SEQUENCE LISTING

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

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uguauaacaa uaaggggnn 19

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ugagaaugag ccucgauaac ucuuau 26

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ucguauaaca auaaggggcu gccuau   26

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ucguauaaca auaaggggcu gauu   24

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ucguauaaca auaaggggcu gcuu   24

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<222> 25
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ucguauaaca auaaggggcu gccuau 26

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ugagaaugag ccucgauaac ucuuau 26

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ucguauaaca auaaggggcu gccuau 26

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<220>
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ugagaaugag ccucgauaac ucuuau 26

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ugagaaugag ccucgauaac ucuuau 26

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26
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<220>
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<400>
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<212> DNA
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<223> /mod_base = "phosphorothioate linked nucleoside"

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

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ucguauaaca auaaggggcu gccuau 26

<210> 719

<211> 26
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<220>
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<220>
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ucguauaaca auaaggggcu gccuau 26

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ucguauaaca auaaggggcu gccuau 26

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ucguauaaca auaaggggcu gccuau 26

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<220>
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<220>
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uguauaacaa uaaggggnn 19

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

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

<220>
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uguauaacaa uaagggg 17

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

<220>
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uguauaacaa uaagggg 17

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ucguauaaca auaagggnn 19

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

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<223> /mod_base = "phosphorothioate linked nucleoside"

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<222> 16,17
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ugagaaugag ccucgatnn 19

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

<220>
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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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ugagaaugag ccucgac 17

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<220>
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<221> modified_base
<222> 2,3,18,19
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
<221> modified_base
<222> 19
<223> /mod_base = "3' end thioate(PAZ) modification"

<400>
ugacaccuga uucugttnn 19

<210> 733
<211> 17
<212> DNA
<213> artificial sequence

<220>
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<220>
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<222> 2,4,6,8,10,12,14

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

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

<220>
<221> modified_base
<222> 16,17
<223> /mod_base = "2'-MOE nucleoside"

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

<220>
<221> modified_base
<222> 17
<223> /mod_base = "3' end (Sp18)s(PAZ) modification"

<400>
ugacaccuga uucugtc 17

<210> 734
<211> 17
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 2,4,6,8,10,12,14
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

<220>
<221> modified_base
<222> 16,17
<223> /mod_base = "2'-MOE nucleoside"

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

<220>
<221> modified_base
<222> 17
<223> /mod_base = "3' end (C12)s(PAZ) modification"

<400>
ugacaccuga uucugtc 17

<210> 735
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 3,5,7,13,15,17,19,21,23
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 2,4,6,8,9,10,11,12,14,16,18,20,22,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 3,4,24,25
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
tucguauaac aauaaggggc ugccua 26

<210> 736
<211> 26
<212> DNA
<213> artificial sequence

<220>

<223> LPA RNAi agent antisense strand

<220>
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<222> 4,6,8,14,16,18,20,22,24
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,10,11,12,13,15,17,19,21,23,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

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

<220>
<221> modified_base
<222> 4,5,25,26
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
uaucguauaa caauaagggg cugccu   26

<210> 737
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 3,5,7,13,15,17,19,21,23
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 2,4,6,8,9,10,11,12,14,16,18,20,22,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 3,4,24,25
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
tccguauaac aauaaggggc ugccua 26

<210> 738
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
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<222> 4,6,8,14,16,18,20,22,24
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,10,11,12,13,15,17,19,21,23,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

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

<220>
<221> modified_base
<222> 4,5,25,26
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
cuccguauaa caauaagggg cugccu 26

<210> 739
<211> 26
<212> DNA
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<220>
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<220>
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<222> 3,5,7,9,11,15,17,19,21

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

<220>
<221> modified_base
<222> 2,4,6,8,10,12,13,14,16,18,20,22,23,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 3,4,24,25
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
tugagaauga gccucgauaa cucuua 26

<210> 740
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
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<222> 4,6,8,10,12,16,18,20,22
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,11,13,14,15,17,19,21,23,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

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

<220>
<221> modified_base
<222> 4,5,25,26
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
uaugagaaug agccucgaua acucuu 26

<210> 741
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

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

<220>
<221> modified_base
<222> 2,4,6,8,10,12,13,14,16,18,20,22,23,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 3,4,24,25
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
tggagaauga gccucgauaa cucuua 26

<210> 742
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 4,6,8,10,12,16,18,20,22
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,11,13,14,15,17,19,21,23,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 2

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

<220>
<221> modified_base
<222> 4,5,25,26
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
guggagaaug agccucgaua acucuu 26

<210> 743
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
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<222> 3,9,11,15
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 2,4,5,6,7,8,10,12,13,14,16,17,18,19,20,21,22,23,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 3,4,24,25
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
tugagaauga gccucgauaa cucuua 26

<210> 744
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
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<222> 4,10,12,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,6,7,8,9,11,13,14,15,17,18,19,20,21,22,23,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

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

<220>
<221> modified_base
<222> 4,5,25,26
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
uaugagaaug agccucgaua acucuu 26

<210> 745
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
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<222> 3,9,11,15
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 2,4,5,6,7,8,10,12,13,14,16,17,18,19,20,21,22,23,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 3,4,24,25
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
tggagaauga gccucgauaa cucuua 26

<210> 746
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
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<222> 4,10,12,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,6,7,8,9,11,13,14,15,17,18,19,20,21,22,23,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<400>
guggagaaug agccucgaua acucuu 26

<210> 747
<211> 21
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

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

<220>
<221> modified_base

<222> 1,3,5,7,8,9,10,11,13,15,17,19,20,21
<223> /mod_base = "2'-O-methyl nucleoside"

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

<400>
ucguauaaca auaaggggcu u 21

<210> 748
<211> 21
<212> DNA
<213> artificial sequence

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

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

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

<400>
ugagaaugag ccucgauaau u 21

<210> 749
<211> 17
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>

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

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

<220>
<221> modified_base
<222> 16,17
<223> /mod_base = "2'-MOE nucleoside"

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

<220>
<221> modified_base
<222> 17
<223> /mod_base = "3' end s(C12)s(PAZ) modification"

<400>
uguauaacaa uaagggg   17

<210> 750
<211> 17
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

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

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

<220>
<221> modified_base

<222> 16,17
<223> /mod_base = "2'-MOE nucleoside"

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

<220>
<221> modified_base
<222> 17
<223> /mod_base = "3' end s(C12)s(PAZ) modification"

<400>
ucguauaaca auaaggg 17

<210> 751
<211> 17
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 2,4,6,8,10,12,14
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

<220>
<221> modified_base
<222> 16,17
<223> /mod_base = "2'-MOE nucleoside"

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

<220>
<221> modified_base
<222> 17

<223> /mod_base = "3' end s(C12)s(PAZ) modification"

<400>
ugagaaugag ccucgac 17

<210> 752
<211> 17
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

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

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

<220>
<221> modified_base
<222> 16,17
<223> /mod_base = "2'-MOE nucleoside"

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

<220>
<221> modified_base
<222> 17
<223> /mod_base = "3' end s(C12)s(PAZ) modification"

<400>
ugacaccuga uucugtc 17

<210> 753
<211> 21
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
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<222> 2,4,6,8,9,10,14,16,18
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 3,5,7,11,12,13,15,17,19,20,21
<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>
tcguauaaca auaaggggcu u 21

<210> 754
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 2,4,6,8,10,14,16,18
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,11,12,13,15,17,19,20,21

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

<220>
<221> modified_base
<222> 22,23,24,25,26
<223> /mod_base = "2'-hydroxy nucleoside"

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

<400>
ugagaaugag ccucgauaau uauaua 26

<210> 755
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 2,4,6,12,14,16,18,20,22
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,8,9,10,11,13,15,17,19,21,23,24,26
<223> /mod_base = "2'-O-methyl nucleoside"

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

<220>
<221> modified_base
<222> 2,3,22,23
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
ucguauaaca auaaggggcu gccuau 26

<210> 756
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 2,4,6,12,14,16,18,20,22
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,8,9,10,11,13,15,17,19,21,23,24,26
<223> /mod_base = "2'-O-methyl nucleoside"

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

<220>
<221> modified_base
<222> 2,3,22
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
ucguauaaca auaaggggcu gccuau 26

<210> 757
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 2,4,6,8,10,14,16,18,20
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,11,12,13,15,17,19,21,22,23,24,26

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

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

<220>
<221> modified_base
<222> 2,3,22,23
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
ugagaaugag ccucgauaac ucuuau 26

<210> 758
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 2,4,6,8,10,14,16,18,20
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,11,12,13,15,17,19,21,22,23,24,26
<223> /mod_base = "2'-O-methyl nucleoside"

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

<220>
<221> modified_base
<222> 2,3,22
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
ugagaaugag ccucgauaac ucuuau 26

<210> 759
<211> 24
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 2,4,6,8,9,10,14,16,18,20
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,11,12,13,15,17,19,21,22,23,24
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 2,3,4,23,24
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
ucguauaaca auaaggggcu gcuu 24

<210> 760
<211> 21
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 2,4,6,8,9,10,16,18
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

<220>
<221> modified_base
<222> 2,3,4,21

<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
ucguauaaca auaaggggcu u 21

<210> 761
<211> 21
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 2,4,6,8,9,10,12,16,18
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,11,13,14,15,17,19,20,21
<223> /mod_base = "2'-O-methyl nucleoside"

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

<400>
ucguauaaca auaaggggcu u 21

<210> 762
<211> 23
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 2,4,6,12,14,16,18,20,22
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base

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

<220>
<221> modified_base
<222> 2,3,22,23
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
ucguauaaca auaaggggcu gcc   23

<210> 763
<211> 24
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<222> 3,5,7,13,15,17,19,21,23
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 2,4,6,8,9,10,11,12,14,16,18,20,22,24
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 3,4,23,24
<223> /mod_base = "phosphorothioate linked nucleoside"

<400>
tucguauaac aauaaggggc ugcc   24

<210> 764
<211> 24
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>

<221> modified_base
<222> 3,5,7,13,15,17,19,21
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

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

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

<220>
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<400>

tucguauaac aauaaggggc ug 22

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

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tcguauaaca auaaggggcu u 21

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<220>
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<220>

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ugagaaugag ccucgauaac ucuuau 26

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<220>
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ugagaaugag ccucgauaac ucuuau 26

<210> 772
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<220>
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<220>
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<223> /mod_base = "2'-hydroxy nucleoside"

<220>
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ugagaaugag ccucgauaac uaucgc 26

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<220>

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

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ugagaaugag ccucgauaac uauuca 26

<210> 774
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<212> DNA
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<220>
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<220>
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<222> 25
<223> /mod_base = "2'-hydroxy nucleoside"

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

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ugagaaugag ccucgauaac uacgau 26

<210> 775
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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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<223> /mod_base = "phosphorothioate linked nucleoside"

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ugagaaugag ccucgauaac ucuuau 26

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

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ugagaaugag ccucgauaac ucuuau 26

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

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

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<400>
ugagaaugag ccucgauaac ucuuau 26

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ugagaaugag ccucgauaac ucuuau 26

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<220>
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<220>
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<400>
ucguauaaca auaaggggcg u 21

<210> 780
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<220>
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<220>
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<400>
ucguauaaca auaaggggcu gcuu   24

<210> 782
<211> 24
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<400>
ucguauaaca auaaggggcu gcuu 24

<210> 784
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<220>
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<400>
ugagaaugag ccucgauaac ucuuau 26

<210> 785
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<220>
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<400>
ugagaaugag ccucgauaac ucuuau 26

<210> 786
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<220>
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<223> /mod_base = "2'-hydroxy nucleoside"

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

<220>
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<400>
ucguauaaca auaaggggcu gccuau 26

<210> 787
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<220>
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<400>
ucguauaaca auaaggggcu u 21

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ucguauaaca auaaggggcu u 21

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<220>
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<220>
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<220>
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<400>
ucguauaaca auaaggggcu g 21

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

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

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

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ugagaaugag ccucgauaac ucuuau   26

<210> 793
<211> 26
<212> DNA

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<220>
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<220>
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<400>
ugagaaugag ccucgauaac ucuuau 26

<210> 794
<211> 26
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<223> /mod_base = "2'-O-methyl nucleoside"

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

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

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

<220>
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agaaucaggu guccuagaat 20

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ucaggugucc uagagacuat 20

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uauagccccu uauuguuaua cat 23

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uaugccccuu auuguuauac gat 23

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<220>

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uauacacaau gcucagacgc aat 23

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<223> /mod_base = "inverted nucleoside"

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cacaaugcuc agacgcagat 20

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gacugaggaa acccccggat 20

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cuacuaccau uauggacaat 20

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acuaccauua uggacagaat 20

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agaugcugag auucgcccat 20

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agauucgccc uugguguuat 20

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uaucgaggcu cauucuccat 20

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gcuccuucug aacaagcaat 20

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auaccacacu ggcaucagat 20

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acagaaucag guguccuaat 20

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gaaucaggug uccuagagat 20

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aaucaggugu ccuagagaat 20

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aucagguguc cuagagacat 20

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

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uauauaguua ucgaggcuca uucuca 26

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uauauaguua ucgaggcuca uucuca 26

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

<220>
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uauauaguua ucgaggcuca uucuca 26

<210> 1059
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<223> /mod_base = "2'-hydroxy nucleoside"

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uauauaguua ucgaggcuca uucuca 26

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

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uauauaguua ucgaggcuca uucuca 26

<210> 1061
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<222> 2,4
<223> /mod_base = "2'-hydroxy nucleoside"

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

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uauauaguua ucgaggcuca uucuca 26

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

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<210> 1064
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uauaucagcc ccuuauuguu auacga 26

<210> 1065
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<220>
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uauaucagcc ccuuauuguu auacga 26

<210> 1068
<211> 26
<212> DNA
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<211> 26
<212> DNA
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<220>
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<212> DNA
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<210> 1074
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<220>
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<220>
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<223> /mod_base = "3' end (C11-PEG3-NAG3) modification"

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

<220>
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<222> 6,7
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<220>
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<223> /mod_base = "3' end (C11-PEG3-NAG3) modification"

<400>
uauauaguua ucgaggcuca uucuca 26

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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 = "2'-hydroxy nucleoside"

<220>
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uauauaguua ucgaggcuca uucuca 26

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

<220>
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<222> 1,3,5,6,7,8,9,10,11,12,13,14,17,18,19,20,21,22,23,24,25,26
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<220>
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<222> 2,4
<223> /mod_base = "2'-hydroxy nucleoside"

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

<220>
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uauauaguua ucgaggcuca uucuca 26

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<212> DNA
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<220>
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<222> 1,3,5,7,9,11,13,17,19,21,23,25
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<220>
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<223> /mod_base = "inverted nucleoside"

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

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<220>
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<400>
uauauaguua ucgaggcuca uucuca 26

<210> 1085
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<212> DNA
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<220>
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<223> /mod_base = "phosphorothioate linked nucleoside"

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<223> /mod_base = "3' end (NAG13) modification"

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ccccuuauug uuauaca 17

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<211> 17
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<213> artificial sequence

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<220>
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<222> 2,4,6,8,10,12,14,16,17
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<220>
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<223> /mod_base = "3' end (NAG13) modification"

<400>
cccuuauugu uauacga 17

<210> 1087
<211> 17
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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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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<223> /mod_base = "3' end (NAG13) modification"

<400>
agaugcugag auucgca 17

<210> 1088
<211> 17

<212> DNA
<213> artificial sequence

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

<220>
<221> modified_base
<222> 2,4,6,8,10,12,14,16,17
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>
guuaucgagg cucauua 17

<210> 1089
<211> 17
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

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

<220>
<221> modified_base
<222> 2,4,6,8,10,12,14,16,17
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>
aucgaggcuc auucuca 17

<210> 1090
<211> 17
<212> DNA
<213> artificial sequence

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

<220>
<221> modified_base
<222> 2,4,6,8,10,12,14,16,17
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<223> /mod_base = "3' end (NAG13) modification"

<400>
aacagaauca gguguca 17

<210> 1091
<211> 26

<212> DNA
<213> artificial sequence

<220>
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<222> 15,16
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<220>
<221> modified_base
<222> 1,3,5,6,7,8,9,10,11,12,13,14,17,18,19,20,21,22,23,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<220>
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<222> 26
<223> /mod_base = "3' end (NAG13) modification"

<400>
uauauaguua ucgaggcuca uucuca 26

<210> 1092
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

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

<220>
<221> modified_base
<222> 1,3,5,7,9,11,13,17,19,21,23,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<220>
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<222> 26
<223> /mod_base = "3' end (NAG13) modification"

<400>
uauaucagcc ccuuauuguu auacga 26

<210> 1093
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 12,14,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,6,7,8,9,10,11,13,15,17,18,19,20,21,22,23,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

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

<220>

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

<220>
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<223> /mod_base = "3' end (NAG13) modification"

<400>
uauaucagcc ccuuauuguu auacga 26

<210> 1094
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 15,16,18
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<220>
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<222> 1,3,5,6,7,8,9,10,11,12,13,14,17,19,20,21,22,23,24,25,26
<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<220>
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<223> /mod_base = "3' end (NAG13) modification"

<400>
uauaucagcc ccuuauuguu auacga 26

<210> 1095
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

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

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

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

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

<220>
<221> modified_base
<222> 26
<223> /mod_base = "3' end (NAG13) modification"

<400>
uauaucagcc ccuuauuguu auacga 26

<210> 1096
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>

<221> modified_base
<222> 6,8,10,12,14,15,16,18,20,22,24,26
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

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

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

<220>
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<222> 26
<223> /mod_base = "3' end (C-SS-Alk-Me) modification"

<400>
uauauaguua ucgaggcuca uucuca 26

<210> 1097
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 14,15,16
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<220>
<221> modified_base
<222> 1,3,5,6,7,8,9,10,11,12,13,17,18,19,20,21,22,23,24,25,26
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<220>
<221> modified_base

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

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

<220>
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<223> /mod_base = "3' end (NAG13) modification"

<400>
uauauaguua ucgaggcuca uucuca 26

<210> 1098
<211> 26
<212> DNA
<213> artificial sequence

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

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

<220>
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<222> 26

<223> /mod_base = "3' end (NAG13) modification"

<400>
uauaucagcc ccuuauuguu auacga 26

<210> 1099
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 14,15,16
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<220>
<221> modified_base
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<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<220>
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<223> /mod_base = "3' end (NAG13) modification"

<400>
uauaucagcg ccuuauuguu auacga 26

<210> 1100
<211> 26
<212> DNA
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<220>
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<220>
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<220>
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<220>
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<223> /mod_base = "2'-hydroxy nucleoside"

<220>
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<222> 6,7
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<400>
uauaucagcc ccuuauuguu auacga   26

<210> 1101
<211> 17
<212> DNA
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<220>
<223> LPA RNAi agent sense strand

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

<220>
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<222> 2,3

<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
<221> modified_base
<222> 17
<223> /mod_base = "3' end (NAG13) modification"

<400>
ccccuuauug uuauaca 17

<210> 1102
<211> 17
<212> DNA
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<220>
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<220>
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<222> 1,2,3,4,8,9,10,11,12,13,14,15
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
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<222> 16,17
<223> /mod_base = "2'-MOE nucleoside"

<220>
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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<223> /mod_base = "3' end (NAG13) modification"

<400>
ccccuuauug uuauaca 17

<210> 1103
<211> 17
<212> DNA
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<220>
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<222> 5,6,7
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<220>
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<223> /mod_base = "2'-O-methyl nucleoside"

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

<220>
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<220>
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<400>
ccccuuauug uuauaca 17

<210> 1104
<211> 17
<212> DNA
<213> artificial sequence

<220>
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<222> 5,6,7

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

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

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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>
cccuuauugu uauacga 17

<210> 1105
<211> 17
<212> DNA
<213> artificial sequence

<220>
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<220>
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<222> 1,2,3,4,8,9,10,11,12,13,14,15
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
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<222> 16,17
<223> /mod_base = "2'-MOE nucleoside"

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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<223> /mod_base = "3' end (NAG13) modification"

<400>
cccuuauugu uauacga 17

<210> 1106
<211> 17
<212> DNA
<213> artificial sequence

<220>
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<220>
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<222> 3,4,8,9,10,11,12,13,14,15
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<223> /mod_base = "2'-MOE nucleoside"

<220>
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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>
cccuuauugu uauacga 17

<210> 1107

<211> 17
<212> DNA
<213> artificial sequence

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

<220>
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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>
aucgaggcuc auucuca 17

<210> 1108
<211> 17
<212> DNA
<213> artificial sequence

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

<220>
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<222> 16,17
<223> /mod_base = "2'-MOE nucleoside"

<220>
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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>
aucgaggcuc auucuca 17

<210> 1109
<211> 17
<212> DNA
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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> 1,2,16,17
<223> /mod_base = "2'-MOE nucleoside"

<220>
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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>
atcgaggcuc auucuca 17

<210> 1110
<211> 17
<212> DNA
<213> artificial sequence

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

<220>
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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<223> /mod_base = "3' end (NAG13) modification"

<400>
aacagaauca gguguca 17

<210> 1111
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<212> DNA
<213> artificial sequence

<220>
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<220>
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<222> 5,6,7
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

<220>
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<222> 16,17
<223> /mod_base = "2'-MOE nucleoside"

<220>
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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<222> 17
<223> /mod_base = "3' end (NAG13) modification"

<400>
aacagaauca gguguca 17

<210> 1112
<211> 17
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 5,6,7
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 3,4,8,9,10,11,12,13,14,15
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 1,2,16,17
<223> /mod_base = "2'-MOE nucleoside"

<220>
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<222> 2,3
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<222> 17
<223> /mod_base = "3' end (NAG13) modification"

<400>
aacagaauca gguguca 17

<210> 1113
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 14,15,16
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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>
<221> modified_base
<222> 6,7
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>

<221> modified_base
<222> 1
<223> /mod_base = "5' end (NAG18) modification"

<400>
uauauaguua ucgaggcuca uucuca 26

<210> 1114
<211> 26
<212> DNA
<213> artificial sequence

<220>
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<220>
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<222> 8,10,12,14,15,16,18,20,22,24
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

<220>
<221> modified_base
<222> 26
<223> /mod_base = "inverted 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 (NAG18) modification"

<400>
uauaucagcc ccuuauuguu auacga 26

<210> 1115
<211> 25
<212> DNA

<213> artificial sequence

<220>
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<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>
<221> modified_base
<222> 1,2,3,5,7,9,13,15,17,19,21,22,23,24
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 25
<223> /mod_base = "inverted nucleoside"

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

<220>
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<222> 1
<223> /mod_base = "5' end (NAG4) modification"

<400>
ucagccccuu auuguuauac gauun 25

<210> 1116
<211> 23
<212> DNA
<213> artificial sequence

<220>
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<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>

<221> modified_base
<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> 23
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 2,22
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
<221> modified_base
<222> 1
<223> /mod_base = "5' end (NAG4) modification"

<400>
ucagccccuu auuguuauac gan 23

<210> 1117
<211> 25
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 4,6,8,10,11,12,14,16,18,20
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,2,3,5,7,9,13,15,17,19,21,22,23,24
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 25
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base

<222> 2,24
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
<221> modified_base
<222> 1
<223> /mod_base = "5' end (NAG24) modification"

<400>
ucagccccuu auuguuauac gauun 25

<210> 1118
<211> 25
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 10,11,12
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,2,3,4,5,6,7,8,9,13,14,15,16,17,18,19,20,21,22,23,24
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 25
<223> /mod_base = "inverted nucleoside"

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

<220>
<221> modified_base
<222> 1
<223> /mod_base = "5' end (NAG4) modification"

<400>
uaguuaucga ggcucauucu cauun 25

<210> 1119
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 12,14,15,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

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

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

<220>
<221> modified_base
<222> 26
<223> /mod_base = "3' end (NAG13) modification"

<400>
uauaucagcc ccuuauuguu auacga 26

<210> 1120
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base

<222> 12,14,15,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

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

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

<220>
<221> modified_base
<222> 26
<223> /mod_base = "3' end (NAG13) modification"

<400>
uauauaguua ucgaggcuca uucuca 26

<210> 1121
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 8,10,12,14,15,16,18,20,22,24
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

<220>
<221> modified_base
<222> 6,26

<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
<221> modified_base
<222> 1
<223> /mod_base = "5' end (NAG4) modification"

<400>
uauaucagcc ccuuauuguu auacga 26

<210> 1122
<211> 23
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 2,4,6,8,9,10,12,14,16,18
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,11,13,15,17,19,20,21,22
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 23
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 22
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
<221> modified_base
<222> 1
<223> /mod_base = "5' end (NAG4) modification"

<400>
ngccccuuau uguuauacga uun 23

<210> 1123
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 14,15,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<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>
<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>
uauauaguua ucgaggcuca uucuca 26

<210> 1124
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 14,15,16

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

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

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

<220>
<221> modified_base
<222> 25
<223> /mod_base = "2'-MOE 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 (Alk-PEG5-C6) modification"

<400>
uauauaguua ucgaggcuca uucuca 26

<210> 1125
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 14,15,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

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

<220>
<221> modified_base
<222> 25
<223> /mod_base = "2'-MOE 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 (Alk-SMPT-C6) modification"

<400>
uauauaguua ucgaggcuca uucuca 26

<210> 1126
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 14,15,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

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

<220>
<221> modified_base
<222> 25
<223> /mod_base = "2'-MOE 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 (NAG26) modification"

<400>
uauauaguua ucgaggcuca uucuca 26

<210> 1127
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 14,15,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

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

<220>
<221> modified_base
<222> 25
<223> /mod_base = "2'-MOE 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 (NAG27) modification"

<400>
uauauaguua ucgaggcuca uucuca 26

<210> 1128
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 13,14,15
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,2,3,4,5,6,7,8,9,10,11,12,16,17,18,19,20,21,22,23,24,25
<223> /mod_base = "2'-O-methyl nucleoside"

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

<220>
<221> modified_base
<222> 5,6
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
auaucagccc cuuauuguua uacgat 26

<210> 1129
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 12,13,14
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,2,3,4,5,6,7,8,9,10,11,15,16,17,18,19,20,21,22,23,24,25
<223> /mod_base = "2'-O-methyl nucleoside"

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

<220>
<221> modified_base
<222> 4,5
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
uaucagcccc uuauuguuau acgaut 26

<210> 1130
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>

<221> modified_base
<222> 13,14,15
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,2,3,4,5,6,7,8,9,10,11,12,16,17,18,19,20,21,22,23,24,25
<223> /mod_base = "2'-O-methyl nucleoside"

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

<220>
<221> modified_base
<222> 5,6
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
auauaguuau cgaggcucau ucucat 26

<210> 1131
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 12,13,14
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,2,3,4,5,6,7,8,9,10,11,15,16,17,18,19,20,21,22,23,24,25
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base

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

<220>
<221> modified_base
<222> 4,5
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
uauaguuauc gaggcucauu cucaut 26

<210> 1132
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

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

<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>
<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>
uauaucagcc ccuuauuguu auacga 26

<210> 1133
<211> 23
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 8,9,10
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

<220>
<221> modified_base
<222> 1,23
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 23
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
ngccccuuau uguuauacga uun 23

<210> 1134
<211> 23
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 8,9,10
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

<220>
<221> modified_base
<222> 1,23
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 22
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
nuuaucgagg cucauucuca uun 23

<210> 1135
<211> 23
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 2,4,6,8,9,10,12,14,16,18
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 3,5,7,11,13,15,17,19,20,21,22

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

<220>
<221> modified_base
<222> 1,23
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 22
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
ngccccuuau uguuauacga uun 23

<210> 1136
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 14,15,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

<220>
<221> modified_base
<222> 1
<223> /mod_base = "5' end (NAG29) modification"

<400>
uauauaguua ucgaggcuca uucuca 26

<210> 1137
<211> 23
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 2,4,6,8,9,10,12,14,16,18
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 3,5,7,11,13,15,17,19,20,21,22
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 1,23
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 22
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
<221> modified_base
<222> 1
<223> /mod_base = "5' end (NAG28) modification"

<400>
ngccccuuau uguuauacga uun 23

<210> 1138

<211> 27
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 15,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,2,3,4,5,6,7,8,9,10,11,12,13,14,17,18,19,20,21,22,23,24,
25,26
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 27
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 8,26
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
<221> modified_base
<222> 1
<223> /mod_base = "5' end (NAG29) modification"

<400>
uauauaauua ucgaggcuca uucucan 27

<210> 1139
<211> 23
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 2,4,6,8,9,10,12,14,16,18

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

<220>
<221> modified_base
<222> 3,5,7,11,13,15,17,19,20,21,22
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 1,23
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 22
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
ngccccuuau uguuauacga uun 23

<210> 1140
<211> 27
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 15,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,2,3,4,5,6,7,8,9,10,11,12,13,14,17,18,19,20,21,22,23,24,
25,26
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 27

<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 8,26
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
uauauaauua ucgaggcuca uucucan 27

<210> 1141
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 14,15,16
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

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

<400>
uauaucagcc ccuuauuguu auacga 26

<210> 1142
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 14,15,16
<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> 8
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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uauaucagcc ccuuauuguu auacga 26

<210> 1143
<211> 26
<212> DNA
<213> artificial sequence

<220>

<223> LPA RNAi agent sense strand

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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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<222> 1
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uauauaguua ucgaggcuca uucuca   26

<210> 1144
<211> 26
<212> DNA
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<220>
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<220>
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<223> /mod_base = "inverted nucleoside"

<220>
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<400>
uauauaguua ucgaggcuca uucuca 26

<210> 1145
<211> 23
<212> DNA
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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> 23
<223> /mod_base = "inverted nucleoside"

<220>
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<222> 2,22
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<220>
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<400>
ucagccccuu auuguuauac gan 23

<210> 1146
<211> 25
<212> DNA
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<220>
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<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
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<220>
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<222> 1
<223> /mod_base = "5' end (NAG25) modification"

<400>

ggcagccccu uauuguuaua cgatt 25

<210> 1147
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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"

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

<220>
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<222> 4,24
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ggcagccccu uauuguuaua cgauut 26

<210> 1148
<211> 25
<212> DNA

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

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ggcagccccu uauuguuaua cgatt 25

<210> 1149
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<220>
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<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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<220>
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<222> 9,10,11
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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 = "2'-MOE nucleoside"

<220>
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<400>
cagccccuua uuguuauacg atttt 25

<210> 1151
<211> 23
<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 = "inverted nucleoside"

<220>
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<211> 23
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<220>
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<223> /mod_base = "inverted nucleoside"

<220>
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<212> DNA
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<220>
<221> modified_base
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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
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uauauaguua ucgaggcuca uucuca 26

<210> 1154

<211> 26
<212> DNA
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<220>
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<223> /mod_base = "inverted nucleoside"

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uauauaguua ucgaggcuca uucuca 26

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<220>
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<220>
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ugaauaguua ucgaggcuca uucuca 26

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

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aucguaguua ucgaggcuca uucuca 26

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<220>
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<220>
<221> modified_base
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uauauaguua ucgaggcuca uucuca 26

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<220>
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<220>
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uauaaaguua ucgaggcuca uucuca 26

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<220>
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<220>
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uauauaguua ucgaggcuca uucuca   26

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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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<223> /mod_base = "inverted nucleoside"

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

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agccccuuau uguuauacga n 21

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<211> 22
<212> DNA
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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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<222> 21
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>
aagccccuua uuguuauacg an 22

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

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

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

<220>
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agccccuuau uguuauacga n   21

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<211> 23
<212> DNA
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<220>
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<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> 23
<223> /mod_base = "inverted nucleoside"

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

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

<400>
gcagccccuu auuguuauac gan   23

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<211> 27
<212> DNA
<213> artificial sequence

<220>
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<220>
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       25,26
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<220>
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<223> /mod_base = "inverted nucleoside"

<220>
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<222> 8,26
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<223> /mod_base = "5' end (NAG25) modification"

<400>
uauauaguua ucgaggcuca uucucan 27

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<212> DNA
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<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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<222> 23
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 1,2,22
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<220>
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<222> 1
<223> /mod_base = "5' end (NAG30) modification"

<400>
gcagccccuu auuguuauac gan 23

<210> 1167
<211> 23
<212> DNA
<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>
<221> modified_base
<222> 1,23
<223> /mod_base = "inverted nucleoside"

<220>
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<222> 22
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<220>
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ngccccuuau uguuauacga uun 23

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<211> 23
<212> DNA
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<220>
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<222> 2,4,6,8,9,10,12,14,16,18
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<220>
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<222> 1,23
<223> /mod_base = "inverted 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> 22
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<223> /mod_base = "inverted nucleoside"

<220>
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acgccccuua uuguuauacg an 22

<210> 1171
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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 = "2'-O-methyl nucleoside"

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

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<220>
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gcagccccuu auuguuauac gan   23

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

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<211> 22

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<222> 1,2,22
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aagccccuua uuguuauacg an 22

<210> 1177
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<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

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

<220>
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aagccccuua uuguuauacg auun 24

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<221> modified_base
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<212> DNA
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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"

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<220>
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<220>
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<400>
uaucagcccc uuauuguuau acga 24

<210> 1181
<211> 24
<212> DNA
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<220>
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<220>

<221> modified_base
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uagcagcccc uuauuguuau acga   24

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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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<211> 22
<212> DNA
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<220>
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<220>
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<220>
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gcagccccuu auuguuauac ga 22

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<212> DNA
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<220>
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<220>
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<400>
gcagccccuu auuguuauac gan 23

<210> 1185
<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
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<223> /mod_base = "inverted nucleoside"

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<220>
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<400>
auaagaguua ucgaggcuca uucuca 26

<210> 1186
<211> 26
<212> DNA
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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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<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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auaagaguua ucgaggcuca uucuca 26

<210> 1187
<211> 26
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<220>
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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"

<220>
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<220>
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auaggcagcc ccuuauuguu auacga 26

<210> 1188
<211> 26
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<222> 14,15,16
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<220>
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<220>
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<222> 26
<223> /mod_base = "inverted nucleoside"

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

<220>
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auaggcagcc ccuuauuguu auacga 26

<210> 1189
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<212> DNA
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<220>
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<222> 9,10,11
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<220>
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<223> /mod_base = "2'-O-methyl nucleoside"

<220>
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<222> 1,2,21

<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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cagccccuua uuguuauacg a 21

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<212> DNA
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<220>
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<220>
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<220>
<221> modified_base
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<400>
cagccccuua uuguuauacg a 21

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

<220>
<221> modified_base
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<400>
gccccuuauu guuauacgau un   22

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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>
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<223> /mod_base = "inverted nucleoside"

<220>
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<222> 1,2,22
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<400>
gccccuuauu guuauacgau un 22

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<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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<223> /mod_base = "inverted nucleoside"

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gccccuuauu guuauacgau un 22

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

<220>
<221> modified_base
<222> 1,2,22
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<400>
gccccuuauu guuauacgau un 22

<210> 1195

<211> 26
<212> DNA
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<220>
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<220>
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<220>
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<222> 26
<223> /mod_base = "inverted nucleoside"

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

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<223> /mod_base = "NOTA nucleoside"

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uauaucagcc cctuauuguu auacga 26

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<211> 23
<212> DNA
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<220>
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<220>
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<220>
<221> modified_base
<222> 1,23
<223> /mod_base = "inverted nucleoside"

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

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

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

<400>
uauaucagaa acagaaucag guguca 26

<210> 1228
<211> 26
<212> DNA
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<220>
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<220>
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<222> 6,8,10,12,14,16,18,22,26
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,11,13,15,17,19,20,21,23,24,25
<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<400>

uauaucagaa acagaaucag guguca 26

<210> 1229
<211> 26
<212> DNA
<213> artificial sequence

<220>
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<220>
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<222> 6,8,10,12,15,16,18,24,26
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,11,13,14,17,19,20,21,22,23,25
<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<400>
uauaucagaa acagaaucag guguca 26

<210> 1230
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 6,8,10,12,16,18,22,24,26
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,11,13,14,15,17,19,20,21,23,25
<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<400>
uauaucagaa acagaaucag guguca 26

<210> 1231
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 6,8,10,12,16,18,20,24,26
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,11,13,14,15,17,19,21,22,23,25
<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<400>

uauaucagaa acagaaucag guguca 26

<210> 1232
<211> 26
<212> DNA
<213> artificial sequence

<220>
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<220>
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<222> 6,8,12,15,16,18,20,22,24,26
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,10,11,13,14,17,19,21,23,25
<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<400>
uauaucagaa acagaaucag guguca 26

<210> 1233
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 6,8,12,14,16,18,20,22,24,26
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

<220>
<221> modified_base
<222> 1,3,5,7,9,10,11,13,15,17,19,21,23,25
<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<400>
uauaucagaa acagaaucag guguca 26

<210> 1234
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 6,8,10,12,16,18,20,22,24,26
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

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

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

<400>

uauaucagaa acagaaucag guguca 26

<210> 1235
<211> 26
<212> DNA
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<220>
<223> LPA RNAi agent sense strand

<220>
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<222> 6,8,12,16,18,20,22,24,26
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

<400>
uauaucagaa acagaaucag guguca 26

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

<220>
<223> LPA RNAi agent sense strand

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

<400>
uauaucagaa acagaaucag guguca 26

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

<220>
<223> LPA RNAi agent sense strand

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

<220>
<221> modified_base
<222> 1,3,5,7,8,9,10,11,13,14,17,19,21,23,25
<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<400>

uauaucagaa acagaaucag guguca 26

<210> 1238
<211> 26
<212> DNA
<213> artificial sequence

<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>
<221> modified_base
<222> 1,3,5,7,8,9,10,11,13,15,17,19,21,23,25
<223> /mod_base = "2'-O-methyl nucleoside"

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

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

<400>
uauaucagaa acagaaucag guguca 26

<210> 1239
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

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

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

<400>
uauaucagaa acagaaucag guguca 26

<210> 1240
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

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

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

<400>

uauaucagaa acagaaucag guguca 26

<210> 1241
<211> 23
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<222> 1,23
<223> /mod_base = "abasic nucleoside"

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

<400>
ngcccctuau uguuauacga uun 23

<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>
tcguauaaca auaaggggc 19

<210> 1243
<211> 19
<212> RNA
<213> artificial sequence

<220>

<223> LPA RNAi agent sense strand

<400>
gccccuuauu guuauacga 19

<210> 1244
<211> 18
<212> RNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<400>
ucguauaaca auaagggg 18

<210> 1245
<211> 18
<212> RNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<400>
ccccuuauug uuauacga 18

<210> 1246
<211> 17
<212> RNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<400>
ucguauaaca auaaggg 17

<210> 1247
<211> 17
<212> RNA
<213> artificial sequence

<220>

<223> LPA RNAi agent sense strand

<400>
cccuuauugu uauacga 17

<210> 1248
<211> 19
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

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

<400>
tgagaaugag ccucgauaa 19

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

<400>
uuaucgaggc ucauucuca 19

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

<220>
<223> LPA RNAi agent antisense strand

<400>
ugagaaugag ccucgaua 18

<210> 1251

<211> 18
<212> RNA
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<220>
<223> LPA RNAi agent sense strand

<400>
uaucgaggcu cauucuca 18

<210> 1252
<211> 17
<212> RNA
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<220>
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<400>
ugagaaugag ccucgau 17

<210> 1253
<211> 17
<212> RNA
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<220>
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<400>
aucgaggcuc auucuca 17

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

<220>
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<400>
uguauaacaa uaagggg 17

<210> 1255

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

<220>
<223> LPA RNAi agent sense strand

<400>
ccccuuauug uuauaca 17

<210> 1256
<211> 23
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense 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> 3,5,7,11,13,15,17,19,20,21,22
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 1,23
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 22
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
ngccccuuau uguuauacga uun 23

<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>
cagccccuua uuguuauacg a 21

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

<220>
<223> LPA RNAi agent sense strand

<400>
uuaucgaggc ucauucuca 19

<210> 1259
<211> 19
<212> RNA
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<220>
<223> LPA RNAi agent sense strand

<400>
gccccuuauu guuauacga   19

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

<220>
<223> LPA RNAi agent sense strand

<400>
acagccccuu auuguuauac ga   22

<210> 1261
<211> 22
<212> RNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<400>
aaagccccuu auuguuauac ga   22

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

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<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>
ugagaaugag ccucgauaau u 21

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

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<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>
tcguauaaca auaaggggcu u 21

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

<220>
<223> LPA RNAi agent antisense strand

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

<400>
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>
ucguauaaca auaaggggcu gccuau 26

<210> 1266
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<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>
ucguauaaca auaaggggcu gccuau 26

<210> 1267
<211> 21
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<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>
ucguauaaca auaaggggcu u 21

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

<220>
<223> LPA RNAi agent antisense strand

<220>
<221> modified_base
<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>
ucguauaaca auaaggggcu u 21

<210> 1269
<211> 24
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<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> 27
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 6,7,27
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
uauauaguua ucgaggcuca uucucan 27

<210> 1270
<211> 21
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

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

<220>
<221> modified_base
<222> 1,21
<223> /mod_base = "inverted nucleoside"

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

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

<400>
nuuaucgagg cucauucuca n 21

<210> 1271
<211> 21
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<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
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 1,21
<223> /mod_base = "inverted nucleoside"

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

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

<400>
ngccccuuau uguuauacga n 21

<210> 1272
<211> 23
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<220>
<221> modified_base
<223> 8,9,10
<223> /mod_base = "2'-deoxy-2'-fluoro nucleoside"

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

<220>
<221> modified_base
<222> 1,23
<223> /mod_base = "inverted nucleoside"

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

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

<400>
ngccccuuau uguuauacga uun   23

<210> 1273
<211> 27
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

<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>
<221> modified_base
<222> 27
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 6,7,27
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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<223> /mod_base = "5' end (NAG25) modification"

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uauaucagcc ccuuauuguu auacgan 27

<210> 1274
<211> 21
<212> DNA
<213> artificial sequence

<220>
<223> LPA RNAi agent sense strand

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

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

<220>
<221> modified_base
<222> 1,21
<223> /mod_base = "inverted nucleoside"

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

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

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ngccccuuau uguuauacga n 21

<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>
aagccccuua uuguuauacg a 21

<210> 1276
<211> 22
<212> DNA
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<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> 22
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 1,2,22
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
cagccccuua uuguuauacg an 22

<210> 1277
<211> 20
<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
<223> /mod_base = "2'-O-methyl nucleoside"

<220>
<221> modified_base
<222> 20
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 1,2,20
<223> /mod_base = "phosphorothioate linked nucleoside"

<220>
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gccccuuauu guuauacgan 20

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

<220>
<221> modified_base
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<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"

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gccccuuauu guuauacga 19

<210> 1279
<211> 22
<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> 22
<223> /mod_base = "inverted nucleoside"

<220>
<221> modified_base
<222> 1,2,22
<223> /mod_base = "phosphorothioate linked nucleoside"

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

<400>
aagccccuua uuguuauacg an 22

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

<220>
<223> LPA RNAi agent antisense strand

<400>
cguauaacaa uaaggggc 18

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

<220>
<223> LPA RNAi agent antisense strand

<400>
gagaaugagc cucgauaa 18

<210> 1282
<211> 19
<212> RNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<400>
ucguauaaca auaaggggc 19

<210> 1283
<211> 19
<212> RNA
<213> artificial sequence

<220>
<223> LPA RNAi agent antisense strand

<400>
ugagaaugag ccucgauaa 19

<210> 1284
<211> 18
<212> RNA
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<220>
<223> LPA RNAi agent ense strand

<400>
gccccuuauu guuauacg 18

<210> 1285
<211> 18
<212> RNA
<213> artificial sequence

<220>
<223> LPA RNAi agent ense strand

<400>
uuaucgaggc ucauucuc 18