SEQUENCE LISTING

<110> Arrowhead Pharmaceuticals, Inc.
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<120> Compositions and Methods for Inhibiting Gene Expression of LPA

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<210> 80
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<220>
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<210> 81
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<220>
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<210> 84
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tuguccauaa ugguaguagt t 21

<210> 85
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<210> 86
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<210> 87
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<400> 87

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<210> 88
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<400> 103
tugcuuguuc agaaggagct t 21

<210> 104
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<400> 104
tcugaugcca gugugguaut t 21

<210> 105
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<400>  105
tuaggacacc ugauucugut t                                21


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tcucuaggac accugauuct t                                21


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<210> 112
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<210> 113
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<210> 114
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taagggcgaa ucucagcauc ugguau                          26

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<220>
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<400>  115
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<210>  116
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<400>  116
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<210>  117
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<400> 121
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<210> 122
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<400>  122
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<210>  123
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<400>  123
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<210>  124
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ugcgaaucuc agcaucug 18

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<210>  126
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<210> 127
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<400> 127
ugaaugagcc ucgauaac 18

<210> 128
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ugacauugug ucagguug 18

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<400> 133
uggacaccug auucuguu 18

<210> 134
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<210> 135
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<210> 139
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ucaggaucug gauuucg 17

<210> 140
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<210> 141
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<400> 141
ucgacuaugc uggugug 17

<210> 142
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<400> 142
uuuucugggg uccgacu 17

<210> 143
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<210> 144
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<210> 145
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<210> 146
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ugaaugagcc ucgauaa 17

<210> 147
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<400>  147
ugacauugug ucagguu                                    17


<210>  148
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<400>  148
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<210>  149
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<400>  149
uccauuuggg uaguauu                                    17


<210>  150
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<400>  150
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<210>  151
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<400> 151
ugacaccuga uucuguu 17

<210> 152
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<220>
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<400> 152
uggacaccug auucugu 17

<210> 153
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<400> 153
ugagaaugag ccucgauaac ucuuau 26

<210> 154
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<210> 155
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<210>  156
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<400>  156
ucguauaaca auaaggggcu gccuau                          26


<210>  157
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<400>  157
ugagaaugag ccucgauaat t                               21


<210>  158
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<400>  158
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<223> /mod_base = "2'-hydroxy nucleoside"

<400> 159
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<210> 160
<211> 17
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<220>
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<223> /mod_base = "2'-hydroxy nucleoside"

<400> 160
ugacaccuga uucugtt 17

<210> 161
<211> 24
<212> RNA
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<220>
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<400> 161
ucguauaaca auaaggggcu gauu 24

<210> 162
<211> 24
<212> RNA
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<220>
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<400>  162
ucguauaaca auaaggggcu gcuu                              24


<210>  163
<211>  24
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<220>
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<400>  163
ugagaaugag ccucgauaac ucuu                              24


<210>  164
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<220>
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<400>  164
ucguauaaca auaaggggcu u                                 21


<210>  165
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<400>  165
uguauaacaa uaagggg                                      17


<210>  166
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<400> 166
ucguauaaca auaaggg 17

<210> 167
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<400> 168
ugacaccuga uucugtt 17

<210> 169
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<220>
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<220>
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<222> 2-26
<223> /mod_base = "2'-hydroxy nucleoside"

<400> 169
tucguauaac aauaaggggc ugccua 26

<210> 170
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<220>
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<400> 170
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<210> 171
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<212> DNA
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<220>
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<222> 2-26
<223> /mod_base = "2'-hydroxy nucleoside"

<400> 171
tccguauaac aauaaggggc ugccua 26

<210> 172
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<212> RNA
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<220>
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<400> 172
cuccguauaa caauaagggg cugccu 26

<210> 173
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<212> DNA
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<220>
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<400> 173
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<210> 174
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<220>
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<400> 174
uaugagaaug agccucgaua acucuu 26

<210> 175
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<220>
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<400> 175
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<210> 176
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<220>

<223> LPA RNAi agent antisense strand

<400> 176
guggagaaug agccucgaua acucuu 26

<210> 177
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<400> 177
ugagaaugag ccucgauaau u 21

<210> 178
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<400> 178
tcguauaaca auaaggggcu u 21

<210> 179
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<220>
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<400> 179
ugagaaugag ccucgauaau uauaua 26

<210> 180
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<220>
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uaguuaucga ggcucauucu cauu 24

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gccccuuauu guuauacgau u 21

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uguauaacaa uaagggg                                    17


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uguauaacaa uaagggg 17

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ucguauaaca auaaggg                                    17


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ucguauaaca auaaggg                                    17

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ugagaaugag ccucgat 17

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ugacaccuga uucugtt                                    17


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<213>  artificial sequence

<220>
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<223>  /mod_base = "2'-O-methyl nucleoside"

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<223>  /mod_base = "2'-MOE nucleoside"

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<223>  /mod_base = "phosphorothioate linked nucleoside"

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ugacaccuga uucugtc                                    17


<210>  734
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<223> /mod_base = "phosphorothioate linked nucleoside"

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<400> 734
ugacaccuga uucugtc 17

<210> 735
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<220>
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<220>
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<400> 735
tucguauaac aauaaggggc ugccua 26

<210> 736
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<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
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<223> /mod_base = "2'-hydroxy nucleoside"

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<400> 736
uaucguauaa caauaagggg cugccu 26

<210> 737
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<210> 738

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cuccguauaa caauaagggg cugccu                          26


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tugagaauga gccucgauaa cucuua                          26


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<223>  /mod_base = "2'-O-methyl nucleoside"

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<223>  /mod_base = "phosphorothioate linked nucleoside"

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<210>  742
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<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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<210>  743

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<223>  /mod_base = "phosphorothioate linked nucleoside"

<400>  743
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<210>  744
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<400> 744
uaugagaaug agccucgaua acucuu 26

<210> 745
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<220>
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<223> /mod_base = "phosphorothioate linked nucleoside"

<400> 745
tggagaauga gccucgauaa cucuua 26

<210> 746
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<222>  1,3,5,6,7,8,9,11,13,14,15,17,18,19,20,21,22,23,24,25,26
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<223>  /mod_base = "2'-hydroxy nucleoside"

<220>
<221>  modified_base
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guggagaaug agccucgaua acucuu                          26


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ucguauaaca auaaggggcu u                               21


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<220>

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<400> 748
ugagaaugag ccucgauaau u 21

<210> 749
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<220>

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<400> 749
uguauaacaa uaagggg 17

<210> 750
<211> 17
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<223> /mod_base = "2'-MOE nucleoside"

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<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400> 750
ucguauaaca auaaggg 17

<210> 751
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<212> DNA
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<223>  /mod_base = "2'-MOE nucleoside"

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<223>  /mod_base = "phosphorothioate linked nucleoside"

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<400>  751
ugagaaugag ccucgac                                    17


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<223>  /mod_base = "2'-MOE nucleoside"

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<223>  /mod_base = "phosphorothioate linked nucleoside"

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<400>  752
ugacaccuga uucugtc                                    17


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<220>
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<223> /mod_base = "5' end cyclopropyl phosphonate modification"

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tcguauaaca auaaggggcu u 21

<210> 754
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<220>
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<220>
<221> modified_base
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<223> /mod_base = "2'-hydroxy nucleoside"

<220>
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<223> /mod_base = "phosphorothioate linked nucleoside"

<400> 754
ugagaaugag ccucgauaau uauaua 26

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<223>  /mod_base = "phosphorothioate linked nucleoside"

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ucguauaaca auaaggggcu gccuau                          26

<210> 757
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<212> DNA
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ugagaaugag ccucgauaac ucuuau 26

<210> 758
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<400>  758
ugagaaugag ccucgauaac ucuuau                          26

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<220>
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ucguauaaca auaaggggcu gcuu                            24

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ucguauaaca auaaggggcu u                                21


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ugagaaugag ccucgauaac uacgau                          26


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ucguauaaca auaaggggcu gcuu 24

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<212> DNA
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cuacuaccau uauggacaat 20

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uauaucagcc ccuuauuguu auacga 26

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<212> DNA
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<220>
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<223> /mod_base = "2'-hydroxy nucleoside"

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<220>
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<210> 1041
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<212> DNA
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uauauaguua ucgaggcuca uucuca                          26


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uauauaguua ucgaggcuca uucuca                          26


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uauaucagcc ccuuauuguu auacga                          26


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uauaucagcc ccuuauuguu auacga                          26


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uauaucagcc ccuuauuguu auacga                          26


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uauaucagcc ccuuauuguu auacga                          26


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uauaucagcc ccuuauuguu auacga                          26


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uauauaguua ucgaggcuca uucuca                          26


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uauauaguua ucgaggcuca uucuca                          26


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ccccuuauug uuauaca                                    17


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cccuuauugu uauacga                                    17

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agaugcugag auucgca 17

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guuaucgagg cucauua                                    17


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aucgaggcuc auucuca                                    17


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aacagaauca gguguca                                    17


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<210> 1093
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ucagccccuu auuguuauac ga                                22


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<220>
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uauaucagcc ccuuauuguu auacga                          26


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uauaucagcc ccuuauuguu auacga                          26


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gccccuuauu guuauacgau u                                    21


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<220>
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<222>  26
<223>  /mod_base = "inverted nucleoside"

<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

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<222>  1
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uauauaguua ucgaggcuca uucuca                               26


<210>  1124
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<220>
<223>  LPA RNAi agent sense strand

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<222>  14,15,16
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<223>  /mod_base = "inverted nucleoside"

<220>
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<223>  /mod_base = "2'-MOE nucleoside"

<220>
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<222>  6,7
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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uauauaguua ucgaggcuca uucuca                          26


<210>  1125
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<222>  26
<223>  /mod_base = "inverted nucleoside"

<220>
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<223>  /mod_base = "2'-MOE nucleoside"

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<400>  1125
uauauaguua ucgaggcuca uucuca                          26


<210>  1126
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<220>
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<220>
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<222>  26
<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  25
<223>  /mod_base = "2'-MOE nucleoside"

<220>
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uauauaguua ucgaggcuca uucuca                          26


<210>  1127
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<220>
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<222>  14,15,16
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
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<220>
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<222>  26
<223>  /mod_base = "inverted nucleoside"

<220>
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<223>  /mod_base = "2'-MOE nucleoside"

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uauauaguua ucgaggcuca uucuca                          26


<210>  1128
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<220>
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<223>  /mod_base = "2'-O-methyl nucleoside"

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<223>  /mod_base = "inverted nucleoside"

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<223>  /mod_base = "phosphorothioate linked nucleoside"

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auaucagccc cuuauuguua uacgat                          26

<210>  1129
<211>  26
<212>  DNA
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<220>
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<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
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<400>  1129
uaucagcccc uuauuguuau acgaut                          26


<210>  1130
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<212>  DNA
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<220>
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<222>  13,14,15
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<220>
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<222>  26
<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  5,6
<223>  /mod_base = "phosphorothioate linked nucleoside"

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<400>  1130
auauaguuau cgaggcucau ucucat                          26


<210>  1131
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<220>
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<222>  1,2,3,4,5,6,7,8,9,10,11,15,16,17,18,19,20,21,22,23,24,25
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uauaguuauc gaggcucauu cucaut                          26


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<222>  14,15,16
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uauaucagcc ccuuauuguu auacga                          26


<210>  1133

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<222>  1,2,3,4,5,6,10,11,12,13,14,15,16,17,18,19,20,21
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<400>  1133
gccccuuauu guuauacgau u                                21


<210>  1134
<211>  21
<212>  DNA
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<220>
<223>  LPA RNAi agent sense strand

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<222>  7,8,9
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<220>
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<223>  /mod_base = "2'-O-methyl nucleoside"

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<400>  1134
uuaucgaggc ucauucucau u                                21


<210>  1135
<211>  21

<212>  DNA
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<220>
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<400>  1135
gccccuuauu guuauacgau u                                21

<210>  1136
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<220>
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<220>
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<220>

<221>  modified_base
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<223>  /mod_base = "phosphorothioate linked nucleoside"

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uauauaguua ucgaggcuca uucuca                          26


<210>  1137
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<220>
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<220>
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<400>  1137
gccccuuauu guuauacgau u                               21


<210>  1138
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<212>  DNA
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<222> 15,16
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<220>
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25,26
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<220>
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<220>
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<222> 1
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<400> 1138
uauauaauua ucgaggcuca uucuca 26

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<211> 21
<212> DNA
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<220>
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<400> 1139
gccccuuauu guuauacgau u 21

<210> 1140
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<212> DNA
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25,26
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<220>
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<400> 1140
uauauaauua ucgaggcuca uucuca 26

<210> 1141
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<212> DNA
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<220>
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<220>
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<223>  /mod_base = "inverted nucleoside"

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uauaucagcc ccuuauuguu auacga                          26


<210>  1142
<211>  26
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<213>  artificial sequence

<220>
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<220>
<221>  modified_base
<222>  1,2,3,4,5,6,7,8,9,10,11,12,13,17,18,19,20,21,22,23,24,25
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  26
<223>  /mod_base = "inverted nucleoside"

<220>
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<220>

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<400> 1142
uauaucagcc ccuuauuguu auacga 26

<210> 1143
<211> 26
<212> DNA
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<220>
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<220>
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<222> 1,2,3,4,5,6,7,8,9,10,11,12,13,17,18,19,20,21,22,23,24,25
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
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<222> 26
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 7,8
<223> /mod_base = "phosphorothioate linked nucleoside"

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<400> 1143
uauauaguua ucgaggcuca uucuca 26

<210> 1144
<211> 26
<212> DNA
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<220>
<221>  modified_base
<222>  1,2,3,4,5,6,7,8,9,10,11,12,13,17,18,19,20,21,22,23,24,25
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  26
<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  8
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<400>  1144
uauauaguua ucgaggcuca uucuca                          26


<210>  1145
<211>  22
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<220>
<223>  LPA RNAi agent sense strand

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<222>  4,6,8,10,11,12,14,16,18,20
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<220>
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<222>  1,2,3,5,7,9,13,15,17,19,21,22
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<222>  2,22
<223>  /mod_base = "phosphorothioate linked nucleoside"

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<400>  1145
ucagccccuu auuguuauac ga                              22


<210>  1146
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<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

<220>
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<222>  11,12,13
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<220>
<221>  modified_base
<222>  1,2,3,4,5,6,7,8,9,10,14,15,16,17,18,19,20,21,22
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  24
<223>  /mod_base = "inverted nucleoside"

<220>
<221>  modified_base
<222>  23
<223>  /mod_base = "2'-MOE nucleoside"

<220>
<221>  modified_base
<222>  4,24
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
<221>  modified_base
<222>  1

<223>  /mod_base = "5' end (NAG25) modification"

<400>  1146
ggcagccccu uauuguuaua cgatt                          25


<210>  1147
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<213>  artificial sequence

<220>
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<222>  11,12,13
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,2,3,4,5,6,7,8,9,10,14,15,16,17,18,19,20,21,22,24,25
<223>  /mod_base = "2'-O-methyl nucleoside"

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<222>  26
<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  23
<223>  /mod_base = "2'-MOE nucleoside"

<220>
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<222>  4,24
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>  1147
ggcagccccu uauuguuaua cgauut                         26


<210>  1148
<211>  25

<212>  DNA
<213>  artificial sequence

<220>
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<223>  /mod_base = "2'-3' seco nucleoside"

<220>
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<222>  11,12,13
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<222>  24
<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  23
<223>  /mod_base = "2'-MOE nucleoside"

<220>
<221>  modified_base
<222>  4,24
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>  1148
ggcagccccu uauuguuaua cgatt                              25


<210>  1149
<211>  25
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<213>  artificial sequence

<220>
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<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
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<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  23
<223>  /mod_base = "2'-MOE nucleoside"

<220>
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<222>  4,24
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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<222>  1
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<400>  1149
ggcagccccu uauuguuaua cgatt                          25


<210>  1150
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<213>  artificial sequence

<220>
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<220>
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<220>
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<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<222>  22
<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  21
<223>  /mod_base = "2'-MOE nucleoside"

<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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cagccccuua uuguuauacg atttt                          25


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<220>
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<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
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<222>  2,4,6,10,12,14,16,18,19,20,21
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

<400>  1151
gccccuuauu guuauacgau u                                21


<210>  1152
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<220>
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<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  2,4,6,10,12,14,16,18,19,20,21
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<400>  1152
gccccuuauu guuauacgau u                                21


<210>  1153
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<220>
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<220>
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<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<222>  26
<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  8,9
<223>  /mod_base = "phosphorothioate linked nucleoside"

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<400>  1153
uauauaguua ucgaggcuca uucuca                          26


<210>  1154
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<220>
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<222>  14,15,16
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<220>
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<222>  1,2,3,4,5,6,7,8,9,10,11,12,13,17,18,19,20,21,22,23,24,25
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<220>
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<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  9,10
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<222>  1
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<400>  1154
uauauaguua ucgaggcuca uucuca                          26


<210>  1155
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<220>
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<223>  /mod_base = "2'-O-methyl nucleoside"

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<222>  26
<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  6,7
<223>  /mod_base = "phosphorothioate linked nucleoside"

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gcgauaguua ucgaggcuca uucuca                          26


<210>  1156
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<212>  DNA
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<220>

<223>  LPA RNAi agent sense strand

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<220>
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<222>  26
<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  6,7
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>  1156
ugaauaguua ucgaggcuca uucuca                          26


<210>  1157
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<220>
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<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
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<220>

<221> modified_base
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<220>
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<220>
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<400> 1157
aucguaguua ucgaggcuca uucuca 26

<210> 1158
<211> 26
<212> DNA
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<220>
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<220>
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<220>
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<400> 1158
uauauaguua ucgaggcuca uucuca 26

<210> 1159
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<212> DNA
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<220>
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<220>
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<400> 1159
uauaaaguua ucgaggcuca uucuca 26

<210> 1160
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<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  6,7
<223>  /mod_base = "phosphorothioate linked nucleoside"

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<400>  1160
uauauaguua ucgaggcuca uucuca                          26


<210>  1161
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<220>
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<222>  20

<223>  /mod_base = "phosphorothioate linked nucleoside"

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<400>  1161
agccccuuau uguuauacga                                    20


<210>  1162
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<212>  DNA
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<220>
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<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>  1162
aagccccuua uuguuauacg a                                  21


<210>  1163
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<212>  DNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

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<220>
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<222>  1,3,5,7,11,13,15,17,19,20
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<220>
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<222>  1
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<400>  1163
agccccuuau uguuauacga                                20


<210>  1164
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<220>
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<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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<222> 1
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<400> 1164
gcagccccuu auuguuauac ga 22

<210> 1165
<211> 26
<212> DNA
<213> artificial sequence

<220>
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25,26
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<220>
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<400> 1165
uauauaguua ucgaggcuca uucuca 26

<210> 1166
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<212> DNA
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<220>
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<220>
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<220>
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<400> 1166
gcagccccuu auuguuauac ga 22

<210> 1167
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<212> DNA
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<400> 1167
gccccuuauu guuauacgau u 21

<210> 1168

<211> 21
<212> DNA
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<220>
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<400> 1168
gccccuuauu guuauacgau u 21

<210> 1169
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<220>
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<400> 1169

gccccuuauu guuauacgau u 21

<210> 1170
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<220>
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<220>
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<222> 21
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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acgccccuua uuguuauacg a 21

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<220>
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<220>
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<222>  1,2,4,6,8,12,14,16,18,20,21
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
<221>  modified_base
<222>  1
<223>  /mod_base = "5' end (NAG30) modification"

<400>  1171
aagccccuua uuguuauacg a                                21


<210>  1172
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<212>  DNA
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<220>
<223>  LPA RNAi agent sense strand

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<222>  3,5,7,9,10,11,13,15,17,19
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<220>
<221>  modified_base
<222>  1,2,4,6,8,12,14,16,18,20,21
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  1,2
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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<223>  /mod_base = "5' end (NAG30) modification"

<400>  1172
acgccccuua uuguuauacg a                                21


<210>  1173

<211>  22
<212>  DNA
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<220>
<223>  LPA RNAi agent sense strand

<220>
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<222>  4,6,8,10,11,12,14,16,18,20
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
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<222>  1,2,3,5,7,9,13,15,17,19,21,22
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  1,2
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>  1173
gcagccccuu auuguuauac ga                                22


<210>  1174
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<212>  DNA
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<220>
<223>  LPA RNAi agent sense strand

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<221>  modified_base
<222>  1,3,5,7,8,9,11,13,15,17
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  2,4,6,10,12,14,16,18,19,20,21
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>

<221> modified_base
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<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400> 1174
gccccuuauu guuauacgau u 21

<210> 1175
<211> 22
<212> DNA
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<220>
<223> LPA RNAi agent sense strand

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<220>
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<220>
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<220>
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<400> 1175
agccccuuau uguuauacga uu 22

<210> 1176
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<212> DNA
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<220>
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<220>
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<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  1,2
<223>  /mod_base = "phosphorothioate linked nucleoside"

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<222>  1
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<400>  1176
aagccccuua uuguuauacg a                                21


<210>  1177
<211>  23
<212>  DNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

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<222>  3,5,7,9,10,11,13,15,17,19
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<220>
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<220>
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<222>  1,2,23
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
<221>  modified_base
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<400>  1177
aagccccuua uuguuauacg auu                                23


<210>  1178
<211>  23
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<213>  artificial sequence

<220>
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<220>
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<222>  3,5,7,9,10,11,13,15,17,19
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
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<222>  1,2,4,6,8,12,14,16,18,20,22,23
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<223>  /mod_base = "inverted nucleoside"

<220>
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<222>  1,2,23
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>  1178
aagccccuua uuguuauacg auu                                23


<210>  1179
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<220>
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<222>  14,15,16
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<220>
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<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>  1179
uauauaguua ucgaggcuca uucuca                          26


<210>  1180
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<220>
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<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

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<400>  1180
uaucagcccc uuauuguuau acga                              24


<210>  1181
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<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

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uagcagcccc uuauuguuau acga                              24


<210>  1182
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uaucagcccc uuauuguuau acga 24

<210> 1183
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<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

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gcagccccuu auuguuauac ga                                22


<210>  1184
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<220>
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<400>  1184
gcagccccuu auuguuauac ga                                22


<210>  1185
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<220>
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<400>  1185
auaagaguua ucgaggcuca uucuca                          26


<210>  1186
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<222>  14,15,16
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<222> 26
<223> /mod_base = "inverted nucleoside"

<220>
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<220>
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<400> 1186
auaagaguua ucgaggcuca uucuca 26

<210> 1187
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<212> DNA
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<400> 1187
auaggcagcc ccuuauuguu auacga 26

<210> 1188
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<400> 1188
auaggcagcc ccuuauuguu auacga 26

<210> 1189
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<220>

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<220>
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<220>
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<220>
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<400> 1189
cagccccuua uuguuauacg a 21

<210> 1190
<211> 21
<212> DNA
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<220>
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cagccccuua uuguuauacg a 21

<210> 1191
<211> 21
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<220>
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<220>
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<220>
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<400> 1191
gccccuuauu guuauacgau u 21

<210> 1192
<211> 21
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<223>  /mod_base = "phosphorothioate linked nucleoside"

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<400>  1192
gccccuuauu guuauacgau u                                21


<210>  1193
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<223>  /mod_base = "2'-O-methyl nucleoside"

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<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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gccccuuauu guuauacgau u                                21

<210>  1194
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<213>  artificial sequence

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<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>  1194
gccccuuauu guuauacgau u                                21


<210>  1195
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<220>
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<220>
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<220>
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<223>  /mod_base = "inverted nucleoside"

<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>  1195
uauaucagcc cctuauuguu auacga                          26


<210>  1196
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<220>
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<400> 1196
gcccctuauu guuauacgau u 21

<210> 1197
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<220>
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<220>
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<220>
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<400> 1197
uauauaguua ucgaggcuca uucuca 26

<210> 1198
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<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

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uauauaguua ucgaggcuca uucuca                          26


<210>  1199
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<220>
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<400>  1199

uauauaguua ucgaggcuca uucuca 26

<210> 1200
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<220>
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<220>
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<220>
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uauauaguua ucgaggcuca uucuca 26

<210> 1201
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<220>
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<220>
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<222>  1,3,5,7,9,11,13,15,17,19,20,21,22,23,24,25
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<220>
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<223>  /mod_base = "2'-hydroxy nucleoside"

<220>
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<223>  /mod_base = "phosphorothioate linked nucleoside"

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uauauaguua ucgaggcuca uucuca                          26


<210>  1202
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<220>
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<220>
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<222>  1,3,5,7,9,11,13,15,17,18,19,21,22,23,24,25
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<220>
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<222>  2,4
<223>  /mod_base = "2'-hydroxy nucleoside"

<220>
<221>  modified_base
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<223>  /mod_base = "phosphorothioate linked nucleoside"

<400>  1202
uauauaguua ucgaggcuca uucuca                          26


<210>  1203

<211> 26
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<220>
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<220>
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<220>
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<222> 2,4
<223> /mod_base = "2'-hydroxy nucleoside"

<220>
<221> modified_base
<222> 6,7
<223> /mod_base = "phosphorothioate linked nucleoside"

<400> 1203
uauauaguua ucgaggcuca uucuca 26

<210> 1204
<211> 26
<212> DNA
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<220>
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<220>
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<222> 1,3,5,7,9,11,13,15,17,18,19,20,21,22,23,25
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<220>

<221> modified_base
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<223> /mod_base = "2'-hydroxy nucleoside"

<220>
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<222> 6,7
<223> /mod_base = "phosphorothioate linked nucleoside"

<400> 1204
uauauaguua ucgaggcuca uucuca 26

<210> 1205
<211> 26
<212> DNA
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<220>
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<223> /mod_base = "2'-hydroxy nucleoside"

<220>
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<400> 1205
uauauaguua ucgaggcuca uucuca 26

<210> 1206
<211> 26
<212> DNA
<213> artificial sequence

<220>
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<222> 1,3,5,7,9,10,11,13,14,15,17,19,21,23,25
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 2,4
<223> /mod_base = "2'-hydroxy nucleoside"

<220>
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<222> 6,7
<223> /mod_base = "phosphorothioate linked nucleoside"

<400> 1235
uauaucagaa acagaaucag guguca 26

<210> 1236
<211> 26
<212> DNA
<213> artificial sequence

<220>
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<220>
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<222> 6,10,12,16,18,20,22,24,26
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,8,9,11,13,14,15,17,19,21,23,25
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 2,4
<223> /mod_base = "2'-hydroxy nucleoside"

<220>
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<222> 6,7
<223> /mod_base = "phosphorothioate linked nucleoside"

<400> 1236
uauaucagaa acagaaucag guguca 26

<210> 1237
<211> 26
<212> DNA
<213> artificial sequence

<220>
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<220>
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<222> 6,12,15,16,18,20,22,24,26
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
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<222>  1,3,5,7,8,9,10,11,13,14,17,19,21,23,25
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<220>
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<222>  2,4
<223>  /mod_base = "2'-hydroxy nucleoside"

<220>
<221>  modified_base
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<223>  /mod_base = "phosphorothioate linked nucleoside"

<400>  1237
uauaucagaa acagaaucag guguca                          26


<210>  1238
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<212>  DNA
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<220>
<223>  LPA RNAi agent sense strand

<220>
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<222>  6,12,14,16,18,20,22,24,26
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
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<222>  1,3,5,7,8,9,10,11,13,15,17,19,21,23,25
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<220>
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<222>  2,4
<223>  /mod_base = "2'-hydroxy nucleoside"

<220>
<221>  modified_base
<222>  6,7
<223>  /mod_base = "phosphorothioate linked nucleoside"

<400>  1238
uauaucagaa acagaaucag guguca                          26

<210>  1239
<211>  26
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<220>
<223>  LPA RNAi agent sense strand

<220>
<221>  modified_base
<222>  6,12,14,15,16,18,20,22,24,26
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,3,5,7,8,9,10,11,13,17,19,21,23,25
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<222>  2,4
<223>  /mod_base = "2'-hydroxy nucleoside"

<220>
<221>  modified_base
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<223>  /mod_base = "phosphorothioate linked nucleoside"

<400>  1239
uauaucagaa acagaaucag guguca                          26


<210>  1240
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<220>
<223>  LPA RNAi agent sense strand

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<222>  6,10,12,15,16,18,20,22,24,26
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,3,5,7,8,9,11,13,14,17,19,21,23,25
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
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<222>  2,4
<223>  /mod_base = "2'-hydroxy nucleoside"

<220>
<221>  modified_base
<222>  6,7
<223>  /mod_base = "phosphorothioate linked nucleoside"

<400>  1240
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<210>  1241
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<220>
<223>  LPA RNAi agent sense strand

<220>
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<222>  1,2,3,4,5,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
<223>  /mod_base = "2'-hydroxy nucleoside"

<400>  1241
gcccctuauu guuauacgau u                               21


<210>  1242
<211>  19
<212>  DNA
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<220>
<223>  LPA RNAi agent antisense strand

<220>
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<222>  2-19
<223>  /mod_base = "2'-hydroxy nucleoside"

<400>  1242
tcguauaaca auaaggggc                                  19


<210>  1243

<211> 19
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<220>
<223> LPA RNAi agent sense strand

<400> 1243
gccccuuauu guuauacga 19

<210> 1244
<211> 18
<212> RNA
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<220>
<223> LPA RNAi agent antisense strand

<400> 1244
ucguauaaca auaagggg 18

<210> 1245
<211> 18
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<220>
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<400> 1245
ccccuuauug uuauacga 18

<210> 1246
<211> 17
<212> RNA
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<220>
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<400> 1246
ucguauaaca auaaggg 17

<210> 1247
<211> 17
<212> RNA

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<220>
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<400> 1247
cccuuauugu uauacga 17

<210> 1248
<211> 19
<212> DNA
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<220>
<223> LPA RNAi agent antisense strand

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<400> 1248
tgagaaugag ccucgauaa 19

<210> 1249
<211> 19
<212> RNA
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<220>
<223> LPA RNAi agent sense strand

<400> 1249
uuaucgaggc ucauucuca 19

<210> 1250
<211> 18
<212> RNA
<213> artificial sequence

<220>
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<400> 1250
ugagaaugag ccucgaua 18

<210> 1251
<211> 18
<212> RNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<400> 1251
uaucgaggcu cauucuca 18

<210> 1252
<211> 17
<212> RNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<400> 1252
ugagaaugag ccucgau 17

<210> 1253
<211> 17
<212> RNA
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<220>
<223> LPA RNAi agent sense strand

<400> 1253
aucgaggcuc auucuca 17

<210> 1254
<211> 17
<212> RNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<400> 1254
uguauaacaa uaagggg 17

<210> 1255
<211> 17

<212> RNA
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<220>
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<400> 1255
ccccuuauug uuauaca 17

<210> 1256
<211> 21
<212> DNA
<213> artificial sequence

<220>
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<220>
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<223> 1,3,5,7,8,9,11,13,15,17
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 2,4,6,9,10,12,14,16,18,19,21,21
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 21
<223> /mod_base = "phosphorothioate linked nucleoside"

<400> 1256
gccccuuauu guuauacgau u 21

<210> 1257
<211> 21
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<223> 9,10,11
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,2,3,4,5,6,7,8,12,13,14,15,16,17,18,19,20
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  1,2,21
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
<221>  modified_base
<222>  1
<223>  /mod_base = "5' end (NAG37) modification"

<400>  1257
cagccccuua uuguuauacg a                                21


<210>  1258
<211>  19
<212>  RNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

<400>  1258
uuaucgaggc ucauucuca                                   19


<210>  1259
<211>  19
<212>  RNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

<400>  1259
gccccuuauu guuauacga                                   19


<210>  1260
<211>  22
<212>  RNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

<400> 1260
acagccccuu auuguuauac ga 22

<210> 1261
<211> 22
<212> RNA
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<220>
<223> LPA RNAi agent sense strand

<400> 1261
aaagccccuu auuguuauac ga 22

<210> 1262
<211> 21
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
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<223> 2,4,6,8,10,12,14,16,18
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,11,13,15,17,19,20,21
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 2,3,4,21
<223> /mod_base = "phosphorothioate linked nucleoside"

<400> 1262
ugagaaugag ccucgauaau u 21

<210> 1263
<211> 21
<212> DNA
<213> artificial sequence

<220>

<223> LPA RNAi agent antisense strand

<220>
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<223> 2,4,6,8,9,10,12,14,16,18
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 3,5,7,11,13,15,17,19,20,21
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 1
<223> /mod_base = "2'-MOE nucleoside"

<220>
<221> modified_base
<222> 2,3,4,21
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
<221> modified_base
<222> 1
<223> /mod_base = "5' end cyclopropyl phosphonate modification"

<400> 1263
tcguauaaca auaaggggcu u 21

<210> 1264
<211> 21
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
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<223> 2,4,6,8,10,12,14,16,18
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 3,5,7,9,11,13,15,17,19,20,21
<223> /mod_base = "2'-O-methyl nucleoside"

<220>

<221> modified_base
<222> 1
<223> /mod_base = "2'-MOE nucleoside"

<220>
<221> modified_base
<222> 2,3,4,21
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<222> 1
<223> /mod_base = "5' end cyclopropyl phosphonate modification"

<400> 1264
tcguauaaca auaaggggcu u 21

<210> 1265
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<223> 2,9,12,14,18,22
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,4,5,6,7,8,10,11,13,15,16,17,19,20,21,23,24,26
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 25
<223> /mod_base = "2'-hydroxy nucleoside"

<220>
<221> modified_base
<222> 2,3,23,24
<223> /mod_base = "phosphorothioate linked nucleoside"

<400> 1265
ucguauaaca auaaggggcu gccuau 26

<210>  1266
<211>  26
<212>  DNA
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<220>
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<220>
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<223>  2,6,9,12,14,18,22
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,3,4,5,7,8,10,11,13,15,16,17,19,20,21,23,24,26
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  25
<223>  /mod_base = "2'-hydroxy nucleoside"

<220>
<221>  modified_base
<222>  2,3,23,24
<223>  /mod_base = "phosphorothioate linked nucleoside"

<400>  1266
ucguauaaca auaaggggcu gccuau                          26


<210>  1267
<211>  21
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<213>  artificial sequence

<220>
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<220>
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<223>  2,4,6,12,14,16,18,20
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,3,5,7,8,9,10,11,13,15,17,19,21
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  2,3,20,21
<223>  /mod_base = "phosphorothioate linked nucleoside"

<400>  1267
ucguauaaca auaaggggcu u                                21


<210>  1268
<211>  21
<212>  DNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent antisense strand

<220>
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<223>  2,4,6,8,9,10,12,14,16,18
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,3,5,7,11,13,15,17,19,20,21
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  2,3,4,21
<223>  /mod_base = "phosphorothioate linked nucleoside"

<400>  1268
ucguauaaca auaaggggcu u                                21


<210>  1269
<211>  26
<212>  DNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

<220>
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<223>  14,15,16
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>

<221>  modified_base
<222>  1-13,17-26
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  6,7
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
<221>  modified_base
<222>  1
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<400>  1269
uauauaguua ucgaggcuca uucuca                          26

<210>  1270
<211>  19
<212>  DNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

<220>
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<223>  7,8,9
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,2,3,4,5,6,10,11,12,13,14,15,16,17,18,19
<223>  /mod_base = "2'-O-methyl nucleoside"

<400>  1270
uuaucgaggc ucauucuca                                  19

<210>  1271
<211>  19
<212>  DNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

<220>
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<223>  1,2,5,7,8,9,11,13,15,17
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  2,4,6,10,12,14,16,18,19
<223>  /mod_base = "2'-O-methyl nucleoside"

<400>  1271
gccccuuauu guuauacga                                19


<210>  1272
<211>  21
<212>  DNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

<220>
<221>  modified_base
<223>  7,8,9
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,2,3,4,5,6,10,11,12,13,14,15,16,17,18,19,20,21
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
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<223>  /mod_base = "phosphorothioate linked nucleoside"

<400>  1272
gccccuuauu guuauacgau u                             21


<210>  1273
<211>  26
<212>  DNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

<220>
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<223>  14,15,16

<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1-13,17-26
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  6,7
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
<221>  modified_base
<222>  1
<223>  /mod_base = "5' end (NAG25) modification"

<400>  1273
uauaucagcc ccuuauuguu auacga                          26

<210>  1274
<211>  19
<212>  DNA
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<220>
<223>  LPA RNAi agent sense strand

<220>
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<223>  7,8,9
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,2,3,4,5,6,10,11,12,13,14,15,16,17,18,19
<223>  /mod_base = "2'-O-methyl nucleoside"

<400>  1274
gccccuuauu guuauacga                                  19

<210>  1275
<211>  21
<212>  DNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

<220>
<221>  modified_base
<223>  9,10,11
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,2,3,4,5,6,7,8,12,13,14,15,16,17,18,19,20
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  1,2,21
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
<221>  modified_base
<222>  1
<223>  /mod_base = "5' end (NAG25)s modification"

<400>  1275
aagccccuua uuguuauacg a                                21


<210>  1276
<211>  21
<212>  DNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

<220>
<221>  modified_base
<223>  9,10,11
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,2,3,4,5,6,7,8,12,13,14,15,16,17,18,19,20,21
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  1,2
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
<221>  modified_base

<222> 1
<223> /mod_base = "5' end (NAG25)s modification"

<400> 1276
cagccccuua uuguuauacg a 21

<210> 1277
<211> 19
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<223> 7,8,9
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<220>
<221> modified_base
<222> 1,2,3,4,5,6,10,11,12,13,14,15,16,17,18,19
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 1,2
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
<221> modified_base
<222> 1
<223> /mod_base = "5' end (NAG25)s modification"

<400> 1277
gccccuuauu guuauacga 19

<210> 1278
<211> 19
<212> DNA
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<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<223> 7,8,9

<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,2,3,4,5,6,10,11,12,13,14,15,16,17,18
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  1,2,19
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
<221>  modified_base
<222>  1
<223>  /mod_base = "5' end (NAG25)s modification"

<400>  1278
gccccuuauu guuauacga                                    19


<210>  1279
<211>  21
<212>  DNA
<213>  artificial sequence

<220>
<223>  LPA RNAi agent sense strand

<220>
<221>  modified_base
<223>  9,10,11
<223>  /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221>  modified_base
<222>  1,2,3,4,5,6,7,8,12,13,14,15,16,17,18,19,20,21
<223>  /mod_base = "2'-O-methyl nucleoside"

<220>
<221>  modified_base
<222>  1,2
<223>  /mod_base = "phosphorothioate linked nucleoside"

<220>
<221>  modified_base
<222>  1
<223>  /mod_base = "5' end (NAG25)s modification"

<400>  1279

aagccccuua uuguuauacg a 21

<210> 1280
<211> 18
<212> RNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<400> 1280
cguauaacaa uaaggggc 18

<210> 1281
<211> 18
<212> RNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<400> 1281
gagaaugagc cucgauaa 18

<210> 1282
<211> 19
<212> RNA
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