CLAIMS

1. A polynucleotide comprising a nucleotide sequence selected from the group consisting of SEQ ID NO:73, SEQ ID NO:134, SEQ ID NO:143 and SEQ ID NO:144, wherein the polynucleotide is less than 100 bases or base pairs in length.

2. The polynucleotide of Claim 1, wherein the polynucleotide consists of the nucleotide sequence selected from the group consisting of SEQ ID NO:73, SEQ ID NO:134, SEQ ID NO:143 and SEQ ID NO:144.

3. The polynucleotide of Claim 1, wherein the polynucleotide does not comprise a CG.

4. The polynucleotide of Claim 1 or Claim 3, wherein the polynucleotide is less than 50 bases or base pairs in length.

5. The polynucleotide of any one of Claims 1-4, wherein one or more nucleotides comprises a modification.

6. The polynucleotide of Claim 5, wherein the modification comprises at least one phosphorothioate backbone modification.

7. The polynucleotide of Claim 5 or Claim 6, wherein the modification comprises a 2'-sugar modification.

8. The polynucleotide of Claim 6, wherein the polynucleotide consists of the nucleotide sequence of SEQ ID NO:73.

9. The polynucleotide of Claim 6, wherein the polynucleotide consists of the nucleotide sequence of SEQ ID NO:134.

10. The polynucleotide of Claim 6, wherein the polynucleotide consists of the nucleotide sequence of SEQ ID NO:143.

11. The polynucleotide of Claim 6, wherein the polynucleotide consists of the nucleotide sequence of SEQ ID NO:144.

12.~~8.~~ The polynucleotide of any one of Claims 1-11 ~~Claims 1-7~~, for use in treating an autoimmune disease in an individual.

13.~~9.~~ A polynucleotide for use in treating an autoimmune disease in an individual, wherein an elevated inflammatory gene expression pattern as compared to that of control sample(s) from healthy subject(s) is present in a sample from the individual at the onset of treatment, and wherein the polynucleotide comprises a nucleotide sequence selected from the group consisting of SEQ ID NO:73, SEQ ID NO:134, SEQ ID NO:143 and SEQ ID NO:144, wherein the polynucleotide is less than 100 bases or base pairs in length ~~of the formula: RγJGCKαGIGGLβ-3' (SEQ ID NO:146), wherein each R, K, and L is a nucleotide, J is U or T, γ is an integer from 0 to 10, α is an integer from 1 to 20, and β is an integer from 1 to 20~~.

14.~~10.~~ The polynucleotide for use according to Claim 12 or Claim 13 ~~Claim 9~~, wherein treating the autoimmune disease achieves one or more of the following outcomes:

a.) reduces the inflammatory gene expression pattern in a post-treatment sample from the individual;

b.) reduces a clinical disease activity measure of the autoimmune disease;

c.) reduces a serologic disease measure of the autoimmune disease;

d.) increases plasmacytoid dendritic cells in a post-treatment peripheral blood mononuclear cell sample from the individual; and

e) reduces concurrent corticosteroid use by the individual.

~~11.The polynucleotide for use according to Claim 9 or Claim 10, wherein the polynucleotide comprises or consists of a nucleotide sequence selected from the group consisting of SEQ ID NOS:64, 65, 66, 70, 71, 72, 73, 74, 75, 77, 78, 79, 123, 124, 125, 126, 127, 128, 129, 130, 132, 133, 134, 135, 142, 143, 144 and 145.~~

~~12. The polynucleotide for use according to Claim 9 or Claim 10, wherein the polynucleotide comprises or consists of a nucleotide sequence selected from the group consisting of SEQ ID NO:73, SEQ ID NO:134, SEQ ID NO:143, and SEQ ID NO:144.~~

15.~~13.~~ The polynucleotide for use according to any one of Claims 12-14 ~~Claims 9-12~~, wherein the individual is a human patient.

16.~~14.~~ The polynucleotide for use according to any one of Claims 12-15 ~~Claims 9-13~~, wherein the autoimmune disease is systemic lupus erythematosus (SLE) or cutaneous lupus erythematosus (CLE).

17.~~15.~~ The polynucleotide for use according to any one of Claims 13-16 ~~Claims 9-14~~, wherein the elevated inflammatory gene expression pattern comprises an interferon (IFN) signature comprising elevated levels in the sample of one or more biomarkers selected from the group consisting of BATF2, CMPK2, DDX60, EPSTI1, HERC5, HES4, IFI44, IFI44L, IFIT1, IFIT3, IFITM3, ISG15, LAMP3, LOC26010, MX1, OAS1, OAS2, OAS3, OASL, OTOF, RSAD2, RTP4, SERPING1, TRIM6, XAF1, cl02h05 5, Agencourt-7914287 NIH-MCG_71, ISG20, IRF7, and AIM2, as compared to the control sample(s).

18.~~16.~~ The polynucleotide for use according any one of Claims 13-17 ~~Claims 9-14~~, wherein the elevated inflammatory gene expression pattern comprises elevated levels in the sample of one or more cytokines selected from the group consisting of IL-1 alpha, IL-1 beta, TNF-alpha, IL-6, IL-17, IFN-alpha, IFN-omega, IFN-lambda1, IFN-lambda2, and IP-10, as compared to the control sample(s).

19. A pharmaceutical composition comprising the polynucleotide of any one of Claims 1-11 and a pharmaceutically acceptable excipient.

20. The pharmaceutical composition of Claim 19 comprising a sterile, isotonic solution.

SEQUENCE LISTING

<110> DYNANVAX TECHNOLOGIES CORPORATION
BARRAT, Franck
COFFMAN, Robert L.
GUIDUCCI, Cristina

<120> METHODS OF TREATMENT USING TLR7 AND/OR TLR9 INHIBITORS

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<220>
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<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<400> 87
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<210> 88
<211> 22
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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<222> 22
<223> n = U modified with a 2'-O-methyl sugar modification

<400> 88

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<210> 89
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<222> 21
<223> n = U modified with a 2'-O-methyl sugar modification

<400> 89
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<210> 90
<211> 25
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<400> 90
nnnttgtcct ggaggggaag tnnnn 25

<210> 91
<211> 24
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<213> Artificial Sequence

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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<400> 91
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<210> 92
<211> 23
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<400> 92
nnngtcctgg aggggaagtn nnn 23

<210> 93
<211> 23
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<220>
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<400> 93

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<210> 94
<211> 22
<212> DNA
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<220>
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<222> 22
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<400> 94
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<210> 95
<211> 21
<212> DNA
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<220>
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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

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<400> 95
nnngtcctgg aggggtgnnn n 21

<210> 96
<211> 21
<212> DNA
<213> Artificial Sequence

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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<222> 3
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<220>
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<220>
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<223> n = U modified with a 2'-O-methyl sugar modification

<400> 96
nnnttgtcct ggaggggtnn n 21

<210> 97
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<222> 20
<223> n = U modified with a 2'-O-methyl sugar modification

<400> 97
nnntgtcctg gaggggtnnn 20

<210> 98
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
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<223> n = U modified with a 2'-O-methyl sugar modification

<400> 98
nnngtcctgg aggggtnnn 19

<210> 99
<211> 25
<212> DNA
<213> Artificial Sequence

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<400> 99
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<210> 100
<211> 25
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<222> 3
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<220>

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<220>
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<400> 100
nnnttgtcct ggaggggttn nnnnn 25

<210> 101
<211> 25
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<213> Artificial Sequence

<220>
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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<400> 101
nnntgctcct ggaggggttg tnnnn 25

<210> 102
<211> 25
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<220>

<223> Synthetic Construct

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<220>
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<220>
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<222> 25
<223> n = U modified with a 2'-O-methyl sugar modification

<400> 102
nnntgctcct tgaggggttg tnnnn 25

<210> 103
<211> 23
<212> DNA
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<220>
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<220>
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<222> 23
<223> n = U modified with a 2'-O-methyl sugar modification

<400> 103
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<210> 104
<211> 25
<212> DNA
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<220>
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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

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<223> n = G modified with a 2'-O-methyl sugar modification

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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<222> 25
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<400> 104
nnntgctcct tgaggggttn nnnnn 25

<210> 105
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (1)...(21)
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modification

<400> 105
ugcugcuccu ugagagguug u 21

<210> 106
<211> 25
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<213> Artificial Sequence

<220>
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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<222> 20
<223> n = G modified with a 2'-O-methyl sugar modification

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<222> (21)...(23)
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 24
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 25
<223> n = U modified with a 2'-O-methyl sugar modification

<400> 106
nnntgctcct ggaggggttn nnnnn 25

<210> 107
<211> 25
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

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<220>
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<220>

<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<400> 107
nnntgctcct tgaggggttg tttgt 25

<210> 108
<211> 25
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<213> Artificial Sequence

<220>
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<220>
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<220>
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<400> 108
nnntgctcct ggaggggttg tttgt 25

<210> 109
<211> 25
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<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 109
nnntgctcct tgagnggttg tttgt 25

<210> 110
<211> 25
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = 7-deaza-dG

<400> 110
nnntgctcct tgagnggttg tttgt 25

<210> 111
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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<220>
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<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 111
nnntgctcct tgagnggttg tttg 24

<210> 112
<211> 23
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<220>
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<220>
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<220>
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<222> 3
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
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<400> 112
nnntgctcct tgagnggttg ttt 23

<210> 113
<211> 22
<212> DNA
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<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
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<222> 15
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<400> 113
nnntgctcct tgagnggttg tt 22

<210> 114
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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
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<222> 15
<223> n = deoxy-inosine

<400> 114
nnntgctcct tgagnggttg t 21

<210> 115
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 115
nnntgctcct tgagnggtt 19

<210> 116
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 116
nnntgctcct tgagnggt 18

<210> 117
<211> 17
<212> DNA
<213> Artificial Sequence

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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
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<222> 15
<223> n = deoxy-inosine

<400> 117
nnntgctcct tgagngg 17

<210> 118
<211> 16
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<220>
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<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 118
nnntgctcct tgagng 16

<210> 119
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<223> n = G modified with a 2'-O-methyl sugar modification

<220>
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<223> n = C modified with a 2'-O-methyl sugar modification

<220>
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<400> 119
nnntgctcct tgagn 15

<210> 120
<211> 24
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<220>
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<400> 120
nntgctcctt gagnggttgt ttgt 24

<210> 121
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 13
<223> n = deoxy-inosine

<400> 121
ntgctccttg agnggttgtt tgt 23

<210> 122
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 122
nnntgctcct tgagnggttg 20

<210> 123
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>

<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 123
nnnttgtcct ggagnggttg t 21

<210> 124
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 124
nnnttgtcct ggagnggtgt tgt 23

<210> 125
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 125
nnntgctcct ggagnggttg t 21

<210> 126
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 126
nnctgctcct tgagnggttg t 21

<210> 127
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 127
ngctgctcct tgagnggttg t 21

<210> 128
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature

<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 128
nnntgctcct tgagnggtgt tgt 23

<210> 129
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 129
nnntgctcct tgagnggttg taagt 25

<210> 130
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15

<223> n = deoxy-inosine

<400> 130
nnntgctcct ggagnggttg taagt 25

<210> 131
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> (15)...(16)
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 17
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 18
<223> n = U modified with a 2'-O-methyl sugar modification

<400> 131
nnntcctgga ggggnnnn 18

<210> 132
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 132
nnntgctcct ggagnggtgt tgt 23

<210> 133
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3,4
<223> Bases at positions 3 and 4 are linked by three diethyldithiodicarbonate moieties connected to each other and to the bases via phosphorothioate esters

<220>
<221> misc_feature
<222> 12
<223> n = deoxy-inosine

<400> 133
nnntcctgga gnggttgt 18

<210> 134
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3

<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 134
nnncaatcct ggagnggttg t 21

<210> 135
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 135
nnncaatcct ggagnggtgt tgt 23

<210> 136
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 20,21
<223> Bases at positions 20 and 21 are linked by a
hexa-(ethylene glycol) moiety

<400> 136
tgcttgcaag cttgcaagca tcctggaggg gttgt 35

<210> 137
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature

<222> 20,21
<223> Bases at positions 20 and 21 are linked by a hexa-(ethylene glycol) moiety

<400> 137
tgcttgcaag ctagcaagca tcctggaggg gttgt 35

<210> 138
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 20,21
<223> Bases at positions 20 and 21 are linked by a hexa-(ethylene glycol) moiety

<400> 138
tgcttgcaag cttgctagca tcctggaggg gttgt 35

<210> 139
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 20,21
<223> Bases at positions 20 and 21 are linked by a hexa-(ethylene glycol) moiety

<220>
<221> misc_feature
<222> 29
<223> n = 7-deaza-dG

<400> 139
tgcttgcaag cttgctagca tcctggagng gttgt 35

<210> 140
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15,16
<223> Bases at positions 15 and 16 are linked by a hexa-(ethylene glycol) moiety

<400> 140
tcctggaggg gttgttgctt gcaagcttgc aagca 35

<210> 141
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 18
<223> n = T is connected to two hexa-(ethylene glycol) moieties

<400> 141
tgctcctgga ggggttgn 18

<210> 142
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<220>
<221> misc_feature
<222> 20,21
<223> Bases at positions 20 and 21 are linked by a
hexa-(ethylene glycol) moiety

<400> 142
nnnttgtcct ggagnggttg t 21

<210> 143
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 12
<223> n = deoxy-inosine

<220>
<221> misc_feature
<222> 17,18
<223> Bases at positions 17 and 18 are linked by a
hexa-(ethylene glycol) moiety

<400> 143

tgctcctgga gnggttgt 18

<210> 144
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<220>
<221> misc_feature
<222> 20,21
<223> Bases at positions 20 and 21 are linked by a
hexa-(ethylene glycol) moiety

<400> 144
tgctgctcct ggagnggttg t 21

<210> 145
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 3,4
<223> Bases at positions 3 and 4 are linked by a
hexa-(ethylene glycol) moiety

<220>
<221> misc_feature
<222> 12
<223> n = deoxy-inosine

<400> 145
nnntcctgga gnggttgt 18

<210> 146
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(10)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> 11
<223> n = U or T,

<220>
<221> misc_feature
<222> 14
<223> n = any nucleotide

<220>
<221> misc_feature
<222> (15)...(33)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> (34)...(37)
<223> n = nucleotides are a 2'-deoxyribonucleotide

<220>
<221> misc_feature
<222> (35)...(35)
<223> n = deoxy-inosine

<220>
<221> misc_feature
<222> (38)...(38)
<223> n = any nucleotide

<220>
<221> misc_feature
<222> (39)...(57)
<223> n = any nucleotide or absent

<400> 146
nnnnnnnnnn ngcnnnnnnn nnnnnnnnnn nnngnggnnn nnnnnnnnnn nnnnnnn 57

<210> 147
<211> 113
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(10)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> 11
<223> n = u or t

<220>
<221> misc_feature
<222> 14
<223> n= any nucleotide

<220>

<221> misc_feature
<222> (15)...(113)
<223> n = any nucleotide or absent

<400> 147
nnnnnnnnnn ngcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnn 113

<210> 148
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(10)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> 11
<223> n = u or t

<220>
<221> misc_feature
<222> 14
<223> n = any nucleotide

<220>
<221> misc_feature
<222> (15)...(33)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> (34)...(37)
<223> n = g or a molecule that is capable of preventing
G-tetrad formation and/or preventing Hoogsteen
base pairing

<220>
<221> misc_feature
<222> (38)...(38)
<223> n = any nucleotide

<220>
<221> misc_feature
<222> (39)...(57)
<223> n = any nucleotide or absent

<400> 148
nnnnnnnnnn ngcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnn 57

<210> 149
<211> 7
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = any nucleotide

<220>
<221> misc_feature
<222> (2)...(5)
<223> n = G or a molecule that is capable of preventing G-tetrad formation and/or preventing Hoogsteen base pairing

<220>
<221> misc_feature
<222> (6)...(7)
<223> n = any nucleotide unless base 1 is C or A, if base 1 is C or A bases 6 and 7 are not AA

<400> 149
nnnnnnn 7

<210> 150
<211> 8
<212> DNA
<213> Artificial Sequence

<220>
<223> Syntehtic Construct 150

<220>
<221> misc_feature
<222> 1
<223> n = C or A

<220>
<221> misc_feature
<222> (2)...(5)
<223> n = G or a molecule that is capable of preventing G-tetrad formation and/or

<220>
<221> misc_feature
<222> 6
<223> n = any nucleotide

<220>
<221> misc_feature
<222> 7
<223> n = any nucleotide but not A if base 8 is A

<220>
<221> misc_feature
<222> 8
<223> n = any nucleotide by not A if base 7 is A

<400> 150
nnnnnnnn 8

<210> 151
<211> 1004
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = any nucleotide or absent

<220>

<221> misc_feature
<222> (501)...(504)
<223> n = G or a molecule that is capable of preventing G-tetrad formation and/or preventing Hoogsteen base pairing

<220>
<221> misc_feature
<222> (505)...(1004)
<223> n = any nucleotide or absent

<400> 151
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 960
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnn 1004

<210> 152
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(10)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> 11
<223> n = u or t

<220>
<221> misc_feature
<222> (14)...(23)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> (31)...(34)
<223> n = G, I, 7-deaza-dG or or a molecule that is capable of preventing G-tetrad formation and/or preventing Hoogsteen base pairing

<220>
<221> misc_feature
<222> (37)...(46)
<223> n = any nucleotide or absent

<400> 152
nnnnnnnnnn ngcnnnnnnn nnntcctgga nnnnttnnnn nnnnnn 46

<210> 153
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15,16
<223> Bases at positions 15 and 16 are linked by 15
propyl linkers connected via phosphorothioate esters

<400> 153
tcctggaggg gttgtt 16

<210> 154
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15,16
<223> Bases at positions 15 and 16 are linked by 15
glycerol linkers connected via phosphorothioate esters

<400> 154
tcctggaggg gttgtt 16

<210> 155
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15,16
<223> Bases at positions 15 and 16 are linked by 8
triethyleneglycol linkers connected via
phosphorothioate esters

<400> 155
tcctggaggg gttgtt 16

<210> 156
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15,16
<223> Bases at positions 15 and 16 are linked by 4
hexaethyleneglycol linkers connected via
phosphorothioate esters

<400> 156

tcctggaggg gttgtt 16

<210> 157
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 157
tgactgtgaa cgttcgagat ga 22

<210> 158
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 158
tcgtcgaacg ttcgagatga t 21

<210> 159
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(22)
<223> n = a, c, t, or g

<400> 159
nnnnnnnnnn nnnnnnnnnn nn 22

<210> 160
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 160
tcctgcaggt taagt 15

<210> 161
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 161
ctatctgacg ttctctgt 18

<210> 162
<211> 18
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 162
ctatctgucg ttctctgt 18

<210> 163
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 10
<223> n = 2'-deoxy-7-deazaguanosine

<400> 163
ctatctgacn ttctctgt 18

<210> 164
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 10
<223> n = 2'-deoxy-7-deazaguanosine

<400> 164
ctatctgucn ttctctgt 18

<210> 165
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 7
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 8
<223> n = A modified with a 2'-O-methyl sugar modification

<400> 165
ctatctnncg ttctctgt 18

<210> 166
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature

<222> 7
<223> n = G modified with a 2'-O-methyl sugar modification

<220>
<221> misc_feature
<222> 8
<223> n = U modified with a 2'-O-methyl sugar modification

<400> 166
ctatctnncg ttctctgt 18

<210> 167
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<220>
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<222> 8
<223> n = A modified with a 2'-O-methyl sugar modification

<220>
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<222> 10
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<400> 167
ctatctnncn ttctctgt 18

<210> 168
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<223> n = U modified with a 2'-O-methyl sugar modification

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<223> n = 7-deaza-dG

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nnncnttct 9

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<223> n = any nucleotide, a nucleotide derivator or non-nucleotdie linkage

<220>
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<223> n = a nucleotide derivative or non-nucleotide linkage modification that suppresses the activity of the oligonucleotide motif

<220>
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<222> 4
<223> n = a nucleotide, nucleotide derivator, or non-nucleotide linkage modification that suppresses the activity of the oligonucleotide motif

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<222> 5
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<222> 6
<223> n = g or purine nucleotide derivative

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<223> n = a nucleotide or nucleotide derivative

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<223> n = a nucleotide, nucleotide derivator, or non-nucleotide linkage

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nnnnnnnnnn 10

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<223> n = any nucleotide or absent

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<223> n = cytidine or a derivative thereof, wherein at least one is a cytidine derivative

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<223> n = any nucleotide or absent

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<223> n = any nueclotide

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<223> n = guanosine or a deaza derivative thereof

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<223> n = any nucleotide or absent

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BARRAT, Franck
COFFMAN, Robert L.
GUIDUCCI, Cristina

<120> METHODS OF TREATMENT USING TLR7 AND/OR TLR9 INHIBITORS

<130> 377882004742

<140> PCT/US2011/040788
<141> 2011-06-16

<150> US 61/355,547
<151> 2010-06-16

<150> US 61/415,289
<151> 2010-11-18

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<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 59
tgctgctcct tgaggggttg t 21

<210> 60
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 60
tgctgctcct ggaggggttg t 21

<210> 61
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = 7-deaza-dG

<400> 61
tgctgctcct tgagnggttg tttgt 25

<210> 62
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 62
tgctgctcct tgagnggttg tttgt 25

<210> 63
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 12
<223> n = deoxy-inosine

<400> 63
tgctccttga gnggttgttt gt 22

<210> 64
<211> 25
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 64
tgcttgtcct ggagnggttg taagt 25

<210> 65
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 65
tgcttgtcct ggagnggtgt tgt 23

<210> 66
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 66
tgctgctcct ggagnggttg t 21

<210> 67
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 67
tgctcctgga ggggttgtaa gt 22

<210> 68
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 68
tgctcctgga ggggttgtaa gtttgt 26

<210> 69
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 69
tgctccttga ggggttgt 18

<210> 70
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 70
tgctgctcct tgagnggttg t 21

<210> 71
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 12
<223> n = deoxy-inosine

<400> 71
tgctccttga gnggttgt 18

<210> 72
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 72
tgctgctcct tgagnggtgt tgt 23

<210> 73
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 12
<223> n = deoxy-inosine

<400> 73
tgctcctgga gnggttgt 18

<210> 74
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 74
tgcttgtcct ggagnggttg t 21

<210> 75
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 75
tgctgctcct tgagnggttg taagt 25

<210> 76
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 76
tgctgctcct ggaggggttg tttgt 25

<210> 77
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 4
<223> n= hexa- (ethylene glycol)

<220>
<221> misc_feature
<222> 13
<223> n = deoxy-inosine

<400> 77
nnnntcctgg agnggtgttg t 21

<210> 78
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 78
tgctgctcct ggagnggttg taagt 25

<210> 79
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 79
tgctgctcct ggagnggtgt tgt 23

<210> 80
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(18)
<223> bases are modified with a phosphoramidate
modification

<400> 80
ugcuccugga gggguugu 18

<210> 81
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 5-methyl dC (M)
modification

<220>
<221> misc_feature
<222> (5)...(6)
<223> n = C modified with a 5-methyl dC (M) modification

<400> 81
ugnunnugga gggguugu 18

<210> 82
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(18)
<223> nucleotides modified with a 2'-O-Me sugar
modification

<400> 82
ugcuccugga gggguugu 18

<210> 83
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<400> 83
nnntcctgga ggggttgt 18

<210> 84
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 16
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 17
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 18
<223> n = U modified with a 2'-O-Me sugar modification

<400> 84
tgctcctgga ggggnnnn 18

<210> 85
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 16
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (17)...(17)
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (18)...(18)
<223> n = U modified with a 2'-O-Me sugar modification

<400> 85
nnntcctgga ggggnnnn 18

<210> 86
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (11)...(14)
<223> n = G modified with a 2'-O-Me sugar modification

<400> 86
tgctcctgga nnnnttgt 18

<210> 87
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<400> 87
nnnttgtcct ggaggggttg t 21

<210> 88
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (19)...(20)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 21
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 22
<223> n = U modified with a 2'-O-Me sugar modification

<400> 88
tgctcctgga ggggaagtnn nn 22

<210> 89
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (18)...(19)
<223> U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 20
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 21
<223> n = U modified with a 2'-O-Me sugar modification

<400> 89
nnnttgtcct ggaggggnnn n 21

<210> 90
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (22)...(23)

<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 24
<223> n = G modified with a 2'-O-Me

<220>
<221> misc_feature
<222> 25
<223> n = U modified with a 2'-O-Me sugar modification

<400> 90
nnnttgtcct ggaggggaag tnnnn 25

<210> 91
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (21)...(22)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 23
<223> n = G modified with a 2'-O-Me

<220>
<221> misc_feature
<222> 24
<223> n = U modified with a 2'-O-Me sugar modification

<400> 91
nnntgtcctg gaggggaagt nnnn 24

<210> 92
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (20)...(21)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 22
<223> n = G modified with a 2'-O-Me

<220>
<221> misc_feature
<222> 23
<223> n = U modified with a 2'-O-Me sugar modification

<400> 92
nnngtcctgg aggggaagtn nnn 23

<210> 93
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (20)...(21)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 22
<223> n = G modified with a 2'-O-Me

<220>
<221> misc_feature
<222> 23
<223> n = U modified with a 2'-O-Me sugar modification

<400> 93

nnnttgtcct ggaggggtgn nnn 23

<210> 94
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (19)...(20)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 21
<223> n = G modified with a 2'-O-Me

<220>
<221> misc_feature
<222> 22
<223> n = U modified with a 2'-O-Me sugar modification

<400> 94
nnntgtcctg gaggggtgnn nn 22

<210> 95
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature

<222> (18)...(19)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 20
<223> n = G modified with a 2'-O-Me

<220>
<221> misc_feature
<222> 21
<223> n = U modified with a 2'-O-Me sugar modification

<400> 95
nnngtcctgg aggggtgnnn n 21

<210> 96
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 19
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 20
<223> n = G modified with a 2'-O-Me

<220>
<221> misc_feature
<222> 21
<223> n = U modified with a 2'-O-Me sugar modification

<400> 96
nnnttgtcct ggaggggtnn n 21

<210> 97
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1

<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 18
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 19
<223> n = G modified with a 2'-O-Me

<220>
<221> misc_feature
<222> 20
<223> n = U modified with a 2'-O-Me sugar modification

<400> 97
nnntgtcctg gaggggtnnn 20

<210> 98
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 17
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 18
<223> n = G modified with a 2'-O-Me

<220>
<221> misc_feature
<222> 19
<223> n = U modified with a 2'-O-Me sugar modification

<400> 98
nnngtcctgg aggggtnnn 19

<210> 99
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (22)...(23)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 24
<223> n = G modified with a 2'-O-Me

<220>
<221> misc_feature
<222> 25
<223> n = U modified with a 2'-O-Me sugar modification

<400> 99
nnnttgtcct ggaggggttg tnnnn 25

<210> 100
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>

<221> misc_feature
<222> 20
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (21)...(23)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 24
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 25
<223> n = U modified with a 2'-O-Me sugar modification

<400> 100
nnnttgtcct ggaggggttn nnnnn 25

<210> 101
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (22)...(23)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 24
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 25
<223> n = U modified with a 2'-O-Me sugar modification

<400> 101
nnntgctcct ggaggggttg tnnnn 25

<210> 102
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (22)...(23)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 24
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 25
<223> n = U modified with a 2'-O-Me sugar modification

<400> 102
nnntgctcct tgaggggttg tnnnn 25

<210> 103
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (20)..(21)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 22
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 23
<223> n = U modified with a 2'-O-Me sugar modification

<400> 103
nnntgctcct tgaggggtgn nnn 23

<210> 104
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 20
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (21)...(23)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 24
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 25
<223> n = U modified with a 2'-O-Me sugar modification

<400> 104
nnntgctcct tgaggggttn nnnnn 25

<210> 105
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(21)
<223> nucleotides are modified with a 2'-O-Me sugar modification

<400> 105
ugcugcuccu ugagagguug u 21

<210> 106
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<223> n = U modified with a 2'-O-Me sugar modification

<220>
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<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 20
<223> n = G modified with a 2'-O-Me sugar modification

<220>
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<222> (21)...(23)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 24
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 25
<223> n = U modified with a 2'-O-Me sugar modification

<400> 106
nnntgctcct ggaggggttn nnnnn 25

<210> 107
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<400> 107
nnntgctcct tgaggggttg tttgt 25

<210> 108
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<400> 108
nnntgctcct ggaggggttg tttgt 25

<210> 109
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
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<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 109
nnntgctcct tgagnggttg tttgt 25

<210> 110
<211> 25
<212> DNA

<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = 7-deaza-dG

<400> 110
nnntgctcct tgagnggttg tttgt 25

<210> 111
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 111
nnntgctcct tgagnggttg tttg 24

<210> 112
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>

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<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 112
nnntgctcct tgagnggttg ttt 23

<210> 113
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 113
nnntgctcct tgagnggttg tt 22

<210> 114
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<223> n = U modified with a 2'-O-Me sugar modification

<220>
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<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 114
nnntgctcct tgagnggttg t 21

<210> 115
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 115
nnntgctcct tgagnggtt 19

<210> 116
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3

<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 116
nnntgctcct tgagnggt 18

<210> 117
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification,

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 117
nnntgctcct tgagngg 17

<210> 118
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 118
nnntgctcct tgagng 16

<210> 119
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 119
nnntgctcct tgagn 15

<210> 120
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 14
<223> n = deoxy-inosine

<400> 120
nntgctcctt gagnggttgt ttgt 24

<210> 121
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 13
<223> n = deoxy-inosine

<400> 121
ntgctccttg agnggttgtt tgt 23

<210> 122
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 122
nnntgctcct tgagnggttg 20

<210> 123
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 123
nnnttgtcct ggagnggttg t 21

<210> 124
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 124
nnnttgtcct ggagnggtgt tgt 23

<210> 125
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<220>
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<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 125

nnntgctcct ggagnggttg t 21

<210> 126
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 126
nnctgctcct tgagnggttg t 21

<210> 127
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 127
ngctgctcct tgagnggttg t 21

<210> 128
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>

<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 128
nnntgctcct tgagnggtgt tgt 23

<210> 129
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 129
nnntgctcct tgagnggttg taagt 25

<210> 130
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<220>
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<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature

<222> 15
<223> n = deoxy-inosine

<400> 130
nnntgctcct ggagnggttg taagt 25

<210> 131
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
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<222> (15)...(16)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 17
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 18
<223> n = U modified with a 2'-O-Me sugar modification

<400> 131
nnntcctgga ggggnnnn 18

<210> 132
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3

<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 132
nnntgctcct ggagnggtgt tgt 23

<210> 133
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> (4)...(6)
<223> n = diethyldithiodicarbonate

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 133
nnnnnntcct ggagnggttg t 21

<210> 134
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 134
nnncaatcct ggagnggttg t 21

<210> 135
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 135
nnncaatcct ggagnggtgt tgt 23

<210> 136
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 21
<223> n = hexa- (ethylene glycol)

<400> 136
tgcttgcaag cttgcaagca ntcctggagg ggttgt 36

<210> 137
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 21
<223> n = hexa- (ethylene glycol)

<400> 137
tgcttgcaag ctagcaagca ntcctggagg ggttgt 36

<210> 138
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 21
<223> n = hexa- (ethylene glycol)

<400> 138
tgcttgcaag cttgctagca ntcctggagg ggttgt 36

<210> 139
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 21
<223> n = hexa- (ethylene glycol)

<220>
<221> misc_feature
<222> 30
<223> n = 7-deaza-dG

<400> 139
tgcttgcaag cttgctagca ntcctggagn ggttgt 36

<210> 140
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 16
<223> n = hexa- (ethylene glycol)

<400> 140
tcctggaggg gttgtntgct tgcaagcttg caagca 36

<210> 141
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (19)...(20)

<223> n = hexa- (ethylene glycol)

<400> 141
tgctcctgga ggggttgtnn 20

<210> 142
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<220>
<221> misc_feature
<222> 21
<223> n= hexa- (ethylene glycol)

<400> 142
nnnttgtcct ggagnggttg nt 22

<210> 143
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 12
<223> n = deoxy-inosine

<220>
<221> misc_feature
<222> 18
<223> n= hexa- (ethylene glycol)

<400> 143
tgctcctgga gnggttgnt 19

<210> 144
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<220>
<221> misc_feature
<222> 21
<223> n= hexa- (ethylene glycol)

<400> 144
tgctgctcct ggagnggttg nt 22

<210> 145
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 3
<223> n = C modified with a 2'-O-Me sugar modification

<220>
<221> misc_feature
<222> 4
<223> n= hexa- (ethylene glycol)

<220>
<221> misc_feature
<222> 13
<223> n = deoxy-inosine

<400> 145
nnnntcctgg agnggttgt 19

<210> 146
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(10)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> 11
<223> n = U or T,

<220>
<221> misc_feature
<222> 14
<223> n = any nucleotide

<220>
<221> misc_feature
<222> (15)...(33)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> (34)...(37)
<223> n = nucleotides are a 2'-deoxyribonucleotide

<220>
<221> misc_feature
<222> (35)...(35)
<223> n = deoxy-inosine

<220>
<221> misc_feature
<222> (38)...(38)
<223> n = any nucleotide

<220>
<221> misc_feature
<222> (39)...(57)
<223> n = any nucleotide or absent

<400> 146
nnnnnnnnnn ngcnnnnnnn nnnnnnnnnn nnngnggnnn nnnnnnnnnn nnnnnnn 57

<210> 147
<211> 113
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(10)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> 11
<223> n = u or t

<220>
<221> misc_feature
<222> 14
<223> n= any nucleotide

<220>
<221> misc_feature
<222> (15)...(113)
<223> n = any nucleotide or absent

<400> 147
nnnnnnnnnn ngcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnn 113

<210> 148
<211> 57

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(10)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> 11
<223> n = u or t

<220>
<221> misc_feature
<222> 14
<223> n = any nucleotide

<220>
<221> misc_feature
<222> (15)...(33)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> (34)...(37)
<223> n = g or a molecule that is capable of preventing
G-tetrad formation and/or preventing Hoogsteen
base pairing

<220>
<221> misc_feature
<222> (38)...(38)
<223> n = any nucleotide

<220>
<221> misc_feature
<222> (39)...(57)
<223> n = any nucleotide or absent

<400> 148
nnnnnnnnnn ngcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnn 57

<210> 149
<211> 7
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = any nucleotide

<220>
<221> misc_feature
<222> (2)...(5)
<223> n = G or a molecule that is capable of preventing
G-tetrad formation and/or preventing Hoogsteen
base pairing

<220>
<221> misc_feature

<222> (6)...(7)
<223> n = any nucleotide unless base 1 is C or A, if
base 1 is C or A bases 6 and 7 are not AA

<400> 149
nnnnnnn 7

<210> 150
<211> 8
<212> DNA
<213> Artificial Sequence

<220>
<223> Syntehtic Construct 150

<220>
<221> misc_feature
<222> 1
<223> n = C or A

<220>
<221> misc_feature
<222> (2)...(5)
<223> n = G or a molecule that is capable of preventing
G-tetrad formation and/or

<220>
<221> misc_feature
<222> 6
<223> n = any nucleotide

<220>
<221> misc_feature
<222> 7
<223> n = any nucleotide but not A if base 8 is A

<220>
<221> misc_feature
<222> 8
<223> n = any nucleotide by not A if base 7 is A

<400> 150
nnnnnnnn 8

<210> 151
<211> 1004
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> (501)...(504)
<223> n = G or a molecule that is capable of preventing
G-tetrad formation and/or preventing Hoogsteen
base pairing

<220>
<221> misc_feature
<222> (505)...(1004)
<223> n = any nucleotide or absent

<400> 151
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 960
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnn 1004

<210> 152
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(10)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> 11
<223> n = u or t

<220>
<221> misc_feature
<222> (14)...(23)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> (31)...(34)
<223> n = G, I, 7-deaza-dG or or a molecule that is
capable of preventing G-tetrad formation and/or
preventing Hoogsteen base pairing

<220>
<221> misc_feature
<222> (37)...(46)
<223> n = any nucleotide or absent

<400> 152
nnnnnnnnnn ngcnnnnnnn nnntcctgga nnnnttnnnn nnnnnn 46

<210> 153
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature

<222> (16)...(30)
<223> n = propyl linkers connected via phosphorothioate esters

<400> 153
tcctggaggg gttgtnnnnn nnnnnnnnnn t 31

<210> 154
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (16)...(30)
<223> n = glycerol linkers connected via phosphorothioate esters

<400> 154
tcctggaggg gttgtnnnnn nnnnnnnnnn t 31

<210> 155
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (16)...(23)
<223> n = triethyleneglycol linkers connected via phosphorothioate esters

<400> 155
tcctggaggg gttgtnnnnn nnnt 24

<210> 156
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (16)...(19)
<223> n = hexaethyleneglycol linkers connected via phosphorothioate esters

<400> 156
tcctggaggg gttgtnnnnt 20

<210> 157
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 157
tgactgtgaa cgttcgagat ga 22

<210> 158
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 158
tcgtcgaacg ttcgagatga t 21

<210> 159
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(22)
<223> n = a, c, t, or g

<400> 159
nnnnnnnnnn nnnnnnnnnn nn 22

<210> 160
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 160
tcctgcaggt taagt 15

<210> 161
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 161
ctatctgacg ttctctgt 18

<210> 162
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 162
ctatctgucg ttctctgt 18

<210> 163
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 10
<223> n = 2'-deoxy-7-deazaguanosine linker

<400> 163
ctatctgacn ttctctgt 18

<210> 164
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 10
<223> n = 2'-deoxy-7-deazaguanosine linker

<400> 164
ctatctgucn ttctctgt 18

<210> 165
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 7
<223> n = G modified with a 2'O-methyl-ribonucleotide

<220>
<221> misc_feature
<222> 8
<223> n = A modified with a 2'O-methyl-ribonucleotide

<400> 165
ctatctnncg ttctctgt 18

<210> 166
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 7
<223> n = G modified with a 2'O-methyl-ribonucleotide

<220>
<221> misc_feature
<222> 8
<223> n = U modified with a 2'O-methyl-ribonucleotide

<400> 166
ctatctnncg ttctctgt 18

<210> 167

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

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 7
<223> n = G modified with a 2'O-methyl-ribonucleotide

<220>
<221> misc_feature
<222> 8
<223> n = A modified with a 2'O-methyl-ribonucleotide

<220>
<221> misc_feature
<222> 10
<223> n = 2'-deoxy-7-deazaguanosine linker

<400> 167
ctatctnncn ttctctgt 18

<210> 168
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 7
<223> n = G modified with a 2'O-methyl-ribonucleotide

<220>
<221> misc_feature
<222> 8
<223> n = U modified with a 2'O-methyl-ribonucleotide

<220>
<221> misc_feature
<222> 10
<223> n = 2'-deoxy-7-deazaguanosine linker

<400> 168
ctatctnncn ttctctgt 18

<210> 169
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 4
<223> n = G modified with a 2'-OMe

<220>
<221> misc_feature
<222> 5
<223> n = A modified with a 2'-OMe

<400> 169
tctnncgttc t 11

<210> 170
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 4
<223> n = G modified with a 2'-OMe

<220>
<221> misc_feature
<222> 5
<223> n = A modified with a 2'-OMe

<220>
<221> misc_feature
<222> 7
<223> n = 7-deaza-dG

<400> 170
tctnncnttc t 11

<210> 171
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 4
<223> n = G modified with a 2'-OMe

<220>
<221> misc_feature
<222> 5
<223> n = A modified with a 2'-OMe

<220>
<221> misc_feature
<222> 7
<223> n = araG

<400> 171
tctnncnttc t 11

<210> 172
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 172
tctctgacgt t 11

<210> 173

<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 4
<223> n =G modified with a 2'-OMe

<220>
<221> misc_feature
<222> 5
<223> n = U modified with a 2'-OMe

<400> 173
tctnncgttc t 11

<210> 174
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 4
<223> n = G modified with a 2'-OMe

<220>
<221> misc_feature
<222> 5
<223> n = U modified with a 2'-OMe

<220>
<221> misc_feature
<222> 7
<223> n = 7-deaza-dG

<400> 174
tctnncnttc t 11

<210> 175
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 4
<223> n = G modified with a 2'-OMe

<220>
<221> misc_feature
<222> 5
<223> n = A modified with a 2'-OMe

<220>
<221> misc_feature
<222> 7
<223> n = araG

<400> 175
tctnncnttc t 11

<210> 176
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 4
<223> n = G modified with a 2'-OMe

<220>
<221> misc_feature
<222> 5
<223> n = A modified with a 2'-OMe

<220>
<221> misc_feature
<222> 7
<223> n = 7-deaza-dG

<400> 176
tctnncntt 9

<210> 177
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-OMe

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-OMe

<220>
<221> misc_feature
<222> 3
<223> n = U modified with a 2'-OMe

<220>
<221> misc_feature
<222> 5
<223> n = 7-deaza-dG

<400> 177
nnncnttct 9

<210> 178
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> n = U modified with a 2'-OMe

<220>
<221> misc_feature
<222> 2
<223> n = G modified with a 2'-OMe

<220>
<221> misc_feature
<222> 3
<223> n = A modified with a 2'-OMe

<220>
<221> misc_feature
<222> 5
<223> n = 7-deaza-dG

<400> 178
nnncnttct 9

<210> 179
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 179
tgctgctcct tgagnggtgt tgt 23

<210> 180
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 180
ugctgctcct tgagnggtgt tgt 23

<210> 181
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 181
tgctgctcct tgagnggttg taagt 25

<210> 182
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 15
<223> n = deoxy-inosine

<400> 182
ugctgctcct ggagnggtgt tgt 23

<210> 183
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 183
ccatgtggtt atgggt 16

<210> 184
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 184
ctaggatgcc actgctgttg 20

<210> 185
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 185
caagcctctc ctggacctaa 20

<210> 186
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 186
tccaagctcc cggctaagt 19

<210> 187
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 187
acagggcgtt ttatcttgcg 20

<210> 188
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 188
ccccttttcgt tcctcaccag 20

<210> 189
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 189
acggtcttac cctttccagt c 21

<210> 190
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 190
ccaccagctt gcctttcaga a 21

<210> 191
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 191
gtcacgcctc agcacatggt 20

<210> 192
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 192
aatgccttct aatccggtca 20

<210> 193
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 193
agtggaaagc gtggattatg a 21

<210> 194
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 194
tctggattta accggacagc 20

<210> 195
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 195
aggctggagt gtgctgagat 20

<210> 196
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 196
ccgacagcac gaggcttt 18

<210> 197
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 197
tggtgtgtga cgttcccatt 20

<210> 198
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 198
ggtctgggcc atagaactga tg 22

<210> 199
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 199
gccaccacgc tcttctgtct 20

<210> 200
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 200
aaaccgtttt tccatcttct tcttt 25

<210> 201
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 201
gacggcacac ccaccct 17

<210> 202
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 202
gacggtccgc tgcaactg 18

<210> 203
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 203
gcttccctat ggccctcatt 20

<210> 204
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 204
tgcttgtcct ggagggttgt 20

<210> 205
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature

<222> 1
<223> n = any nucleotide, a nucleotide derivator or non-nucleotdie linkage

<220>
<221> misc_feature
<222> (2)...(3)
<223> n = a nucleotide derivative or non-nucleotide linkage modification that suppresses the activity of the oligonucleotide motif

<220>
<221> misc_feature
<222> 4
<223> n = a nucleotide, nucleotide derivator, or non-nucleotide linkage modification that suppresses the activity of the oligonucleotide motif

<220>
<221> misc_feature
<222> 5
<223> n = c or pyrimidine nucleotide derivative

<220>
<221> misc_feature
<222> 6
<223> n = g or purine nucleotide derivative

<220>
<221> misc_feature
<222> (7)...(9)
<223> n = a nucleotide or nucleotide derivative

<220>
<221> misc_feature
<222> (10)...(10)
<223> n = a nucleotide, nucleotide derivator, or non-nucleotide linkage

<400> 205
nnnnnnnnnn 10

<210> 206
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (1)...(12)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> (13)...(14)
<223> n = cytidine or a derivative thereof, wherein at least one is a cytidine derivative

<220>
<221> misc_feature
<222> (15)...(17)
<223> n = any nucleotide

<220>

<221> misc_feature
<222> (18)...(38)
<223> n = any nucleotide or absent

<220>
<221> misc_feature
<222> 39
<223> n = any nucleotide

<220>
<221> misc_feature
<222> (43)...(54)
<223> n = any nucleotide or absent

<400> 206
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ggnnnnnnnn nnnn 54

<210> 207
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (2)...(3)
<223> n = cytidine or a derivative thereof,

<220>
<221> misc_feature
<222> 6
<223> n = any nucleotide

<220>
<221> misc_feature
<222> (7)...(27)
<223> n = any nucleotide or absent,

<220>
<221> misc_feature
<222> 28
<223> n = any nueclotide

<220>
<221> misc_feature
<222> (29)...(31)
<223> n = guanosine or a deaza derivative thereof

<220>
<221> misc_feature
<222> (32)...(43)
<223> n = any nucleotide or absent

<400> 207
tnntgnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnn 43