttt tattataatg actttactcc tagcttttag tgtcagatag 1980

aaaacatgga agg 1993

<210> 825
<211> 1301
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown:
promoter-less Factor IX coding sequence

<400> 825
tgacagtgtt tttagaccat gaaaatgcca acaagattct caacagaccc aagaggtaca 60

acagtggcaa gctggaggaa tttgtgcagg gcaacctgga aagagaatgc atggaggaga 120

agtgctcatt tgaagaggcc agggaggtct 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 ctgaagggta cagactggca gaaaaccaga 420

agagttgtga gccagctgtg cccttcccct gtggcagagt ttctgtgagc cagaccagca 480

aactcaccag agctgaggct gtctttccag atgtggacta tgtgaactcc acagaagctg 540

agactatcct ggacaacatt actcagagca cccagtcctt caatgacttc acaagggtgg 600

ttggaggaga agatgccaag ccagggcagt ttccctggca ggtggtactg aatggaaaag 660

ttgatgcttt ctgtggaggg agcattgtga atgaaaaatg gattgtcact gctgcccact 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 ccactggtgg acagggccac ctgcctgagg agcacaaagt 1080

tcaccattta taacaacatg ttttgtgctg gcttccatga gggaggcagg gacagctgcc 1140

agggagattc 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 tggtgtggtg gcgcctgtag 120

tccccagcca cttggagggg tgaggtgaga ggattgcttg agcccgggat ggtccaggct 180

gcagtgagcc atgatcgtgc cactgcactc cagcctgggc gacagagtga gaccctgtct 240

cacaacaaca acaacaacaa caaaaaggct gagctgcacc atgcttgacc cagtttctta 300

aaattgttgt caaagcttca ttcactccat ggtgctatag agcacaagat tttatttggt 360

gagatggtgc tttcatgaat tcccccaaca gagccaagct ctccatctag tggacaggga 420

agctagcagc aaaccttccc ttcactacaa aacttcattg cttggccaaa aagagagtta 480

attcaatgta gacatctatg taggcaatta aaaacctatt gatgtataaa acagtttgca 540

ttcatggagg gcaactaaat acattctagg actttataaa agatcacttt ttatttatgc 600

acagggtgga acaagatgga ttatcaagtg tcaagtccaa tctatgacat caattattat 660

acatcggagc cctgccaaaa aatcaatgtg aagcaaatcg cagcccgcct cctgcctccg 720

ctctactcac tggtgttcat ctttggtttt gtgggcaaca tgctggtcat cctcatcctg 780

ataaactgca aaaggctgaa gagcatgact gacatctacc tgctcaacct ggccatctct 840

gacctgtttt tccttcttac tgtccccttc tgggctcact atgctgccgc ccagtgggac 900

tttggaaata caatgtgtca actcttgaca gggctctatt ttataggctt cttctctgga 960

atcttcttca tcatcctcct gacaatcgat aggtacctgg ctgtcgtcca tgctgtgttt 1020

gctttaaaag ccaggacggt caccttggg gtggtgacaa gtgtgatcac ttgggtggtg 1080

gctgtgtttg cgtctctccc aggaatcatc tttaccagat ctcaaaaaga aggtcttcat 1140

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ttaaagatag tcatcttggg gctggtcctg ccgctgcttg tcatggtcat 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 ctcccgagcg agcaagctca gtttacaccc 180

gatccactgg ggagcaggaa atatctgtgg gcttgtgaca cggactcaag tgggctggtg 240

acccagtcag agttgtgcac atggcttagt tttcatacac agcctgggct gggggtgggg 300

tgggagaggt ctttttaaa aggaagttac tgttatagag ggtctaagat tcatccattt 360

atttggcatc tgtttaaagt agattagatc ttttaagccc atcaattata gaaagccaaa 420

tcaaaatatg ttgatgaaaa atagcaacct ttttatctcc ccttcacatg catcaagtta 480

ttgacaaact ctcccttcac tccgaaagtt ccttatgtat atttaaaaga aagcctcaga 540

gaattgctga ttcttgagtt tagtgatctg aacagaaata ccaaaattat ttcagaaatg 600

tacaactttt tacctagtac aaggcaacat ataggttgta aatgtgttta aaacaggtct 660

ttgtcttgct atggggagaa aagacatgaa tatgattagt aaagaaatga cacttttcat 720

gtgtgatttc ccctccaagg tatggttaat aagtttcact gacttagaac caggcgagag 780

acttgtggcc tgggagagct ggggaagctt cttaaatgag aaggaatttg agttggatca 840

tctattgctg gcaaagacag aagcctcact gcaagcactg catgggcaag cttggctgta 900

gaaggagaca gagctggttg ggaagacatg gggaggaagg acaaggctag atcatgaaga 960

accttgacgg cattgctccg tctaagtcat gagctgagca gggagatcct ggttggtgtt 1020

gcagaaggtt tactctgtgg ccaaaggagg gtcaggaagg atgagcattt agggcaagga 1080

gaccaccaac agccctcagg tcagggtgag gatggcctct gctaagctca aggcgtgagg 1140

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aggatgcaga gtcagcagaa ctg 1223

<210> 828
<211> 1515
<212> DNA
<213> Artificial Sequence

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

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cggctcaggg ccaagaacag ttggaacagc agaatatggg ccaaacagga tatctgtggt 120

aagcagttcc tgccccggct cagggccaag aacagatggt ccccagatgc ggtcccgccc 180

tcagcagttt ctagagaacc atcagatgtt 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

ggagctgttc accggggtgg tgcccatcct ggtcgagctg gacggcgacg taaacggcca 480

caagttcagc gtgtccggcg agggcgaggg cgatgccacc tacggcaagc tgaccctgaa 540

gttcatctgc accaccggca agctgcccgt gccctggccc accctcgtga ccaccctgac 600

ctacggcgtg cagtgcttca gccgctaccc cgaccacatg aagcagcacg acttcttcaa 660

gtccgccatg cccgaaggct acgtccagga gcgcaccatc ttcttcaagg acgacggcaa 720

ctacaagacc cgcgccgagg tgaagttcga gggcgacacc ctggtgaacc gcatcgagct 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 gcacccagtc 1020

cgccctgagc aaagacccca acgagaagcg cgatcacatg gtcctgctgg agttcgtgac 1080

cgccgccggg atcactctcg gcatggacga gctgtacaag taaactagat aatcaacctc 1140

tggattacaa aatttgtgaa agattgactg gtattcttaa ctatgttgct ccttttacgc 1200

tatgtggata cgctgcttta atgcctttgt atcatgctat tgcttcccgt atggctttca 1260

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gccttgcccg ctgctggaca ggggctcggc tgttgggcac tgacaattcc gtgggtagcg 1380

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 agatttttc aaatgagatg gcgaaagtag atgatagttt ctttcatcga 300

cttgaagagt ctttttggt ggaagaagac aagaagcatg aacgtcatcc tatttttgga 360

aatatagtag atgaagttgc ttatcatgag aaatatccaa ctatctatca tctgcgaaaa 420

aaattggtag attctactga taaagcggat ttgcgcttaa tctatttggc cttagcgcat 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

ctcattgctt tgtcattggg tttgacccct aattttaaat caaattttga tttggcagaa 780

gatgctaaat tacagctttc aaaagatact tacgatgatg atttagataa tttattggcg 840

caaattggag atcaatatgc tgatttgttt ttggcagcta agaatttatc agatgctatt 900

ttactttcag atatcctaag agtaaatact gaaataacta aggctcccct atcagcttca 960

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caacaacttc cagaaaagta taaagaaatc ttttttgatc aatcaaaaaa cggatatgca 1080

ggttatattg atgggggagc tagccaagaa gaattttata aatttatcaa accaatttta 1140

gaaaaaatgg atggtactga ggaattattg gtgaaactaa atcgtgaaga tttgctgcgc 1200

aagcaacgga cctttgacaa cggctctatt ccccatcaaa ttcacttggg tgagctgcat 1260

gctattttga gaagacaaga agacttttat ccatttttaa aagacaatcg tgagaagatt 1320

gaaaaaatct tgacttttcg aattccttat tatgttggtc cattggcgcg tggcaatagt 1380

cgttttgcat ggatgactcg gaagtctgaa gaaacaatta ccccatggaa ttttgaagaa 1440

gttgtcgata aaggtgcttc agctcaatca tttattgaac gcatgacaaa ctttgataaa 1500

aatcttccaa atgaaaaagt actaccaaaa catagtttgc tttatgagta ttttacggtt 1560

tataacgaat tgacaaaggt caaatatgtt actgaaggaa tgcgaaaacc agcatttctt 1620

tcaggtgaac agaagaaagc cattgttgat ttactcttca aaacaaatcg aaaagtaacc 1680

gttaagcaat taaaagaaga ttatttcaaa aaaatagaat gttttgatag tgttgaaatt 1740

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ttaacattga ccttatttga agatagggag atgattgagg aaagacttaa aacatatgct 1920

cacctctttg atgataaggt gatgaaacag cttaaacgtc gccgttatac tggttgggga 1980

cgtttgtctc gaaaattgat taatggtatt agggataagc aatctggcaa aacaatatta 2040

gatttttga aatcagatgg ttttgccaat cgcaatttta tgcagctgat ccatgatgat 2100

agtttgacat ttaaagaaga cattcaaaaa gcacaagtgt ctggacaagg cgatagttta 2160

catgaacata ttgcaaattt agctggtagc cctgctatta aaaaaggtat tttacagact 2220

gtaaaagttg ttgatgaatt ggtcaaagta atggggcggc ataagccaga aaatatcgtt 2280

attgaaatgg cacgtgaaaa tcagacaact caaaagggcc agaaaaattc gcgagagcgt 2340

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gttgaaaata ctcaattgca aaatgaaaag ctctatctct attatctcca aaatggaaga 2460

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gataaaaatc gtggtaaatc ggataacgtt ccaagtgaag aagtagtcaa aaagatgaaa 2640

aactattgga gacaacttct aaacgccaag ttaatcactc aacgtaagtt tgataattta 2700

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gccacagtgc gcaaagtatt gtccatgccc caagtcaata ttgtcaagaa aacagaagta 3300

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tatagtcttt ttgagttaga aaacggtcgt aaacggatgc tggctagtgc cggagaatta 3660

caaaaaggaa atgagctggc tctgccaagc aaatatgtga atttttata tttagctagt 3720

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attttagcag atgccaattt agataaagtt cttagtgcat ataacaaaca tagagacaaa 3900

ccaatacgtg aacaagcaga aaatattatt catttattta cgttgacgaa tcttggagct 3960

cccgctgctt ttaaatattt tgatacaaca attgatcgta aacgatatac gtctacaaaa 4020

gaagttttag 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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cacccagcgc 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

<400> 831
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gcatctgccc ggcatttctg acagctttgt gaactgggtg gccgagaagg aatgggagtt 120

gccgccagat tctgacatgg atctgaatct gattgagcag gcacccctga ccgtggccga 180

gaagctgcag cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cggaggccct 240

tttctttgtg caatttgaga agggagagag ctacttccac atgcacgtgc tcgtggaaac 300

caccggggtg aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat 360

tcagagaatt taccgcggga tcgagccgac tttgccaaac tggttcgcgg tcacaaagac 420

cagaaatggc gccggaggcg ggaacaaggt ggtggatgag tgctacatcc ccaattactt 480

gctccccaaa acccagcctg agctccagtg ggcgtggact aatatggaac agtatttaag 540

cgcctgtttg aatctcacgg agcgtaaacg gttggtggcg cagcatctga cgcacgtgtc 600

gcagacgcag gagcagaaca aagagaatca gaatcccaat tctgatgcgc cggtgatcag 660

atcaaaaact tcagccaggt acatggagct ggtcgggtgg ctcgtggaca aggggattac 720

ctcggagaag cagtggatcc aggaggacca ggcctcatac atctccttca atgcggcctc 780

caactcgcgg tcccaaatca aggctgcctt ggacaatgcg ggaaagatta tgagcctgac 840

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aaactggacc aatgagaact ttcccttcaa cgactgtgtc gacaagatgg tgatctggtg 1140

ggaggagggg aagatgaccg ccaaggtcgt ggagtcggcc aaagccattc tcggaggaag 1200

caaggtgcgc gtggaccaga aatgcaagtc ctcggcccag atagacccga ctcccgtgat 1260

cgtcacctcc aacaccaaca tgtgcgccgt gattgacggg aactcaacga ccttcgaaca 1320

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gtcagacgcg gaagcttcga tcaactacgc agacaggtac caaaacaaat gttctcgtca 1620

cgtgggcatg aatctgatgc tgtttccctg cagacaatgc gagagaatga atcagaattc 1680

aaatatctgc ttcactcacg gacagaaaga ctgtttagag tgctttcccg tgtcagaatc 1740

tcaacccgtt tctgtcgtca aaaaggcgta tcagaaactg tgctacattc atcatatcat 1800

gggaaaggtg ccagacgctt gcactgcctg cgatctggtc aatgtggatt tggatgactg 1860

catctttgaa caataa 1876

<210> 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

agcgcccgct cctttcgctt tcttcccttc ctttctcgcc acgttcgccg gctttccccg 240

tcaagctcta aatcgggggc tccctttagg gttccgattt agtgctttac ggcacctcga 300

ccccaaaaaa cttgattagg gtgatggttc acgtagtggg ccatcgccct gatagacggt 360

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aacaacactc aaccctatct cggtctattc ttttgattta taagggattt tgccgatttc 480

ggcctattgg ttaaaaaatg agctgattta acaaaaattt aacgcgaatt ttaacaaaat 540

attaacgttt acaatttcag gtggcacttt tcggggaaat gtgcgcggaa cccctatttg 600

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aaatagacag atcgctgaga taggtgcctc actgattaag cattggtaac tgtcagacca 1560

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tcaagagcta ccaactcttt ttccgaaggt aactggcttc agcagagcgc agataccaaa 1860

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