SEQUENCE LISTING

<110> Tropic Biosciences UK Limited
MAORI, Eyal
GALANTY, Yaron
PIGNOCCHI, Cristina
CHAPARRO GARCIA, Angela
MEIR, Ofir

<120> MODIFYING THE SPECIFICITY OF PLANT NON-CODING RNA MOLECULES FOR SILENCING GENE EXPRESSION

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<151> 2017-09-19

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<220>
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aagctcagga gggatagcgc c 21

<210> 41
<211> 23
<212> DNA
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<220>
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<400> 41
cttgcagaga gaaatcacag tgg 23

<210> 42
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gcttacacag agaatcacag agg 23

<210> 43
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aagaatctgt aaagctcagg agg 23

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ccacataagc aggacgagtt aa 22

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tatccacaca aactacctgc a 21

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gcagtagtta gtgtggataa a 21

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tgacaatcca gccaatccag c 21

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<400> 53
taaagatcgg caacacatga t 21

<210> 54
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<220>
<223> Single strand oligonucleotide

<400> 54
tcagtgttgg cgatcttta 19

<210> 55
<211> 21
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<220>
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<400> 55
tgacctttct tgggtttagc c 21

<210> 56
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<400> 56
gctaacccat gaaaggtca 19

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<220>
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<400> 57
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gtctctttcc tctgtgattc tctgtgtaag cgaaagagct tg 102

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gtctctttcc tctccacata agcaggacga gttaagagct tg 102

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gtctctttcc tctggcaaag ctgcagtaca actaagagct tg 102

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gtctctttcc tcttgcagta gttagtgtgg ataaagagct tg 102

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gtctctttcc tctgctgatt ggcaggattg tcaaagagct tg 102

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<211> 107
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<400> 64
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<400> 65
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atttttcca catgaagaag cacgacttga ttggctcttc ttactac 107

<210> 66
<211> 107
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<400> 66
gtagagaaga atctgtaagt tgtactccag cttgtgccat gatgatcaca ttcgttatct 60

atttttggc acaagcttga gtacaactga ttggctcttc ttactac 107

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<211> 107
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<400> 67
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<211> 107
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<400> 68
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atttttgct ggattggatg gattgtcaga ttggctcttc ttactac 107

<210> 69
<211> 107
<212> DNA
<213> Artificial sequence

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<400> 69
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atttttatc atgtgttacc gatctttaca ttggctcttc ttactac 107

<210> 70
<211> 107
<212> DNA
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<223> Single strand oligonucleotide

<400> 70
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atttttggc taaaccccag aaaggtcaca ttggctcttc ttactac 107

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<211> 4100
<212> DNA
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<223> Single strand oligonucleotide

<400> 71
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acagtattat atatacacgt cgttagttaa tcaataaatt atgagcaggt gtagtagcta 180

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agcaaaatgg cgttcttgga aagggcatgg cggcccgtgg ccgccaggga tatgtgtgca 300

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acagtattat atatacacgt cgttagttaa tcaataaatt atgagcaggt gtagtagcta 180

tgaacatggt tttaccaaat tggtaaattc atgtcattgt tgtagcactt tagcgaggcc 240

agcaaaatgg cgttcttgga aagggcatgg cggcccgtgg ccgccaggga tatgtgtgca 300

gctagaagga ttagaaggag taacttcacc tttttgtaga aactgtaaat tgccaagacg 360

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aaagtataat aagactatta atgcaagaga ttttttcata ttccttttct aagagtagaa 480

tggaatgaat aaatgaatga atgaaatagg gtttttcttg tttagatcct gtcgcacccg 540

agaataatag aagctgaatt aattggtgaa gagttttatg gtggcgatgt tgtatttata 600

gagggaaatg atttcaagtt tacaatggga tttttaattt gttttgttga ctattatctt 660

gcggagagat cttgactgtt gacatgtatg tagtgtttgt tattaaaata aatgcatttt 720

tgtagacccg attcttaaat atgttaggca tggtcaaatt gttagactgt aaaagcttga 780

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gatctgtttc ttatctcaag ctaaacatgt ttagaaaaga tgtgttaaaa acatgtgaca 1080

aaaaaagagt caaatgtttg gcaaacaagg tacttagatt tttggcatct attcaaatat 1140

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aaagattcta caaaagatca aacgtattgc cgtagattta tcataatttt aattctttca 1260

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ccagtcaaga tttcatggat ctgtt 25

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aaaacaaaca cuaacaaagg gacugaagag ccuaccacca cccaaugcgu cgauuacuga 180

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aaaacaaaca cgaacaaugu uagucaauuc uggcguccaa cauaacgcau gcaacacgua 180

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gagagugcgu ugaggaggag gaugaugagu aaugacg 277

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caaacaaaca cuaacaaagg aagucaagug uuaucaaccu caucuagcuu cuagaacaga 180

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ugcaucccuu gcuuguugaa guauuuaucu uugaggcucc ggcaccgauu 110

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<210> 113
<211> 208

<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 113
ucggucgggu aguuacgcug gcaucgauug auggauagua auaauaaagu cagucuugcg 60

agcacagaug gauguaucau cacaccaccu guggaugacu acaaaaagaa aaccaaggca 120

aaagagcgag agagagagcc cgcagggcaa cgguuucguu guuacuauac cguugcagcc 180

accguaaaac cucccucugc cgaaccga 208

<210> 114
<211> 277
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 114
gagucgguua uggcccugug aauucagguc augcgucccu cugccuagug aagccacccc 60

ucgcugggga ugucguccac agagaacaga acggucugca gacgcacuac gaaaaccauu 120

gaaacuagcc caaacaaagu gggucaccag auugccagcu cgcggugcuc acagaacgug 180

agcaggaaag gguugaggcc auggucucgu ccgaggggua agccacagug gaaaagaggg 240

aacauaaugg gauucguggg guucacuaau ccuugca 277

<210> 115
<211> 341
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 115
aacgagaugc caacuucuca agauugcaaa agcaaccagc uaguacguug guacacacca 60

augggauaac cggucagcaa uuagauccug uuaccaucaa caggauccga gggcucaucc 120

ccgaugagga aucggaucgg ccaucagauc ucgagcaaga accaagaggu cugccgguau 180

aucuccuuag aauccaaaca cgaccagggu uggacccguu ccuuccucgc ccccaaaaag 240

uaagggcgga ggaaugaguu ccugguuguu ucagggagag aaucagcauc aucggcguug 300

auugguaccg gcuuugcagc uggagggguu ggcaacucgc c 341

<210> 116
<211> 103
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 116
agagagagcu acaggccggc gcuggagagc auacgcaggu aauuuuauua gaaaauaacu 60

uugcaggugc gugcucucua agcgucggcc ugcgccaucu ugg 103

<210> 117
<211> 341
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 117
ugggggaggg uccaggcauc agggaugaaa agcaagcagc uacccuguug agacaguucg 60

acaauacuac ccuaaagcag ugugauugaa uuacugagaa uuugauccuu ggacucguug 120

caagcgagca aaaguugggg auguaacuuc gcgaggaagc aggaagcgga gucauggguu 180

aucgccagau aaaccaagca cuucgucagc cccaggguga ccuauguggc ccccgaaaau 240

uaagggccua ggucacguug ugacggaguu uacugguggg uuugaugagc ucaguauguc 300

aagggaccca ugguucguga uagugucugg accuaccccg u 341

<210> 118
<211> 341
<212> DNA
<213> Artificial sequence

<220>

<223> Single strand oligonucleotide

<400> 118
agagugauuu auucgugggg uucacuaauc cguaagcaac gcugaugcca ucauaggaug 60

guaaugaagc cggauagaua caaguugcua uuuccaauaa uagcaaccau ggaggcugcg 120

cagcagcuca aaugguucgg ggucagauca ucgggcaaug acgaagauga ucauaggggu 180

agcgcgugag aagccaacca cgcucugcga ucgagccuua acucgagcgc ccacaaaaag 240

gaagggugga guuaagccuu guagagcguu uccgcgcgug guaguacagc cgcgcaguau 300

uacgacuccu gugguuagua aguccgcgag uaagacacug g 341

<210> 119
<211> 239
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 119
gcggagguca aguucuccuc auuauaaaca ugaagguguc ucucguccua acacacagcg 60

aucaacaaaa aguaacuaac ccacacauau gguagaaacc aaaaccauaa cguggauacc 120

cuuauucugc guauaaguuu gacaaaauuc gggggaagga accauguuug uauugggcgg 180

agcaagcgcg uggcuccuag agcacgucgg ccacaaagca cguuggggac caagaacgg 239

<210> 120
<211> 94
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 120
gggaagucuu ggauugugga gaauuuaaaa agaaauaacu uucgucacga acgaaagcaa 60

uuauuuuuua acaccaccac agccuaagau uuuc 94

<210> 121
<211> 225

<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 121
caacagaaga gacacccccg aggagagaac cugcucaucu uuaauguuuu uuuugaaaac 60

cugaccagcg ccgcuccugc cugcaacaac cauccaucag aacaaaaagu ucguauggcg 120

aaaggccauu gaugguggggc aggucucccc uuggggaagu cuagcgucaa cgagcugggg 180

ucugaugguu ucacaauugc uaaaacuugu gcuucaggug acaaa 225

<210> 122
<211> 239
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 122
ggggagagca uggauucgug guuccugugg auagccccgc acauaaucgc acuucguccc 60

auaaacaaaa acaaaagaaa ccacacaacc uguagaaacc aaaacaggug gcaccgauca 120

cgacccggug ccgccgcuca gacaugaguu auguguacac agauucgugg gguucacuaa 180

uccuaaccac ccagcucgua gcgggucggg cguaucacuu gggaucggcu caagaucgg 239

<210> 123
<211> 341
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 123
accgugagau uuuugaggug agcgagggua gucaaacaga cgauggucag uaauauuauu 60

ggcgcuacgc ccuuuaugua ccauggugcg ggccgggauu cguaucaccu ggaaucauuu 120

cgaaugauga aaggggaggg auuagaacgu acgaccaacu agcaagugug uugagggauc 180

aucuccuuua gcuccaauca cuagcacagg auguccuugc ucuauucugc ccccaaaaau 240

aaagggcaua ggguaaagac uguguuagug cuagggagac auucuuaagc gcugcauagg 300

aaucgguccu ucuacccucu ugaucucaaa gaucacacgu a 341

<210> 124
<211> 96
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 124
gacaacuggu uauuggugcg gggcguuaag aaaacggugc ucaauacuuu uugagcuccg 60

cuuucugaac guucuguauu gauaacgagu gccacg 96

<210> 125
<211> 341
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 125
cgugggagau aaaauuauuu uugauacacu agagagcauc uacaguuaaa auaaagauuu 60

ugaguagcac cccacagguu ucaguacuuu uggcuaaaua aaaguaccag guuuucuuuc 120

cuaaagaaua auuggugggg gacuaagauc ucgcgcaauu augaagaggu cugugggauc 180

agcucccucg aagccaauca cgcuuaaggg cccaacuaga ucgucucggc ccccuaaaac 240

gaaggguuac gguuuacuug cuugagcguu ucagggggug augcguuacc aacggagacg 300

uauggguccc gcaguguggg augguggguu uauuacccaa g 341

<210> 126
<211> 341
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 126
gcugggaggg guuaguggag uuacacggau gggaaccacc cuaccuugau auaaacauau 60

uaaccauaga cagagaggga gaaggucucu ggucaugcuc agagacccaa ggggucuauu 120

cuauagacga auugcuuugu agguguuggc ucgcgaaacu aaaaagaguu gagucgggaa 180

aucgccagau ugaccaaucu cacacauugg gguaacggga ccauccucgc ccacaaaaag 240

gaagggcggu gguccuauua ggugugguggc gacuggcgag gguucgcagc uacgcagugg 300

aucguucccg acauucgugg gguucacuaa uccuacccac a 341

<210> 127
<211> 193
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 127
ggguucuucc agaagggcgg acaaccaacg gcgaccgccc ccuagggacc ccaggcggac 60

guuaaguuag gauuucccau uuacauucgg augggaugug ggcgagccgc cgucacgaaa 120

acggcggcag cgccaagagc gcuggacguu cgcagaagac agaaccuggu ugcucgcucu 180

ucuggaagaa ccu 193

<210> 128
<211> 193
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 128
ggguuuuuuc agaagggugg acauccaucg cccaucuccg cuugugcccc ccaggagaag 60

gguacgccag gauuucggau agagugaccu auucgaggag uuuccgccgc ugccucgaaa 120

gcagcggcug cuccaacuga gcagaagaag cucuuaaaac agaaccugga ugcucgcucu 180

ucuggaagaa ccu 193

<210> 129
<211> 193
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 129
ggguucuuuc aggaggguga acaucccacg ccgaccucuc auuauugccc ccaggaggau 60

gguacaacug gucgucuauu ugaagugcua aguggaggug ccccggcugc ugacccgaaa 120

ucagcagcag cuccaaaaga gcuggggggg cgcugaaucc agaaccggga ugcucgcucu 180

ucuggaagaa ccu 193

<210> 130
<211> 193
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 130
gcggugguau ugcuuuuuca ucagccugcg cccaucacac cagggggcag acaugugaag 60

ggcaauacag gacuacuagc uuaaagacgg gcugguuggg uagcagcugc aggcgcgaaa 120

ucugcagccg ccccaaaagg gcgggggcug cccacaaggc agaacaaggc uguuggaggg 180

guaaugccau ugc 193

<210> 131
<211> 216
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 131
gggaaucaga cauggcgaga uuucaucggg aucuggggcg agggcgaggg cgugacagug 60

gggagcgcag ucgauacaug caccaggcac acccaguauc gccuuggaaa gcaaggcgca 120

cuggguccgc cggaugcaug ugacgagugc aacgcgcccg cugcaagcau cgcgacucgu 180

uccagauucc gaugauucuc cgucgcacug augccc 216

<210> 132
<211> 89
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 132
caugcuaucg gugcuucgua cgguauuugc agagagcaca ucgaacaccg auggccuccg 60

uggaugucgu auguggugcc guuaguaug 89

<210> 133
<211> 142
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 133
gcggccugaa acaccguuug auuggugugc uggggucaac guguccaaug ccagaagacg 60

ucagcaaggg aagaacaggu guuccugggc gaugaacgcg uuggugcuuc uacaucaacc 120

gaagguaaac uuucacgcaa cg 142

<210> 134
<211> 186
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 134
guggcgugac cugagcaagu auucgugggg uucacuaauc cugaccgacc cuugcgcagg 60

ccaggcgucc augauuggua agucacccca caaagugcaa gaccagaaug gacagccagg 120

uugccuuaac cagcagaggg ucggcgagcg uuggugagga ccgccgaugc augaccacca 180

cgccac 186

<210> 135
<211> 216
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 135
uggauacacg cgugggaaga ucuggucuuc uugaccgguc uugguuaggu caugacgggg 60

guccgcgcag uccacucagg cgcucggcac ccccgcuacc uucacggaaa gugugaagcg 120

gcggggcagc cagucgccug agaggagugc aacgcagccc ccgcaagaau aacagaggac 180

uggucaagaa gacuauucug uuucggagug uagcca 216

<210> 136
<211> 83
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 136
uacguauauu guguaguuaa uuuacucagg ugugugguggg guuacggugc accuccaaua 60

gugaagacua ucagcaucac gua 83

<210> 137
<211> 140
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 137
cccggaguuu gugggcaagu ccgcucguac gacuucaagg aacagccucc gaaaacagga 60

guacauguga gauagaauaa uuccugggcc ggcucccugu ugucuuguug ugcgaacaag 120

acaugccggg agcucccggg 140

<210> 138
<211> 186
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 138
aaggugggag uggagagaga auucgugggg uucacuaauc cucacuagcu cuggcccuag 60

aggugacacc cggauaugga aagcuccaca cggugagaca gccguaacgg gugcucaacu 120

ugggcagagc cagccgggag cuagccagag uugguggaag ccgccaguuc acuagcugcc 180

caccuu 186

<210> 139
<211> 375
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 139
uuugcgaggc uagcaacugg auucuacuau auaaaaacac agacuuggaa ucaugucacc 60

caccaggacu cuccgagaau ccccguccga aagacaugaa cggguggaaa aagacucuca 120

aucaucgacg acaagcuaac acaagguauc caguaaggua cucuaaagga gguugaugug 180

auggagcacu guagaacacg ugcuaaacuc acaucgacua aagaugagug uucaaggucg 240

ucaaguaucc gagccaggau acaaacgacu cacacauauu gguccuauac ccuaaaggau 300

acccuccgaa agggcaauuc ggacagcaaa agcuguguuu uccuauaugg uagauguggu 360

uguuagccac gcaaa 375

<210> 140
<211> 99
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 140
ucagcguaug uaguaggcuc ugcuucauca aguggucuug uguucaaauu cagcuccaag 60

cacaugguca acuggauucu acuauauaug ugaauauaa 99

<210> 141
<211> 375
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 141
cuugcgaggu cagcgugucc auccaacuua uguaaugcuc ccaugcaaug uuuguccacc 60

ccagaggccu uauuuuaaag cugaugcuac cagggcaaaa aauggugaaa aacccaucua 120

gacaauuccg auauccaacu ucaaggcuuc cagguaguau cacgaaacgu gaaacacgug 180

aaggaucuuu gcagagcaug ggauaaaauc acguguuuug gucuggaguu uccaaugaca 240

ucaagucgca gagccaugcg acaaauguua cagauaaauu gcagugaaua cgacaaggaa 300

gcccuccuga cgguuaauca gggcggcccg uaggggguau uccauucggg cucuuaugcg 360

cguugaccac gcaau 375

<210> 142
<211> 375
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 142
aaagagaggg auucgugggg uucacuaauc cguuagccuc acaccccuua uucccucacc 60

ucucaugccu uagaaugaag caccagucac uagagggaaa aaaggcgaaa aacccuucca 120

aacaauagug agcaccaaac ccaagguaag cagcugguag cuugaagcaa guuauacggg 180

gcggaaaaca gaagaucucg uuuuaaaccc ccguauaaga accaagagcg cucacuggcc 240

ccaaguuucu gagccaagaa acaaggguca cagcuguguu guugcuacua caagaaguuu 300

acccaccaga aggccaaucu gguuagcacg gggugggggcu accacggguu aguaagucug 360

cggaucccac ucuuc 375

<210> 143
<211> 375
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 143
auugugaggc caaacagaag auuaaggggu ugucuaccgc ucaccuauua cugucacacc 60

uagcaugccc agaaccugug cacccuccac aagugauagc aauggcgaaa aaaccaucca 120

accaacagug cuccagaaaa ccaaggcuuc caggacggau cucuaaggga gacaauaggg 180

ugggauauau gaagaucauu guauaaaggu ccuguugugc caguagguuc cacacccucu 240

ccaauaggcu gagccaagcu uaaagagagg ccgacggaac guauacaauu cauuaaggaa 300

gcccacuagu agcgcaagcu agucaccaga gggagcggua gccacaauuc cuuauguuuu 360

guuuggucac acaaa 375

<210> 144
<211> 125
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 144
cacugugcgg ucucuaauac gacuguucag agugaugaac cgguuuccgc gcggaacgga 60

ggagcgggcg ccggcgccga auuggaucgu uccucugagc agcuguaucg gaggccgcgg 120

ugaac 125

<210> 145
<211> 375
<212> DNA
<213> Artificial sequence

<220>

<223> Single strand oligonucleotide

<400> 145
uuugagaggc caggaaggau auuacgauga ugaaucccac auacuugauu guuacucacc 60

uugcaagccc accgugugag cucccaccau uagaguaacu guaggggaaa aaaccuagac 120

uucaacugac cuucacaaac acaagguuuc cagucgguau cacuaacggu gauaaaaguu 180

ucgguaccuu cuagaagaug gguaaaaaaa acuuuuauug auuuagagca aacacuuuau 240

gcaaugguca gagccaugac caaauaugga cagacuuguu guaacaaaua cggaaaggaa 300

acccaccaca agggcaaugu gguaagcaaa agaugуggga uccucauugu cguggcuccu 360

ucuuggucac ucaac 375

<210> 146
<211> 375
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 146
gaugagaggu uuggaggggu aaugccauug cguugcacac auacuuccac uuugcccacc 60

ccucauggcg ccgacggcac caccagcaaa uagggcaaac agagaccaaa aauucuuaua 120

cacaaacacu cgcggcaaau acaagguaac cagugagggc gaccaaaggu uugucuagcg 180

aggguacucg gcagagcuag gguaaaaguu gcuggacacg uaacugacau cgaaagaucu 240

gcaagugucu gagccaagac auaauagauc cggaggaugu ggguccagcu cccaaagguu 300

acccaccagg aggacaacuu ggucaucaua agaugugugc gccauguggu ggcuucucuu 360

uccaaaccac ucaua 375

<210> 147
<211> 375
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 147
aacgagaggu augauaaaac augcuuauga augaaaucac ucacugcgcc cauucccaac 60

ccggaugccu uaugaugaag cacgcgauuc gagggaauga auuagggaua aagcuaacua 120

cgcaaacuaa uaccacaaag ucaagguugc cagaggggaa cacgaaccgu gauaagagag 180

gaggcucgcc guagaacgcg ugggaaaacu ucucuuauga gacuugugag aacaauuacc 240

acaagauccc gagccaggga ucaaugguga ccgagucuua ggagcaauuc cacuaaggua 300

acccacccga agggcaauug gguaaucaac aggagugguu ugccauuugu aagaucuuuu 360

gucguaucac ucguc 375

<210> 148
<211> 111
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 148
cauguuugga uacuaguuaa uauuaauguu uaaagcuacu cuacaaaaaa uauaugauau 60

auuuccggua gaguagcuuu aaauauugau auuggcuagu auccaaacag a 111

<210> 149
<211> 375
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 149
uuugggaggu cuaguuaaua uuaauguuua auuuaaucuc agacuauuau uugucacacc 60

acuaaugccu gaggcucaag caccagaaau aagugacaac auugguguaa aauccagccu 120

cccaagucaa aucgaacaau ucaaggcugc cagauagucu cacuaagggu gguuaaagcg 180

aggguggcgu guagaacacc gucaaaaauc gcuuuagcgc gucgagauuu cgcaauaucu 240

ucaagucucu gagccaagag auaaaagaua cccaagaaau gucguuaaga ccauaaggca 300

gcccaccuga agggcaauca gguuaucauu agcugggguu gccaguugug cuccacguug 360

aguggaucac ccaac 375

<210> 150
<211> 375
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 150
gacgugaggu uuggaggggu aaugccauug cguaaacccc cgacucagaa uucucccacc 60

gcacagcgca agcuccuuac guccugacaa gagggagaac auuggggaaa aagccagcca 120

cacaaguaac uaaagcaaaa ugaagguguc cagaaacuuc ccccaagggg guaaaacgug 180

ugggguugcc gaagaucgug cgacaaagac acguuuuagg guuucgagcg cgcaauuacu 240

ccaagugacu gagccaaguu auaagaguga ccgaagcguu ggaaugagga gcuuaggggc 300

acccgccugg agggcaaccg ggcaagcagg agcggggguu uccacgcggu ggcuucuccc 360

ucugaaucac acgug 375

<210> 151
<211> 375
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 151
guagcgaggu cgaaucuugu uuauaacuua aguuugucgc uaaccuggcg cagucucacc 60

ucaccagcca uagacuauag cuccugucau aagagauuga aaugguuaaa aacccauaca 120

uacaaaucug auacccaaac ucaaggauuc caggaaguau ggccaauggu caauucaguc 180

augggucaca gcagagcucg uggcaaacug acuggauuac acuuagguuu cccagucacg 240

ucaacugucc gagccaggac agaaacguga ggcacgaagc guaacggaua caucaaggaa 300

ucccuccuga aggacaauua gggcaacaaa gguagcggca gccacuuggg uugaaccgag 360

guucgaucac gcuag 375

<210> 152
<211> 102
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 152
gugaagccac uggauggauc gguucaaucc ucucuuccgg aaucguuguu gaacauaaga 60

accuagaauc gaggauuaaa cuuauuuauu uagcgcucac uc 102

<210> 153
<211> 375
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 153
guugugaggg cgaaucuugu uuauaacuua acuaaaucac ccacucaagu cugcgucacc 60

acucauauuu uaggcuaagg uaccaggcca uagacguagu aauggagaaa aaaccaucga 120

aucaaaacua cccuacaaaa ccaagguuuc cgaugaguau cacuacgagu gaaaauagcu 180

ggggaguuua gaagaucugg ggcuaaaacg gcuguuuugc ccuuugagua uacauugucu 240

gcaagagucu gagccaagac ucaacagaua ccgagauacu ggaaugaaua cccaaaggaa 300

acccucccua agggcaauag gggcaccacg agggggugguu uccaguuggg uugggugaag 360

auucgcucac gcaaa 375

<210> 154
<211> 375
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 154
gaugugagua auucgugggg uucacuaauc cgguuaccac agacagccua augacacacc 60

acacaugcca agccgcuuag caccugccac aaguguuaua aacgccgaaa aaugcgucaa 120

cacaaccauu ugaaccaaag acaagguacc cagcaaguau cuccaaagga ggaauaagug 180

aggguguccg agagacucgg ggcaaaaauu acuuguucag cguugguguu cgcauucuca 240

ccaagcuccu gagccaagga gcaagugaga cucaggaaca guaaaaaaua ccugaagggu 300

acccuccacg aggacaacgu gggcaugacc ugcuguggua gcuccggguu gguaagucug 360

cggauuacac gcaua 375

<210> 155
<211> 367
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 155
aguaccgagg gaaacgagau gcugcucaua uaauggcgga uagccccaac uucacaacua 60

ucgggccuuc cggugcacga gcggagguuc uuagagcuag caagucccuc gguaagauuc 120

cacagccugu gggacagcua cucacagggc ccuaccggac agcuggaagu agacuuggua 180

ugccugacgu aacagaccag uuacucagac agccaaaucc auaucguaca aaugauagga 240

aagagggauc uuaccgaggg aaccaauuaa cucuaagaac ccucacuaag ugaccgggag 300

agcugguagu uauggauuga gggcuaaaag cuauuguaug gguagcauuc uguuucccuc 360

gauacug 367

<210> 156
<211> 87
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 156
cacgucagca cgacaggaug ccaaugcaaa aaaacguguc cuugagggcg cguuuuuuug 60

cauuggcauc cugucacgcu gacgugg 87

<210> 157
<211> 168
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 157
ggaggacaac augccaaugc aaaaaaaguu uugguagaag gagacgguac gcagagcaga 60

agaggaacgg uggacuuaac ugagaccauc uucuccuaga uaagaucuca caaaccccuc 120

uccaugcaga ucuacuaagg aucugcugcg uugguguguu guccuccc 168

<210> 158
<211> 372
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 158
guggacgguc auucgugggg uucacuaauc caaaagaaga ccgcagaucc aaaggacaag 60

uuaagggcca uguugccccu agacacagag gauggcccgg cggugucacu ggguuagggg 120

aggaccucug ggcgaaggaa aucagagcac acggccuggc ucuaucuuga acccgugcau 180

aguaaacggc agauguggggu aagaacacca cauuaugcac ggguuggaga cggacccagg 240

ccaaaauucg gaacauggcu ccccuaaccu ggugacaccg ccaggccaua ggggcaaaac 300

augacccuua auucaucuau uggguccgcg agcuccuuac ggauuaguga acuuugcggu 360

ugaccgugca cc 372

<210> 159
<211> 367
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 159
cguaccacgg uggcagggag aagagaacga uaauugcaaa uugccccugc gucucgcauu 60

acgggcuaaa cuguuccggc uaguagggac aaugagcuag caagucuauc ugugguuaga 120

aacacccugu acuacaggca aguacgggac cagacauggc agcgugacuc agacggggca 180

cgccaguagu uucagcccag agacacugac ggccccaacg acauaaaaca auuuaugcgu 240

aauauucuaa cuacagauag aaccaacuaa cucauuguuc ccacgagaac ggauaguuug 300

agccguggug caagaccaga gggcaaaagg caauugucgu ucucuuuuug uugccgccgu 360

gauacga 367

<210> 160
<211> 101
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 160
guugcaaaca gaagauuaag ggguuagaug auggcgugca aucaggaguc uugaagcaau 60

gcaucccacu ccuuuggucu cuugaugcuu cuguuuucac c 101

<210> 161
<211> 214
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 161
ggcugucggc cucgcuaggu auguuuaaca auguuaugcc aagcgguggg ccaaaaacuc 60

gaaaaacaac cccuuugagg aguaggcgcu gcagucaaac ccuguacucc ccgacgggau 120

cuccgaugag aucggagaca aaacacgggu cuaaaaccga gcauagacac cagggcacaa 180

uauuguuaag uguccuuggu ggcaccagcc gccc 214

<210> 162
<211> 367

<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 162
ugggccaagg uauucguggg guucacuaau ccucggcaca acgccccuuc uccgcugaaa 60

accggcguaa cauuaccugu acgcaugccc auagagcgag ccagccgcac ugucucuacg 120

aacagccagu uuuacagcua aaaacugggc cccauccggc agcggaagga auaccaggca 180

ugccgcuagg aacagucuag uuccagcgac agccugaaca cguucauaca agugaauugu 240

aauaucguag agacagugcg gaccaacucc cucuaugggc gcgccuaaaa ggaguguuac 300

agcgguuuuc gauggaaaga gggcguaaag cugaggguug gugaguccuu uggauaccuu 360

gacucau 367

<210> 163
<211> 367
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 163
gguaccaugg ugcacagcag uauuugugua uaugugccga acgcccccuc aucucguggc 60

aggggcaaau cauucagagg ucguaugguc ucugugccag ccagccuuuc agccguccua 120

aauaaccagg uugacaguca caaucugggc accacucguc agcgagagga acacggggua 180

ugccaauguu gacaggaaag ucagauugcc ggcccuaaca acuucuuaca aaagaagugu 240

aagauuagga cggcugaaag gaccaauuga cgcggggacc acacaauaau cuaaugauuu 300

agcccugcca caagguagga gggcguaaug cacauguaca cgaauacugg ugugcaccau 360

gauacca 367

<210> 164
<211> 101
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 164
gcuguuugggu ggaguuccag aguaaagaug agggagugca auuaggaguc uugaagcaau 60

gcaucccgu ccuuuuugcu cuggaaucuu cauucaucac c   101

<210> 165
<211> 148
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 165
agaggagccc cuggucgauc augguacgca augaacgucg ucauguaucg accuaaggac 60

aaucggcagu gauuaacuuu cuuaaacaga cccgagcaug acacauggcg acccucauag 120

ugugcuuggg uccguuacgg acuccgac   148

<210> 166
<211> 372
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 166
ggggucggcc auucgugggg uucacuaauc caacguguga ccggcggggc ggagcucaca 60

uauagugccu gguagccuca agagucggag guuugcccua cugucgguca guguuugggg 120

gggaccuccu uacgaaggaa aaaggagcaa gcggccaggc uguauaaaga acccuuggga 180

uuaacauggc acuagcgggu aagaacaccg cuaauuucaa ggguuguuua cauaccuugg 240

ccaaaagacc aaacacaucc ccccaaacgu ugacuggcgg ugaggcaguu gaggcuaaac 300

cagacgcuau augcaagcac uguccccucg agcagacgac ggguuggugg guccugugau 360

uggccgagcc cc   372

<210> 167
<211> 206
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 167
gggugccgaa gcaauccgag gcuuuuuacu ugggugcuug gucggcaggg aaucaaacuc 60

ucgcgugaau uaugccguug ucgucgcccu aucucguucc ggggagcccu aaaaccugac 120

uaaauaauua uagccuucaa ugugaugagu ugugaugaua gccgaaccaa gggccugauc 180

aagaaguucc ggacauuucg gcaccc 206

<210> 168
<211> 104
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 168
ggcgcgagcu accacaagau guacggcaaa cggccgggcg ugacggcacc ggcggucgug 60

ccgucgcggc cgcuugcugu augaucuuug ugguagccgg ugcc 104

<210> 169
<211> 139
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 169
aagguccgga accgaacggc aagagagcuc ggcaagggcc ugaucaagaa cucuuggauc 60

ucaagccaag gagugggugg cugaugggggg uucuugguuc uguccuuauc gagcgggcca 120

aguucacgcu aucagccuu 139

<210> 170
<211> 206

<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 170
gggggcccau ccaaucugag gauucguggg guucacuaau ccccccuaaa agugacucac 60

acguccgggc gagccuuuuc gcgaugaccg aucucgagcc gguguucacg caaaaacauc 120

ccacgaaagc uugaauccag gguguaguga gcucacgucu ggggaggguu gaugagccau 180

gcgggucccc agacagaugg gccccc 206

<210> 171
<211> 206
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 171
gggagccccg ccaagaugag gauccgaauu uauguaccuu aucgucaccc gauuacgcuc 60

acgggagucg ccagcuugac uauuucacca agccagaucg agugaucgcg aaaaucgaaa 120

cgaagucacu ggccagacau uccguagagc gcugaugccg gaugaauagg gagcaugauc 180

ucggaucccc auccagcggg gcuccc 206

<210> 172
<211> 99
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 172
ggaauggggc uggcugucac gucgacacuc aucuagagca acaaacuucu gcgagagguu 60

gccuaugaug gauguugaug uuacagccaa cuuuauucc 99

<210> 173
<211> 165

<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 173
uggggggcggg gcggguacgg gaacacguaa gcugugaucg uugauguuac agccaacuuu 60

aagggugcgg cgggcaguac ucagcggggg uucuuccucc acccccgggg auggucggau 120

cgagggaaca ucgcacgucg cccccgcccg caacccccgc cccua 165

<210> 174
<211> 206
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 174
gggagccagu gcaaucugag gauucguggg guucacuaau ccccucgacg aaaugcucac 60

accuacuuac gcuucggcgc uagaucgccc auccaggucc ccugaccacg caaaaggauc 120

agaagcgcaa gugaaugacg uggguggguga gacguugacg gaggaggguu gaugagucaa 180

acgagucccc agacacacug gcuccc 206

<210> 175
<211> 206
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 175
gggagccuau ccaaaaggau ugggauuaug cuggggguuug gccuacuucg aguuaggcac 60

acggguggca ucccguagac ggguuagccg cgaacgauug uccaaucccu aaacuguagc 120

aggcgucugg gaucagccaa cccgucgugc ugugacgucu guagagcuaa aguuuaguua 180

aaucuuaacc cuucagaugg gcuccc 206

<210> 176
<211> 165
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 176
uuggggcggg gcgggaucga gcauaugaaa ggcgagauug aggucuggau agaguuugca 60

cacggcgcgg cggccagcca ucggcgggau gccugccccc gccgcgugca agcugcuauu 120

ccagauuuua ucucucauca cucccucccg caccccccgc cccga 165

<210> 177
<211> 139
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 177
aaggacucgu acaggccggc uagagagcgu aaacuuuuca uauuguuuua cucuuggggc 60

acauuccuug gcgugauagg aggccggggg uggggcgguc ugaggagaug acgcgugcca 120

aggccccucg ccccuccuu 139

<210> 178
<211> 206
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 178
gggagccgag ccaaucagag guuggagggg uaaugccauu gccgacgagu auccaccggc 60

ucgugugauc gcuccauagc uggucucccg aggcagugcg cgggcacgaa caaaacaggc 120

agaagcuaga gugcagucaa cgugauguug gaugggggaag gucgagcgau gacguugcaa 180

cuucaacccc ugacaguucg gcuccc 206

<210> 179
<211> 292
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 179
gaaccaaugc ggaagauacc aaugcacggu cgcauguaaa auuggggcagu uggucaguuu 60

uguuggggug aagucuugcc ccaguuagcc gggaggaaag auauuacacc cgacucauuc 120

ugacgaacgc cucagguagu augcaaccug auacugaggu gaacggcaga augaugcggg 180

uguauauauc caccuccgcu aacugggcga agacuucacu ccaacauaac ggacccgcug 240

ucaccggccc auacccgacg uauuggggcuc uuugguaaca guggucgggu uc 292

<210> 180
<211> 84
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 180
auaccgagau aagcagagga agaauaauua ggugcuaauu ggaagcugca ccuacauucc 60

uuuuuaucug uuuaguuuug guag 84

<210> 181
<211> 199
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 181
agggcguacc aggagguaug aagccucgca ugggagaucu gcgagguauu gggguagacu 60

ucguaaaagg cgcaaacaag cucgcacaaa agcgugagga ugauguagcu aaagaugcau 120

aauucaacag cgauucacgc acccagggug auucguggac cucuuguuga gagcuguacu 180

uuggauagua agacgcccu 199

<210> 182
<211> 292
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 182
cgccccauga guuagaaacg aguucggggc caaaguucua acacguaggu uggaaagggu 60

uuggugaacc uugcggacac ggaggucgug gucggaggag aauuaucgcc cgacgcuugc 120

ccgcuaaccc gugaggugcc aggaaacgcg auacucacgg gaaggagggu agguugcggg 180

cgauaaauuc gguccggacg accuccgcau ucgugggguu cacuaauccc guuccuaccu 240

accccgguca cugaauggcg aacuugguuc uaaauuacaa ggagaacggg ug 292

<210> 183
<211> 292
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 183
gccccacuaa gcuugaagcc auucccgcgu cucgggagaa aagcgggcgu gggauauuua 60

guugugcuga caugucuagc aacggaugac gaaggguuaag aaauaucgcc cgacucgucc 120

ucacaaacgc cagagcacga acgcaaccgu acacucuggc gaaugggggg acgaagcggg 180

cgauaauuuc acgccuuuca uccguugagg gacauguuag cauaauaaaa aguccagcgc 240

ccuacggugc ccacaagacg gaauggaguc gagauuaaaa ugggacgggg gc 292

<210> 184
<211> 91
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 184
aaggcuugcu acuguggagc aaucauucug aacgauagag aaaaugggau uuaauuuauc 60

ggucagaaug auacuccaca auacuaagcc u 91

<210> 185
<211> 195
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 185
ggaggguacc uagccggcug uaacuugugg acuaucggcg ggguaauggg gggcaacuag 60

cugccgaccc auuccuccau cccguccgug gcuacgagag ggugggcgcg acuuggaaug 120

agggaaugga gcgggagaua guuggagucc ccgcccgugc cuauccuuuu cagguuguag 180

ccucugauga gcucu 195

<210> 186
<211> 292
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 186
gccccacucu gacagagacc augucgcgca auaugaacaa acggggcuga gggagguggc 60

uugguggacc uugcgaaccc auagguagac gaggguaccg aaaagacgcc cgacucuggc 120

auacaaaccc gguuggaucc aagaaaugau aaacgaccgg gaaugggugc cagaagcggg 180

uguuauuuuc ucgcccuucu aucugugcau ucgugggguu cacuaaucca gcuccaucag 240

ccgacagcau cgccaauugg acaugggguc uguaggacua agugcagggg gc 292

<210> 187
<211> 292
<212> DNA
<213> Artificial sequence

<220>

<223> Single strand oligonucleotide

<400> 187
ggccccgagg ucuugugccc aaagacaugu cugagacucc agggggaagu ggguaauuua 60

guuuaaggug uaugccacuc ucagguaggc gaagguuagg auugcccccc cgacgcaggc 120

uuacaaacgc ggaugggguug acggaagaac agacauccgu gaaugagagu cugucacggg 180

ggggacaauc gcaccuuccu aucugagcuu ggcauauauu uuaaauaaaa cuaccaacuu 240

ucgaagacuu cugaaagacu uuuuggcggc agguucuaaa ggugagcggg uc 292

<210> 188
<211> 84
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 188
uugggauaug uuaggaaaua agaaaaucga ggugcuaauu ggaagcugca ccuuaggucc 60

ucuugauucc uagccguauc ucau 84

<210> 189
<211> 199
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 189
agggcuuuca cgggcuucgu aggccuugcu aagagauuuu uuaaaauuaa cuggaugacu 60

uagaaaauua cgcaaacaag uagaaauaaa cgcaugugug gugcguugcc aaagaagugu 120

uccacaaaag auacgcaugc uccaucuuag uuugggggac uuucuuacga gagcccgaag 180

cuagagggag agaagcccu 199

<210> 190
<211> 292
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 190
gucccaacc aguuguagcc aauucggaug cugauggaca acacguaaga aggauguggc 60

uuggugagcu ccgcggaccc guagguuuuu gugggaguug aucgugaucc cgacucaugc 120

acgcaaacgc aacgggcugu acgaaaucag agaccguugc gaaugagugu augacgcggg 180

auugucgauc uaucccagga accugcgcau ucgugggguu cacuaauccg aguccgucuu 240

accucgccgc guaaaaguag aauuggggggc aacggguaua gacgagaggg gc 292

<210> 191
<211> 237
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 191
cugacccgua cauaucgaga guugucuggc ccgccacagc cccuagcaaa ucucgucgcg 60

gagccacgcg uaguaugguc gcgagccacg cccgaagcua aaccagaagc accgaaggcu 120

acgcgucccu uauacacugu aacggcaccc cgaacacggg aagagggcuc cgaaggccga 180

cgagauuucc uaggggcugu ggcggguugg acaacuuugg auaugugccg gucaggg 237

<210> 192
<211> 64
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 192
cgcugcggag cucaagaaga acccucuucg aauaauccag gguucuuuua gggcuuugcg 60

guau 64

<210> 193
<211> 110

<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 193
aaaguuaggg gagcacuagg guugauuggu cgucacaguu agaucuuucu gacccuagag 60

acgaaaaagc uguggcgggu uggacaacuu cauaccuccc aaccauagcg 110

<210> 194
<211> 237
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 194
cgggacaguu cauugcgggg guugguggac cccacgaguu cccaagcagg aguaggcgca 60

gaguagcuug acgcaaggua ccggcccacg gacgaccuca aacaguagag accuaacgcg 120

ucaggcuccu auggaaccca uacgaaaccc ccagcagggg aagaguacuc uguagaccgu 180

cuacuccucc uugggaauuc gugggguuca cuaaucccgg cagugagccg ucccggg 237

<210> 195
<211> 237
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 195
cugaaccgau cgcaacggag ugguaucauu cacugccugu cacuuucaua uuguggcgca 60

ggucugccug uggcaugggc gugcuccaca cagaauucau aaccucuuga uccaaacgcu 120

gcgggugacg cauugaaaau guuucuggcc cgaacucggg gaaaaggacc uggaggcugu 180

cgcaauauca aagugacagg cggugaauga uguuauucgg uugcgauccg uucaggg 237

<210> 196
<211> 64

<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 196
accggaagag guaaaugaau uaccuuuccg aauaauccag gugguuuaua ugccuuuucc 60

ggau 64

<210> 197
<211> 110
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 197
aaggcggggg aagcaucugg acgccggaag agguaaauga agaucuucca cauugguggg 60

acgaaaaucg uuugcuaugu aucaucgucc cauaacuucc aauuaggaca 110

<210> 198
<211> 237
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 198
cugaucagag cauugcgagg guugguggac cccgcggaua cacucucugu caagggcccu 60

gagucgcuug gcggaugguu cgcagcccgc gcguaggaca aacuggaguc accaaacccg 120

ccagguccau aagcgacguu uacggaaccc caagcauggg cagaggacuc aggaggcggu 180

ccuugauaca gaguguauuc gugggguuca cuaauccugg caaugcuccg gucaggg 237

<210> 199
<211> 237
<212> DNA
<213> Artificial sequence

<220>

<223> Single strand oligonucleotide

<400> 199
cagaacagau ccggacgguu guguugugcu uuugcuggaa cacuagcuuu uguaggccca 60

gcguuccaag gcgcaaggug acacgcucug uacgaaccua aacccaaagg accuaacgcg 120

ucuuggagac ucuagacuag ggccuuauug caagcaugcg cggacgacgc ugaagacggc 180

cuauagaacc uaguguucca gcaaaaguac agcacaacgg uccggauccg uucuggg 237

<210> 200
<211> 52
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 200
uuuggcccca uguuggagcu ggucgcaccc agcuccacau ggaagacuua cc 52

<210> 201
<211> 118
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 201
aaacaggaaa ugggaagcgg cagaaaugcc auucuccguu uacguucuuc gacgcuuccc 60

gcuuuccugg gacgugagua gggaauagug uuuuucccac uucucaagac cgacccgc 118

<210> 202
<211> 237
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 202
ccgagccgau caugucgcgg auuggugagc cccacgggug caccuacguc auuugucgcu 60

gaguaacaug cugcaaguga cgcgcccugc ggauauuaca aacuagagua uacuaacgcg 120

gcauguucgg aagcaacgcu ucagaaaccc cgaucacggg cagaguacuc gggagcccgg 180

caaaugaucu aggugcauuc gugggguuca cuaauccggg auaugguccg cucgggg 237

<210> 203
<211> 193
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 203
gguggugugu caaagguucg cugccucugc aucuacccuc uaauugccau augagacccu 60

aaacuaccca agccacugga auaaaaauga ggccgccguu ccaaccaaaa cgauaacaua 120

acaaauguua uuacaagggu gaaaagggcg aaggggggug ggugcacggg cgacgcaccg 180

gacgcaccgc cac 193

<210> 204
<211> 111
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 204
gccgugcacc cacuagcagu uacaguguuc augaaauccu uaacuuccuu cccugucggg 60

aggauagaua gggguuuuug ggugcuguac cuguuguugg gaucacgaag a 111

<210> 205
<211> 138
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 205
gaacgccgca gcguuaaaag cugccucugc cucugcaucu aucuucgguu agaaggugaa 60

ggggggcgcc aagaccgcgg uucuaacccu agcuaggugu agcccgaggg agccagcucc 120

uggcggcuug gggcccca 138

<210> 206
<211> 193
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 206
gcaggcgucg ccaggggcug uuggaggggu aaugccauug caauggcuau aagggacuga 60

auacuaccga gagcgcggau gccaaaccca agagacagca ucuaagacaa cgaagaacca 120

auaagguucu uuaaaucggu aaaaagagcc aagcgguggu auugccauuc cauuaaccca 180

guggcgccug cac 193

<210> 207
<211> 351
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 207
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auccccacgg cuggaaccgu ccacccaaca cuaggcagag ucgagcccgc gcgguaccaa 120

aucuggguug gagaauaagu cccgggggua gcccuccaga gggggcccaa ggccacauga 180

gggaugcgug caagggaggg acacagcaug gaccggccug acuacuauug aaagccgaac 240

guggaucaga gucggccgaa ggggcagaau cuacggcccg aaucuugauc caaaccccau 300

agagucaggg cgccaugggu gggugaaauc cacucgcuuc acacccccac a 351

<210> 208
<211> 93
<212> DNA
<213> Artificial sequence

<220>

<223> Single strand oligonucleotide

<400> 208
aaaaccaagc uggugcuaua augcacaaua aggaucaauc agcaccugga ucugagauuc 60

gaguugugcg uuggcgcacc cacguggauc cua 93

<210> 209
<211> 351
<212> DNA
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<220>
<223> Single strand oligonucleotide

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gaccccaugc ccgguaucga ccaccgaucc acgaagacag accaggccgc ccgauuccca 120

auuugugauc gauaaauggg cucgggguuu ucccuuagca gggggaccca gucccuagga 180

uggaugggggg aaugggguggu aaaagccagg gcuaggucug uaaucuauac aaaccccaac 240

ggggcuagua gucagcugag ggggggaaaac ucauagccug aauaccuagc cuaacaccau 300

aguuacaggg cucccugagg uguucauaug ugugcguuga ucacccaccc a 351

<210> 210
<211> 351
<212> DNA
<213> Artificial sequence

<220>
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<400> 210
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uggcgcaagu cagggcccgc ccaccguucc uuugcgauac uccaggccgc ccgauagcca 120

ggcaaagaac gagaaauugg cacgcgucac gucccaacug ggaguugcca cgacgaagac 180

cggauuggug uaaggggggc agagaacagg guggugaccu uccaucaucu aaagacuaac 240

gggguaucga cucagcugag gugguagaaa ccacagccug aaucagauac cuaacgacau 300

ggggagggug accccugacg ugguggcuuc ucuuuccgag ccacucacgc a 351

<210> 211
<211> 351
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 211
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ggaccgaagu cggcuacaua gcaccgucuc uacagaauag uccaggccgc ccguagccca 120

gcuguaagac gagaacauga ugccgguccg cccccauuug gggagaucga aucucuagga 180

uggagguucg gacgggcgac agagauggcg gugaggacgg gccaccagua aaaauccaac 240

ggggcguuaa guuagcguag ugggcagaau gcaacgccua aguucaaugc cuaacaccuu 300

gggguuugug cuccgccuca aguuuugcug ggagcccgua ccacucacgc a 351

<210> 212
<211> 91
<212> DNA
<213> Artificial sequence

<220>
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<400> 212
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uuuucuuguc guggccucac cuguugaugg g 91

<210> 213
<211> 351
<212> DNA
<213> Artificial sequence

<220>
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<400> 213
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gaccccaggc cgggacccgu ccaccgaucc accacaagag cccaggccgc ccgucgccaa 120

cguggugauc gagaauucgg cgcgggguca aauuccgacg aaugguucga agcccaagga 180

gggauguuag caagggcggu aaauaacaug gugagggucg uuugcaauuu uaacucuaac 240

gugguuaaua uuucgcugag gagguagaau ccacagccga acuacuuaac cgaacuccau 300

ugagaugacg uuccaugacu aguucgggcu ggggaucugu acacucgcuc a 351

<210> 214
<211> 351
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 214
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gucucggcgu cuggauacgu ccacugagcc ugaucgaaag accagaccgc ucgcuuccca 120

agaucagcuc accacggagg cugcgaggcu agucaaacgu gacggaccca guccacaggu 180

gggaugggggg uauacguguu auagagauug gaguugccug ucugcgacca aaauccaaac 240

gcgggguuuuc ggcagcugag ggggaacaac ccauagccug cagacaaacc cgaacgccgu 300

cgagauaggg aaccaauagg gguuaguagg uccgcgaauu ucacucucgc a 351

<210> 215
<211> 351
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 215
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gaccccagga ccggacccgu ccaccgucca cggaauaaag gccacuccgc agaaccccca 120

cuuucgggac gacaaauggu cacggggucu cuggucauua ccguguaugu ugcaauugug 180

gggaugcguu gagaauaggc aaauacccug gcggugugug uuucagauca caaagcgaac 240

gggguucuga gugugccgag ggggcauaac ucauggccac agucaagaac cuaaccccau 300

uuagauacgg acccaggaua gggucucggc gggguuuuga acacgggcgc a 351

<210> 216
<211> 100
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 216
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gaaugaucua ggcgcagauu ccacccccauc caacucaaca 100

<210> 217
<211> 351
<212> DNA
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<220>
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<400> 217
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aaccccacgu cugguaacga ccaccggacc gugaucacag uucaggccgc ccgauaccca 120

agucgcgucc gaaaaguagg cccgggguug gcgcuccaaa gcgggaccga guccuaaggu 180

uggauguuug uaagggucgg auacaucagg gugagggcug ucugcuuuaa aaaacccaac 240

gcgggguuugu cagugcugag ucgggacaag acacagccau uagcaaaacc cgaacgcgaa 300

agagauagcg uucccugaua gggucuuggc gauguauggu ucagucacgc a 351

<210> 218
<211> 351
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 218
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gcccccuagu cagaugacga ucccggccgc uugaucauag cccaacccgc gugcagccca 120

cgucgacggu caaaacuugg cacgggggcu ccgcccgaug gcgggguuca acccgcaggc 180

aggaugugug aauagggagg aagcaccacg gcgagggcug uauucuugau aaaaccaaac 240

cuggagugca cuuggcggag uuggaagaaa gcauugccca auugccacuc cgaacgccca 300

agauauagug cuccgugagg gguuaguaag ccugcgagua gcacucacac a 351

<210> 219
<211> 351
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 219
ccggggacgu caccuguggc uucuaccgca agagaacugc aauccguauc acgccggaau 60

aaccacaggu uuggggagcgc ccaccgucca gcuguuaaag uccaggccgc ccgucgccca 120

ugcagcggac gaaaauuaag cacgugguuc gcccuuacua gggggcucga agccauaaua 180

cggaauugcg gacgggggggc acauaucacg gaacggcccu acggcguuga gaacacuaag 240

gcgguacuug auaagcccag ugggaaaaau gcagggccuu accacgguac cgaaagcaaa 300

ugcguagggg cgccguguuu uguggguaaac ucacggguga ugacccuccc a 351

<210> 220
<211> 99
<212> DNA
<213> Artificial sequence

<220>
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<400> 220
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gaaggcugcg aaucgcucuu cguuuaucuc uaauauaca 99

<210> 221
<211> 351

<212> DNA
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<220>
<223> Single strand oligonucleotide

<400> 221
cacgugaggu ccaagccacc auccaagcca agcgaaacaa acacaagccc auuagccccu 60

uaccccacgg cuggguccgc ccacaguucc acuacgaaag gacaggcagc ccggacccca 120

aguagugaac uagaauaagu cccgggguac ccgcguauac gcgugaucua aucagcaggu 180

uugauguuug uaagggaggu auacaacuug gcgguugagu uccacuguuc uaacacuauc 240

gggguccuaa uucagccgau ggggaaaaau uaacggccug auuucaggac ccaacgucac 300

agggaguuug acccagggcu ugguuuccuu guggcuugga ucacgcgcgc a 351

<210> 222
<211> 351
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 222
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uaccccaagu caggaacagu ccacagggcc agugcgaaag accaugccgc cagccuccca 120

ggcauugccc uacaacgugg ccagggguaa agacuaucga guugggccca gccccuauga 180

aggauggcag ucaaggcagg aaauacacgg gaggcguccg caccaugucc caauacgaac 240

gggguucauc auacgcugag ccgguagaag gcauagccgu aggacugaac cuaacaccac 300

gugugugggg gucccguucg gguugguaag ucugcgaauu ccacacaauc a 351

<210> 223
<211> 213
<212> DNA
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<220>
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<400> 223
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guagaagcua gagugaacgg uaccacacag acccgcaucu cggaccaacc cuccgccugc 120

aaccccuucc accccgaccc cccucucgag guccgagaca gggcgguggg agacgagggg 180

gcaagaacuc cguacuuuau uucacguaac caa 213

<210> 224
<211> 100
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 224
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ccuauaaggu ggaugccgua cuuuauuuca cguaaaucuc 100

<210> 225
<211> 167
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand oligonucleotide

<400> 225
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guggacggcc gccccaaagc gacggagaga cggguuccua accaaggugu aggagcagcc 120

gccggcgcuu uuuuuuagua gcuuuucucu ugucagucuc uccucca 167

<210> 226
<211> 213
<212> DNA
<213> Artificial sequence

<220>
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<400> 226
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gcccagaccu gaggcaacgc ggcgccacca accacccacu cguucccgca cugaaacauc 120

caccacaacg uacguagccc cccccacacg gagcgaguuc uggcgggcgg agacgagcgg 180

cggagagggu ugaugagccg aguggauccc caa 213

<210> 227
<211> 213
<212> DNA
<213> Artificial sequence

<220>
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<400> 227
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agaccacacg acgcccacgc agcggcaaca aggcccagcc cgagcccccg cacccucguc 120

uuccacauca accgcagccc cccacccccag gcucgggccc gcccggucgg ugacgagcgg 180

cguagaaccg aggcaaagau aauaaaaaac cga 213

<210> 228
<211> 76
<212> DNA
<213> Artificial sequence

<220>
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<400> 228
ugguuaugac gagcgugccg uacgagccac ggcugcugcu gcgccgccgc gggcuacggc 60

acucuuuuca uaauua 76

<210> 229
<211> 155
<212> DNA
<213> Artificial sequence

<220>
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<400> 229
auggccgccg gcuuagagag ugaaaaaaua uauuucugca aaaggcccac cggccguggg 60

cggcagaaug ccgauuucug cgccugggag agaggggccc gcgcagcgau aaagcuuuug 120

uggggugugua uuuuuacaac ccucucuagc cuaca 155

<210> 230
<211> 213
<212> DNA
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<220>
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<400> 230
cgaggauucg ugggguucac uaaucccccgc cgccuccgcg ccgcccggcc gcuuacuccc 60

uucauccaag cacaugacgc gaaaugaccc acuccaagcc cuaccccacg aaccugcgac 120

gacugcuaca cccuccgacc ccccccccccg gguagggccc gagagggggg ugacgagagg 180

ugaacaggau ugaugagccg gaugaguccc cga 213

<210> 231
<211> 213
<212> DNA
<213> Artificial sequence

<220>
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<400> 231
acauugguuu uacugagucc gcggggcaga gcccgccgcc augaagaucc aguauaaccc 60

aucuagcuac ucgaguaccc ugccucccccg acaccaagcu cgaccccucg cuccaacgua 120

aacaacagau cccccagccc cccccaccug ggucgagccc gugcuuuggu ggacgagcgg 180

gcgagaucuc gcagauuuac aaaaacuaac gua 213

<210> 232
<211> 74
<212> DNA
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<220>
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<400> 232
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ucauguuccu gcau 74

<210> 233
<211> 213
<212> DNA
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<220>
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<400> 233
ugagggugcu cgaucacggc ccugggccaa cgccgccgcu cccgcccccu aucgccucuc 60

cacacaccga ucagcaacac gccgcuaccc acuccuaacg cgagcccacc cguccacuuc 120

uucuucaacc gccgcgaccc ccccccccgg gcucgugucc gagcggucgg agacgagugg 180

uggagaucca ggauugugag ggagcauuuc caa 213

<210> 234
<211> 213
<212> DNA
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<220>
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<400> 234
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gagaauauag caugcuaacc gccgcaacca acgcccaucu cgugccagcc ccacaccaug 120

cccuccuaca gccucagaca ccccaacagg guacgagacc gcgcggucgg agacgagcgg 180

agcaaaggau ugaugaguca gauggauccc cua 213

<210> 235
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<400> 235
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<210> 236
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<400> 236
agaagagagt gagcacacaa agg 23

<210> 237
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<210> 238
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<210> 239
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acagaagata gagagcacta agg 23

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agaaataggc aagtcatcct tgg 23

<210> 244
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acagaagata gagagcacta agg 23

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agaaataggc aagtcatcct tgg 23

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<400> 247
cgtagatgaa tggttccatc agg 23

<210> 248
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aaaaatgacg ctgacagaag agg 23

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<210> 252
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<210> 253
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aggagtgaac ctgagaacag agg 23

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<400> 260
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catcatcaag attctcatcc tgg 23

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tgtgatttac cagatcatgc tgg 23

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tgtgatttac cagatcatgc tgg 23

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tgtgatttac cagatcatgc tgg 23

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tgtgatttac cagatcatgc tgg 23

<210> 287
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