6 July 2013

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BY E-FILING ONLY

Our Reference : 2161SG244/KJR/SEL(EVA)/hba
Your Reference : 201209289-9

Dear Colleagues,

Singapore Patent Application No. 201201890-9
Invention : Methods Of Treatment Using TLR7 And/Or TLR9 Inhibitors
Applicant : Dynavax Technologies Corporation

We refer to the Patents Form 23 filed today.

Sequence Listing

The Applicant recently received the attached Declaration of Non-Establishment of the ISR/WO for PCT/US2011/040788 (copy enclosed), due to an improperly formatted sequence listing. The Applicant was not aware until receipt of the Declaration that the computer readable form of the sequence listing provided to the ISA/US during pendency of the PCT was not compliant.

Accordingly, we submit herewith a sequence listing (63 pages) for the above application.

Furthermore, we submit that the sequences listing is supported by the specification as filed, in particular as follows:

SEQ ID NO.	Basis in the specification
1-79	Paragraph [0193]
80-81	Paragraph [0203]
82-135	Paragraph [0204]
136-145	Paragraph [0221]
153-156	Paragraph [0246]
157-160	Table 1-1
161-168	Paragraph [0160]
169-178	Paragraph [0159]
179-181	Table 25-2
182	Table 25-1
183	Paragraph [0163]
184-203	Paragraph [0428]
204	Table 25-1
205	Paragraph [0023]
206	Paragraph [0024]
207	Sequence listing as filed (error report)

We trust the above is in order.

Yours faithfully,

S&F

SPRUSON & FERGUSON (ASIA) PTE LTD

Encl.

Spruson & Ferguson (Asia) Pte Ltd (Reg. No. 200100515C)

Servicing Australia, Bangladesh, Brunei, Cambodia, China, Hong Kong, India, Indonesia, Laos, Macau, Malaysia, Mongolia, Nepal, New Zealand, Pakistan, Papua New Guinea, Philippines, Singapore, South Pacific Islands, Sri Lanka, Taiwan, Thailand, Vietnam

Affiliated with Spruson & Ferguson (Australia), Spruson & Ferguson Lawyers (Australia), Spruson & Ferguson Sdn Bhd (Malaysia)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: CHRISTINE LEKUTIS
MORRISON & FOERSTER LLP
755 PAGE MILL ROAD
PALO ALTO CA 94304-1018

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

	Date of mailing *(day/month/year)* 22 MAR 2013
Applicant's or agent's file reference 377882004742	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US11/40788	International filing date *(day/month/year)* 16 June 2011
Applicant DYNAVAX TECHNOLOGIES CORPORATION	

1. ☐ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

   For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 – 9.011.

2. ☒ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

   ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.

   ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. Following the expiration of 30 months from the priority date, these comments will also be made available to the public.

   Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

   In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

   For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 Telephone No. PCT OSP: 571-272-7774

RESP TO SR 4/22/2013 5/22/2013 - F
W.O. RESP 5/22/2013 6/22/2013 - F
REF CHECKS (20047.00) 4/22/2013 6/22/2013 - F

PATENT COOPERATION TREATY

PCT

DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT
(PCT Article 17(2)(a), Rules 13*ter*.1(c) and (d) and 39)

Applicant's or agent's file reference 377882004742	**IMPORTANT DECLARATION**	Date of mailing *(day/month/year)* 22 MAR 2013
International application No. PCT/US11/40788	International filing date *(day/month/year)* 16 June 2011	(Earliest) Priority Date *(day/month/year)* 16 June 2010
International Patent Classification (IPC) or both national classification and IPC C12P 21/06 (2009.01); 514/460		
Applicant DYNAVAX TECHNOLOGIES CORPORATION		

This International Searching Authority hereby declares, according to Article 17(2)(a), that **no international search report will be established** on the international application for the reasons indicated below.

1. ☐ The subject matter of the international application relates to:
   - a. ☐ scientific theories
   - b. ☐ mathematical theories
   - c. ☐ plant varieties
   - d. ☐ animal varieties
   - e. ☐ essentially biological processes for the production of plants and animals, other than microbiological processes and the products of such processes
   - f. ☐ schemes, rules or methods of doing business
   - g. ☐ schemes, rules or methods of performing purely mental acts
   - h. ☐ schemes, rules or methods of playing games
   - i. ☐ methods for treatment of the human body by surgery or therapy
   - j. ☐ methods for treatment of the animal body by surgery or therapy
   - k. ☐ diagnostic methods practised on the human or animal body
   - l. ☐ mere presentations of information
   - m. ☐ computer programs for which this International Searching Authority is not equipped to search prior art

2. ☐ The failure of the following parts of the international application to comply with prescribed requirements prevents a meaningful search from being carried out:
   ☐ the description ☐ the claims ☐ the drawings

3. ☒ A meaningful search could not be carried out without the sequence listing; the applicant did not, within the prescribed time limit:
   - ☐ furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
   - ☒ furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
   - ☐ pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rule 13*ter*.1(a) or (b).

4. ☐ A meaningful search could not be carried out without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-*bis* of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.

5. Further comments: Applicant failed to submit a valid CRF in respone to the ISA/225 of 26 July 2011.

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/203 (April 2005)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: CHRISTINE LEKUTIS
MORRISON & FOERSTER LLP
755 PAGE MILL ROAD
PALO ALTO CA 94304-1018

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	22 MAR 2013

Applicant's or agent's file reference	FOR FURTHER ACTION
377882004742	See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US11/40788	16 June 2011	16 June 2010

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - C12P 21/06 (2009.01)
USPC - 514/460

Applicant DYNAVAX TECHNOLOGIES CORPORATION

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [X] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [ ] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	06 October 2011	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US11/40788

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

The Applicant fialed to submitted a valid CRF in response to the ISA/225 of 26 July 2011. The CRF submitted on 25 August 2011 contained errors and could be be entered into the ISA's search system. Accordingly, ISA/US is unable to search the present claims.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US11/40788

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

☒ the entire international application.

☐ claims Nos. _____

because:

☐ the said international application, or the said claims Nos. _____ relate to the following subject matter which does not require an international search *(specify)*:

☐ the description, claims or drawings *(indicate particular elements below)* or said claims Nos. _____ are so unclear that no meaningful opinion could be formed *(specify)*:

☐ the claims, or said claims Nos. _____ are so inadequately supported by the description that no meaningful opinion could be formed *(specify)*:

☒ no international search report has been established for said claims Nos. 1-30

☒ a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:

☐ furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.

☒ furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.

☐ pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rule 13*ter*.1(a) or (b).

☐ See Supplemental Box for further details.

==========

Sequence Listing could not be accepted due to errors.
See attached Validation Report.
If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).
Reviewer: Anne Corrigan
Timestamp: [year=2011; month=8; day=26; hr=9; min=42; sec=42; ms=747;]

==========

****

Reviewer Comments:

<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

The "<220>-<223>" section describing the "n" at location 4 is errored: "n" can only represent a single nucleotide, not "hexa- (ethylene glycol)". Same error ("n" representing ethylene glycol) in many subsequent sequences.

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

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> 1
<223> 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
ugctcctgga gggguugu 18

The above "<220>-<223>" sections describe "n's": however, there are no "n's" in this sequence.

<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

The above "<220>-<223>" section explaining the "n's" at locations 4-6 is errored: "n" can only represent a single nucleotide.

<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

Regarding the above "<220>-<223>" section describing the "n's": "n" can only represent a single nucleotide. Same error in Sequences 154-156.

<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

The above "<220>-<223>" sections explaing the "n's" as linkages are errored: "n" can only represent a single nucleotide.

<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> = any nucleotide

<220>
<221> misc_feature
<222> (43)...(54)
<223> n = any nucleotide or absent

<400> 206
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ggnnnnnnnn nnnn 54

Please complete the above "<223>" response explaining the "n" at location 39.

<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> 29
<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

Please ensure that all above explanations of "n's" are correct: "n" can only represent a single nucleotide. The "n" at location 28 is not explained above.

To correct the sequence listing errors noted in this report - The recommended method for correction of errors is to access the sequence listing working file using the software program in which the listing was originally prepared, e.g., the project file in PatentIn, make any necessary corrections within that program, then generate a new sequence listing file. Use of a word processing program to correct errors directly in the original sequence listing file is strongly discouraged, since such programs often introduce unintended changes to the sequence listing, rendering the listing unacceptable. When the working file or original program is not available for correction, then use of a common or plain text-only editor, such as NotePad, to edit the original sequence listing file may suffice.

****

SEQUENCE LISTING

<110> DYNANVAX TECHNOLOGIES CORPORATION
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

<150> US 61/423,076
<151> 2010-12-14

<160> 207

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 1
tcctaacggg gaagt 15

<210> 2
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 2
tcctaagggg gaagt 15

<210> 3
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 3
tcctaacggg gttgt 15

<210> 4
<211> 15
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 4
tcctaacggg gctgt 15

<210> 5
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 5
tcctcaaggg gctgt 15

<210> 6
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 6
tcctcaaggg gttgt 15

<210> 7
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 7
tcctcatggg gttgt 15

<210> 8
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 8
tcctggaggg gttgt 15

<210> 9
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 9
tcctggaggg gctgt 15

<210> 10
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 10
tcctggaggg gccat 15

<210> 11
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 11
tcctggaggg gtcat 15

<210> 12
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 12
tccggaaggg gaagt 15

<210> 13
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 13
tccggaaggg gttgt 15

<210> 14
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 14
tgactgtagg cggggaagat ga 22

<210> 15
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 15
gagcaagctg gaccttccat 20

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

<220>
<223> Synthetic Construct

<220>
<221> misc_feature

<222> 14
<223> n = 7-deaza-dG

<400> 16
cctcaagctt gagngg 16

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 17
tgcttgcaag cttgcaagca 20

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

<220>
<223> Synthetic Construct

<400> 18
tgcttgcaag cttgcaag 18

<210> 19
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 19
tgcttgcaag cttgca 16

<210> 20
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 20
gcttgcaagc ttgcaagca 19

<210> 21
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 21
cttgcaagct tgcaagca 18

<210> 22
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 22
ttgcaagctt gcaagca 17

<210> 23
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 23
tgcttgcaag ctagcaagca 20

<210> 24
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 24
tgcttgcaag cttgctagca 20

<210> 25
<211> 20
<212> DNA
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<220>
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<400> 25
tgcttgacag cttgacagca 20

<210> 26
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<220>
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<400> 26
tgcttagcag ctatgcagca 20

<210> 27
<211> 20
<212> DNA
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<220>
<223> Synthetic Construct

<400> 27
tgcaagcaag ctagcaagca 20

<210> 28
<211> 25
<212> DNA
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<220>
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<400> 28

tgcaagcttg caagcttgca agctt 25

<210> 29
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<212> DNA
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<220>
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<400> 29
tgctgcaagc ttgcagatga t 21

<210> 30
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<220>
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<400> 30
tgcttgcaag cttgcaagc 19

<210> 31
<211> 22
<212> DNA
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<220>
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<400> 31
tgcaagcttg caagcttgca at 22

<210> 32
<211> 14
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<220>
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<400> 32
tgcttgcaag cttg 14

<210> 33
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<220>
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<400> 33
agcttgcaag cttgcaagca 20

<210> 34
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<212> DNA
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<220>
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<400> 34
tacttgcaag cttgcaagca 20

<210> 35
<211> 20
<212> DNA
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<220>
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<400> 35
tgattgcaag cttgcaagca 20

<210> 36
<211> 20
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<220>
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<400> 36
aaattgcaag cttgcaagca 20

<210> 37
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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<400> 37
tgctggaggg gttgt 15

<210> 38
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<220>
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<400> 38
aaattgacag cttgacagca 20

<210> 39
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<220>
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<400> 39
tgattgacag cttgacagca 20

<210> 40
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<220>
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<400> 40
tgattgacag attgacagca 20

<210> 41
<211> 20

<212> DNA
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<220>
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<400> 41
tgattgacag attgacagac 20

<210> 42
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<220>
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<400> 42
tgctcctgga ggggttgt 18

<210> 43
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<220>
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<400> 43
tgcttgtcct ggaggggttg t 21

<210> 44
<211> 24
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<220>
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<400> 44
tgcttgacat cctggagggg ttgt 24

<210> 45
<211> 33
<212> DNA
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<220>
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<400> 45
tgcttgacag cttgacagtc ctggaggggt tgt 33

<210> 46
<211> 30
<212> DNA
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<220>
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<400> 46
tgcttgacag cttgatcctg gaggggttgt 30

<210> 47
<211> 27
<212> DNA
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<220>
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<400> 47
tgcttgacag cttcctggag gggttgt 27

<210> 48
<211> 30
<212> DNA
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<220>
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<400> 48
tgcttgacag cttgctcctg gaggggttgt 30

<210> 49
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
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<400> 49
tgcttgacag cttgcttgtc ctggaggggt tgt 33

<210> 50
<211> 35
<212> DNA
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<220>
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<400> 50
tgcttgacag cttgacagca tcctggaggg gttgt 35

<210> 51
<211> 35
<212> DNA
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<220>
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<400> 51
tgcttgacag cttgacagca tcctggaggg gttgt 35

<210> 52
<211> 32
<212> DNA
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<220>
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<400> 52
tgcttgacag cttgacagca tcctggaggg gt 32

<210> 53
<211> 31
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 53
tgcttgacag cttgacagca tcctggaggg g 31

<210> 54
<211> 30
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 54
tgcttgcaag cttgctcctg gaggggttgt 30

<210> 55
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 55
tgcttgcaag cttcctggag gggttgt 27

<210> 56
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 56
tgcttgcaag cttgcaagca tcctggaggg gttgt 35

<210> 57
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 57
tgctgctcct ggaggggttg tttgt 25

<210> 58
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 58
tgctgctcct tgaggggttg tttgt 25

<210> 59
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
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<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>
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<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>
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<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)...(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>
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<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)...(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
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<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>
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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> (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>
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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> 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> 100
nnnttgtcct ggaggggttn nnnnn 25

<210> 101
<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>
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<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>
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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>
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<222> (22)...(23)
<223> n = U modified with a 2'-O-Me sugar modification

<220>
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<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>
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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
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<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>
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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> 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> 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>
<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> 106
nnntgctcct ggaggggttn nnnnn 25

<210> 107
<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

<400> 107
nnntgctcct tgaggggttg tttgt 25

<210> 108
<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

<400> 108
nnntgctcct ggaggggttg tttgt 25

<210> 109
<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> 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>
<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 = 7-deaza-dG

<400> 110
nnntgctcct tgagnggttg tttgt 25

<210> 111
<211> 24
<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> 111
nnntgctcct tgagnggttg tttg 24

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

<220>
<223> Synthetic Construct

<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 = 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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<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>
<223> Synthetic Construct

<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>
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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> 115
nnntgctcct tgagnggtt 19

<210> 116
<211> 18
<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> 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>
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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> 118
nnntgctcct tgagng 16

<210> 119
<211> 15
<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> 119
nnntgctcct tgagn 15

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

<220>
<223> Synthetic Construct

<220>
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<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>
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<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>
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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> 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>
<223> Synthetic Construct

<220>
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<222> 1
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<220>
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<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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<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> 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-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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<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>
<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> 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-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)...(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>
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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> 134
nnncaatcct ggagnggttg t 21

<210> 135
<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> 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
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<220>
<223> Synthetic Construct

<400> 199
gccaccacgc tcttctgtct 20

<210> 200
<211> 25
<212> DNA
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<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
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<220>
<223> Synthetic Construct

<400> 203
gcttccctat ggccctcatt 20

<210> 204
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<212> DNA
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<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