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SEQUENCE LISTING

<110> FLAGSHIP PIONEERING, INC.

<120> COMPOSITIONS OF MODIFIED TREMS AND USES THEREOF

<130> F2099-7008W0

<140> PCT/US2021/065159

<141> 2021-12-23

<150> 63/130,373

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 267

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 312

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ccggacgagc cca 73

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 313

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&lt;210&gt; 314

&lt;211&gt; 73

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 314

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&lt;210&gt; 315

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

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&lt;400&gt; 366

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&lt;210&gt; 367

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&lt;213&gt; Homo sapiens

&lt;400&gt; 367

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cggtgcccc ccc 73

&lt;210&gt; 369

&lt;211&gt; 94

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 369

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ccttaggtcg ctggttcgat tccggctcga agga 94

&lt;210&gt; 370

&lt;211&gt; 90

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 370

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aggtcgctgg ttcgattccg gctcgaagga 90

&lt;210&gt; 371

&lt;211&gt; 74

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 371

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gcccgcattcc tcca 74

&lt;210&gt; 372

&lt;211&gt; 83

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 372

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ggttcgaatc ctgccgacta cgg 83

&lt;210&gt; 373

&lt;211&gt; 74

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 373

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cccggacgag ccc

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74

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tccccgtacg ggcca

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<213> Homo sapiens

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60

ggttcgaatc ccatcctcgt cga

83

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&lt;211&gt; 83

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 418

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&lt;210&gt; 419

&lt;211&gt; 84

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 419

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&lt;210&gt; 420

&lt;211&gt; 84

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 420

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gggttcgaat cccacttctg acag 84

&lt;210&gt; 421

&lt;211&gt; 74

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 421

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&lt;210&gt; 422

&lt;211&gt; 83

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 422

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&lt;210&gt; 423

&lt;211&gt; 89

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 423

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ggttgtgggt tcgaatccca ccagagtcg 89

&lt;210&gt; 424

&lt;211&gt; 72

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 424

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 425

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&lt;211&gt; 75

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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ggttcgaatc ctgccgacta cgt 83

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3

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<210> 458  
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tttcattgtg gagt

14

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<211> 14  
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<400> 559  
tttcgaagga atcc

14

<210> 560  
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oligonucleotide"

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13

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 oligonucleotide"

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16

<210> 562  
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<223> /note="This region may encompass 1-271 nucleotides"

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<223> a, c, u, or g

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<222> (333)..(334)
<223> a, c, u, or g

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<223> /replace=" "

<220>
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<222> (1)..(342)
<223> /note="Variant nucleotides given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

<220>
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<223> /note="See specification as filed for detailed description of
      substitutions and preferred embodiments"

<400> 562
rkssndurg hbyannyugr ndgwdvdydn nbnhbnryr nnnnndnnnn nnnnnnnnnn

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|                                                                               |     |
|-------------------------------------------------------------------------------|-----|
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 120 |
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 180 |
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 240 |
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 300 |
| nnnnnnnnnnnn nnnnnnnnnnnn rrduyranny ybnnhnnbwc cd                            | 342 |

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 for variant positions"

<220>  
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 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnbhnr gducrayncy ydvhyywcc d 341

<210> 564  
 <211> 341  
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 polynucleotide"

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 <221> modified\_base  
 <222> (30)..(30)  
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<222> (46)..(316)

<223> a, c, u, or g

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<222> (46)..(316)

<223> /note="This region may encompass 1-271 nucleotides"

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<223> /replace=" "

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<223> /note="Variant nucleotides given in the sequence have no preference with respect to those in the annotations for variant positions"

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<221> source

<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 564

ggggrwdurg hbyavnyggu dgarvrydyn hkywkhryrh dhdhrrnnnnn 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 nnnnnnbhnr gducraybcc ydvhyhyucc a 341

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 <222> (1)..(343)  
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 for variant positions"

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 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

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 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  
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 <223> /note="See specification as filed for detailed description of  
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 grnvbnvkb gbnydrwurg wygarnrydy ynsvyunckr mkbrrrrnnnn nnnnnnnnnnn 60  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 120  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 240  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 300  
 nnnnnnnnnnn nnnnnnnnshv gguuyranuy cbdbynnnbn hr 342

<210> 567  
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 <222> (47)..(317)  
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 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

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 grnvynskk gssydawugg aygarsgyry ykgmyuhckr akymrrnnnn 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 nnnnnnnshr gguuygavuy cydbynbdbn yg 342

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<222> (4)..(6)  
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<222> (12)..(12)  
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<222> (46)..(316)  
<223> /note="This region may encompass 1-271 nucleotides"

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 <222> (1)..(341)  
 <223> /note="Variant nucleotides given in the sequence have no  
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 for variant positions"

<220>  
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 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 568  
 dnynnndurg hnhvrynggb hurdnrynnn bsryyruuwa hbnnnnnnnnn 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 nnnnnnvnnr gukhvwnhcy nnnnnndnn r

341

<210> 569

<211> 341

<212> RNA

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<221> source

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<220>

<221> modified\_base

<222> (28)..(28)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (46)..(316)

<223> a, c, u, or g

<220>

<221> misc\_feature

<222> (46)..(316)

<223> /note="This region may encompass 1-271 nucleotides"

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<223> /replace=" "

<220>

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<222> (1)..(341)

<223> /note="Variant nucleotides given in the sequence have no preference with respect to those in the annotations for variant positions"

<220>

<221> source

<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 569

ruyucygurg hryvrunggb yuarhgcnuu ysryyruuwa hddannnnnn nnnnnnnnnnn

60



```

nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 120
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 180
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 240
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 300
nnnnnnnnnnnn nnnnnnnrgur gukhvwdmcy ayysvrrrrb r 341

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      polynucleotide"

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<222> (46)..(316)
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<220>
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<220>
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<223> /replace=" "

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<220>
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<222> (1)..(341)
<223> /note="Variant nucleotides given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

```

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<220>
<221> source
<223> /note="See specification as filed for detailed description of
      substitutions and preferred embodiments"

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```

<400> 570
ruyucygurg hryvrubggg yuaghgcbuu ysryyruuaa hyddannnnnn nnnnnnnnnnn 60

```

|                                                                               |     |
|-------------------------------------------------------------------------------|-----|
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 120 |
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 180 |
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 240 |
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 300 |
| nnnnnnnnnnnn nnnnnnnrgur gukhvwdmcy ayysvrrrry g                              | 341 |

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<220>  
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<220>  
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 <223> a, c, u, or g

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<220>
<221> modified_base
<222> (44)..(44)
<223> a, c, u, or g

<220>
<221> misc_feature
<222> (47)..(317)
<223> /note="This region may encompass 1-271 nucleotides"

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<222> (328)..(328)
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<220>
<221> modified_base
<222> (333)..(334)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (336)..(339)
<223> a, c, u, or g

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<222> (1)..(342)
<223> /replace=" "

<220>
<221> misc_feature
<222> (1)..(342)
<223> /note="Variant nucleotides given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

<220>
<221> source
<223> /note="See specification as filed for detailed description of
      substitutions and preferred embodiments"

<400> 571
knnnnndyrr ynhrrnyygr hnumdnrynb nnvhyurucr hdbnbvnnnn nnnnnnnnnn

```

|                                                                               |     |
|-------------------------------------------------------------------------------|-----|
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 120 |
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 180 |
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 240 |
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 300 |
| nnnnnnnnnnnn nnnnnnnnnnnn rgyubrhnyy ysnhnnnnnb mr                            | 342 |

<210> 572  
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 <213> Artificial Sequence

<220>  
 <221> source  
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>  
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 <222> (2)..(2)  
 <223> a, c, u, or g

<220>  
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 <222> (6)..(6)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (44)..(314)  
 <223> a, c, u, or g

<220>  
 <221> misc\_feature  
 <222> (44)..(314)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
 <221> modified\_base  
 <222> (333)..(333)  
 <223> a, c, u, or g

<220>  
 <221> variation  
 <222> (1)..(339)  
 <223> /replace=" "

<220>  
 <221> misc\_feature  
 <222> (1)..(339)  
 <223> /note="Variant nucleotides given in the sequence have no  
 preference with respect to those in the annotations  
 for variant positions"  
  
 <220>  
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 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 572  
 knsbbnwyar ywyrugguk mgwrubysyr yyurucaygb rsrnnnnnnnn 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 nnnnykrgy ubrhkyyccch rwnvksmr 339

<210> 573  
 <211> 339  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <221> source  
 <223> /note="Description of Artificial Sequence: Synthetic  
 polynucleotide"

<220>  
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 <222> (44)..(314)  
 <223> a, c, u, or g

<220>  
 <221> misc\_feature  
 <222> (44)..(314)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
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 <222> (1)..(339)  
 <223> /replace=" "

<220>

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<221> misc_feature
<222> (1)..(339)
<223> /note="Variant nucleotides given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

<220>
<221> source
<223> /note="See specification as filed for detailed description of
      substitutions and preferred embodiments"

<400> 573
umcuyruyag uaurgugguk mguruyycyg ycugucaygy ggrnnnnnnnn 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 nnnnyggrgu uyrmyyccy rasrrggag      339


<210> 574
<211> 342
<212> RNA
<213> Artificial Sequence

<220>
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      polynucleotide"


<220>
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<222> (3)..(6)
<223> a, c, u, or g


<220>
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<222> (12)..(13)
<223> a, c, u, or g


<220>
<221> modified_base
<222> (16)..(16)
<223> a, c, u, or g


<220>
<221> modified_base

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<222> (24)..(24)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (26)..(26)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (29)..(32)
<223> a, c, u, or g

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<222> (34)..(34)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (42)..(42)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (44)..(319)
<223> a, c, u, or g

<220>
<221> misc_feature
<222> (47)..(317)
<223> /note="This region may encompass 1-271 nucleotides"

<220>
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<222> (328)..(328)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (333)..(334)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (336)..(340)
<223> a, c, u, or g

<220>
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<222> (1)..(342)
<223> /replace=" "
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<220>  
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 <222> (1)..(342)  
 <223> /note="Variant nucleotides given in the sequence have no preference with respect to those in the annotations for variant positions"  
  
 <220>  
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 <223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 574  
 gsnnndurv ynnavnkcgd byynrnvbn nnvnyrcar mnbnnnnnnn 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 nnnnnnnnnb druucranyy yvnnhnnnnn yy 342

<210> 575  
 <211> 340  
 <212> RNA  
 <213> Artificial Sequence

<220>  
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 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>  
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 <222> (16)..(16)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (45)..(315)  
 <223> a, c, u, or g

<220>  
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 <222> (45)..(315)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>



<221> variation  
 <222> (1)..(340)  
 <223> /replace=" "

<220>  
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 <222> (1)..(340)  
 <223> /note="Variant nucleotides given in the sequence have no  
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 for variant positions"

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 575  
 gsgsryrkrkg yubasnkgdk uaravyahuu grcyrcarau cmarnnnnnn 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 nnnnnnyyydr uucraruyyv gkuryychyy 340

<210> 576  
 <211> 340  
 <212> RNA  
 <213> Artificial Sequence

<220>  
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 <223> /note="Description of Artificial Sequence: Synthetic  
 polynucleotide"

<220>  
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 <222> (16)..(16)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (45)..(315)  
 <223> a, c, u, or g

<220>  
 <221> misc\_feature

<222> (45)..(315)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
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 <222> (1)..(340)  
 <223> /replace=" "

<220>  
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 <222> (1)..(340)  
 <223> /note="Variant nucleotides given in the sequence have no preference with respect to those in the annotations for variant positions"

<220>  
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 <223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 576  
 gggsryrkrk yuyasnugrk uagagcayuu gacugcarau cmarnnnnnn 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 nnnnnnyyyrr uucraauyyv gkurcycmyy 340

<210> 577  
 <211> 341  
 <212> RNA  
 <213> Artificial Sequence

<220>  
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<220>  
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 <222> (4)..(6)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (12)..(13)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (16)..(16)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (20)..(21)

<223> a, c, u, or g

<220>

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<222> (24)..(24)

<223> a, c, u, or g

<220>

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<222> (28)..(31)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (33)..(33)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (40)..(41)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (43)..(319)

<223> a, c, u, or g

<220>

<221> misc\_feature

<222> (46)..(316)

<223> /note="This region may encompass 1-271 nucleotides"

<220>

<221> modified\_base

<222> (327)..(327)

<223> a, c, u, or g

<220>



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<223> a, c, u, or g

<220>
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<222> (12)..(12)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (21)..(21)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (27)..(28)
<223> a, c, u, or g

<220>
<221> misc_feature
<222> (45)..(315)
<223> /note="This region may encompass 1-271 nucleotides"

<220>
<221> modified_base
<222> (45)..(317)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (331)..(331)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (335)..(336)
<223> a, c, u, or g

<220>
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<222> (1)..(340)
<223> /replace=" "

<220>
<221> misc_feature
<222> (1)..(340)
<223> /note="Variant nucleotides given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

<220>
<221> source
<223> /note="See specification as filed for detailed description of

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## substitutions and preferred embodiments"

<400> 578  
 kdbnnydugg ynbarkmggd navvrynnhb vryubukrrb hvdvnnnnnn 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 nnnnnnnndrr uuyvadybyh nbhdnnvhmd 340

<210> 579  
 <211> 340  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <221> source  
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>  
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<220>  
 <221> modified\_base  
 <222> (21)..(21)  
 <223> a, c, u, or g

<220>  
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 <222> (27)..(28)  
 <223> a, c, u, or g

<220>  
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 <222> (45)..(315)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
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 <222> (45)..(317)  
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<220>  
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 <222> (1)..(340)  
 <223> /replace=" "

<220>  
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 <222> (1)..(340)  
 <223> /note="Variant nucleotides given in the sequence have no  
 preference with respect to those in the annotations  
 for variant positions"

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 579  
 kdbnvdydugg ydbarumggk navvrynnws rryubukrab hsdvnnnnnnn 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 nnnnnnnndrr uuyvadysyh nbhdbnvhmk 340

<210> 580  
 <211> 342  
 <212> RNA  
 <213> Artificial Sequence

<220>  
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 <223> /note="Description of Artificial Sequence: Synthetic  
 polynucleotide"

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<222> (1)..(2)  
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<220>  
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<220>  
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<222> (12)..(12)  
<223> a, c, u, or g

<220>  
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<222> (16)..(16)  
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<220>  
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<222> (20)..(21)  
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<220>  
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<222> (26)..(27)  
<223> a, c, u, or g

<220>  
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<222> (29)..(33)  
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<220>  
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<222> (41)..(41)  
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<220>  
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<222> (47)..(317)  
<223> /note="This region may encompass 1-271 nucleotides"



<220>  
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<220>  
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<220>  
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<220>  
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 <222> (1)..(342)  
 <223> /replace=" "

<220>  
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 <222> (1)..(342)  
 <223> /note="Variant nucleotides given in the sequence have no  
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 for variant positions"

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 580  
 nnbbnndunr wnhrdnhygn nbhrdnnygn nnnvyuyusr nbvnnnnnnnn nnnnnnnnnnn 60  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 120  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 240  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 300  
 nnnnnnnnnnn nnnnnnnnnbn nryubrwnyy hbnnnnndvnn nd 342

<210> 581  
 <211> 340

<212> RNA  
<213> Artificial Sequence

<220>  
<221> source  
<223> /note="Description of Artificial Sequence: Synthetic  
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<220>  
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<222> (5)..(5)  
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<220>  
<221> modified\_base  
<222> (12)..(12)  
<223> a, c, u, or g

<220>  
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<222> (20)..(20)  
<223> a, c, u, or g

<220>  
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<222> (29)..(29)  
<223> a, c, u, or g

<220>  
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<220>  
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<222> (39)..(39)  
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<220>  
<221> modified\_base  
<222> (43)..(43)  
<223> a, c, u, or g

<220>  
<221> misc\_feature  
<222> (45)..(315)  
<223> /note="This region may encompass 1-271 nucleotides"

<220>  
 <221> modified\_base  
 <222> (45)..(316)  
 <223> a, c, u, or g

<220>  
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 <222> (319)..(319)  
 <223> a, c, u, or g

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 <222> (326)..(326)  
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<220>  
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 <222> (334)..(334)  
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<220>  
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<220>  
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 <223> /replace=" "

<220>  
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 <223> /note="Variant nucleotides given in the sequence have no  
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 for variant positions"

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 581  
 nnbynbdyrg unurdyagbn krrvvywbnb nvyuyusanb vhdnnnnnnn 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 nnnnnnydnr yubrwnychb rkbndvvnvd

340

<210> 582  
 <211> 339  
 <212> RNA  
 <213> Artificial Sequence

<220>  
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 <223> /note="Description of Artificial Sequence: Synthetic  
 polynucleotide"

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<220>  
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 <222> (42)..(42)  
 <223> a, c, u, or g

<220>  
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 <222> (44)..(314)  
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<220>  
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 <222> (44)..(314)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
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 <222> (318)..(318)  
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<220>  
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 <222> (333)..(333)

<223> a, c, u, or g

<220>

<221> variation

<222> (1)..(339)

<223> /replace=" "

<220>

<221> misc\_feature

<222> (1)..(339)

<223> /note="Variant nucleotides given in the sequence have no preference with respect to those in the annotations for variant positions"

<220>

<221> source

<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 582

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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 nnnnbyrnry uyrwyucyrr gbnwrsraw 339

<210> 583

<211> 342

<212> RNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

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<222> (4)..(7)

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<220>

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<222> (12)..(12)

<223> a, c, u, or g

<220>  
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<220>  
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<220>  
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 <222> (29)..(34)  
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<220>  
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<220>  
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 <222> (47)..(317)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
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 <222> (328)..(328)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (333)..(338)  
 <223> a, c, u, or g

<220>  
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 <222> (1)..(342)  
 <223> /replace=" "

<220>  
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 <222> (1)..(342)  
 <223> /note="Variant nucleotides given in the sequence have no  
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 for variant positions"

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 583  
 rbvnnnnuwr ynyrrnyubd nnuadnrynn nnnnyybccv nnnnnnnnnnn nnnnnnnnnnn 60  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 120  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 240  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 300  
 nnnnnnnnnnn nnnnnnnnnnn vsubbrwnhc bnnnnnnnbb yw 342

<210> 584  
 <211> 340  
 <212> RNA  
 <213> Artificial Sequence

<220>  
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 <223> /note="Description of Artificial Sequence: Synthetic  
 polynucleotide"

<220>  
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 <222> (5)..(5)  
 <223> a, c, u, or g

<220>  
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 <222> (28)..(28)  
 <223> a, c, u, or g

<220>  
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 <222> (39)..(40)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (42)..(42)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (45)..(315)

<223> a, c, u, or g

 $\langle 220 \rangle$ 

<221> misc feature

 $\langle 222 \rangle \quad (45) \dots (315)$ 

<223> /note="This region may encompass 1-271 nucleotides"

 $\langle 220 \rangle$ 

<221> modified base

 $\langle 222 \rangle \quad (317) \dots (\bar{3}17)$ 

<223> a, c, u, or g

 $\langle 220 \rangle$ 

<221> modified base

 $\langle 222 \rangle \quad (335) \dots (\bar{3}35)$ 

<223> a, c, u, or g

 $\langle 220 \rangle$ 

<221> variation

<222> (1)..(340)

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<223> /replace=" "
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 $\langle 220 \rangle$ 

<221> misc feature

<222> (1).. $\overline{340}$ )

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<223> /note="Variant nucleotides given in the sequence have no
preference with respect to those in the annotations
for variant positions"
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$\langle 220 \rangle$

<221> source

<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 584

gbvbnsvurr udyrrdcgk dadmaudnhh rhyubccann ynkdnnnnnn nnnnnnnnnn 60

oooooooooooo oooooooooooooo oooooooooooooo oooooooooooooo oooooooooooooo oooooooooooooo 120

[illegible][illegible]

oooooooooooo oooooooooooooo oooooooooooooo oooooooooooooo oooooooooooooo oooooooooooooo 300

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nnnnnnnnnn nnnnbnrgs uubrwuuccy ksbsnvygca 340
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<210> 585

<211> 340

<212> RNA

### <213> Artificial Sequence



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<220>
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      polynucleotide"

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<223> a, c, u, or g

<220>
<221> modified_base
<222> (28)..(28)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (39)..(39)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (42)..(42)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (45)..(315)
<223> a, c, u, or g

<220>
<221> misc_feature
<222> (45)..(315)
<223> /note="This region may encompass 1-271 nucleotides"

<220>
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<222> (335)..(335)
<223> a, c, u, or g

<220>
<221> variation
<222> (1)..(340)
<223> /replace=" "

<220>
<221> misc_feature
<222> (1)..(340)
<223> /note="Variant nucleotides given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

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<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 585  
 gyvynsvurr udyrrwcgk kadmaudnhh rhyubccand ynkdnnnnnn 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 nnnnnbvrsg uuyrwuuccy ksbsnvygca 340

<210> 586  
 <211> 342  
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 <213> Artificial Sequence

<220>  
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 polynucleotide"

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 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (13)..(13)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (25)..(26)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (29)..(31)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (34)..(34)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (42)..(42)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (45)..(317)

<223> a, c, u, or g

<220>

<221> misc\_feature

<222> (47)..(317)

<223> /note="This region may encompass 1-271 nucleotides"

<220>

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<222> (319)..(320)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (328)..(328)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (332)..(333)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (336)..(338)

<223> a, c, u, or g

<220>

<221> variation

<222> (1)..(342)

<223> /replace=" "

<220>

<221> misc\_feature

<222> (1)..(342)

<223> /note="Variant nucleotides given in the sequence have no preference with respect to those in the annotations for variant positions"

<220>

<221> source

<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 586  
 kgynnnnduv gbnhagbyug ghyannvynn ndbnyugugr hnvhnntnnnnn nnnnnnnnnnn 60  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 120  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 240  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 300  
 nnnnnnnnnnn nnnnnnnnnnn rgyucranyc ynnbhnnnvr ym 342

<210> 587  
 <211> 339  
 <212> RNA  
 <213> Artificial Sequence

<220>  
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 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>  
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 <222> (44)..(314)  
 <223> a, c, u, or g

<220>  
 <221> misc\_feature  
 <222> (44)..(314)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
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 <222> (1)..(339)  
 <223> /replace=" "

<220>  
 <221> misc\_feature  
 <222> (1)..(339)  
 <223> /note="Variant nucleotides given in the sequence have no preference with respect to those in the annotations for variant positions"

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

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<400> 587
gchrugaybg uayagkgguu asyacucugy gyuguggccr cagnnnnnnnn 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 nnnncwyggy ucraaucyga gucaygrca                               339

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<210> 588
<211> 339
<212> RNA
<213> Artificial Sequence

```

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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
      polynucleotide"

```

```

<220>
<221> modified_base
<222> (44)..(314)
<223> a, c, u, or g

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<220>
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<222> (44)..(314)
<223> /note="This region may encompass 1-271 nucleotides"

```

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<220>
<221> variation
<222> (1)..(339)
<223> /replace=" "

```

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<220>
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<222> (1)..(339)
<223> /note="Variant nucleotides given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

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<220>
<221> source
<223> /note="See specification as filed for detailed description of
      substitutions and preferred embodiments"

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<400> 588

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gcmrugayyg uauagugguu agyacucugy gyuguggccr cagnnnnnnnn nnnnnnnnnnn 60  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 120  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 240  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 300  
 nnnnnnnnnnn nnnncwyggu ucraaucyga gucaygrca 339

<210> 589

<211> 342

<212> RNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>

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<222> (1)..(1)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (4)..(5)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (7)..(7)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (17)..(17)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (31)..(32)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (34)..(34)

<223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (37)..(37)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (42)..(320)  
 <223> a, c, u, or g

<220>  
 <221> misc\_feature  
 <222> (47)..(317)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
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 <222> (328)..(329)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (332)..(334)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (336)..(339)  
 <223> a, c, u, or g

<220>  
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 <222> (1)..(342)  
 <223> /replace=" "

<220>  
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 <222> (1)..(342)  
 <223> /note="Variant nucleotides given in the sequence have no  
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 for variant positions"

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 589  
 nvsnnbndur gybyrrnywg gbhrdvrydb nbnbyunaur anoooooooooooooooooooo 60

oooooooooooo ooooooooooooo ooooooooooooo ooooooooooooo ooooooooooooo 120

```

nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn      180
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn      240
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn      300
nnnnnnnnnnn nnnnnnnnnnnn dsywydannnc hnnnhnnnnns ba                                342

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<210> 590
<211> 340
<212> RNA
<213> Artificial Sequence

```

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<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polynucleotide"

```

```

<220>
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<222> (45)..(315)
<223> a, c, u, or g

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<220>
<221> misc_feature
<222> (45)..(315)
<223> /note="This region may encompass 1-271 nucleotides"

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<220>
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<222> (326)..(327)
<223> a, c, u, or g

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<220>
<221> modified_base
<222> (335)..(335)
<223> a, c, u, or g

```

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<220>
<221> variation
<222> (1)..(340)
<223> /replace=" "

```

```

<220>
<221> misc_feature
<222> (1)..(340)
<223> /note="Variant nucleotides given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

```

```

<220>

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<221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 590  
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 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 nnnnnryrrs ywydanncyc rymyngrsca 340

<210> 591  
 <211> 340  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <221> source  
 <223> /note="Description of Artificial Sequence: Synthetic  
 polynucleotide"

<220>  
 <221> modified\_base  
 <222> (45)..(315)  
 <223> a, c, u, or g

<220>  
 <221> misc\_feature  
 <222> (45)..(315)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
 <221> variation  
 <222> (1)..(340)  
 <223> /replace=" "

<220>  
 <221> misc\_feature  
 <222> (1)..(340)  
 <223> /note="Variant nucleotides given in the sequence have no  
 preference with respect to those in the annotations  
 for variant positions"

<220>  
 <221> source

<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 591

gsyysrkurg ykcaruyggy haggcggyg urcudauaay rcyrnnnnnn 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 nnnnngygrg yucrabcyc rymybgisca 340

<210> 592

<211> 341

<212> RNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>

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<222> (1)..(1)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (3)..(6)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (11)..(12)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (16)..(17)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (21)..(22)

<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (25)..(26)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (28)..(31)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (41)..(41)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (43)..(316)  
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<220>  
<221> misc\_feature  
<222> (46)..(316)  
<223> /note="This region may encompass 1-271 nucleotides"

<220>  
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<222> (318)..(319)  
<223> a, c, u, or g

<220>  
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<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (331)..(332)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (335)..(338)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (340)..(340)  
<223> a, c, u, or g

<220>  
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<222> (1)..(341)

<223> /replace=" "

<220>

<221> misc\_feature

<222> (1)..(341)

<223> /note="Variant nucleotides given in the sequence have no preference with respect to those in the annotations for variant positions"

<220>

<221> source

<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 592

nbnnndurs nnbarnnhgg nnddnbnbn nvdhycauah nbnnnnnnnn 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 nnnnnnvnnr gdusdanhmy nnbhnnnnvn w 341

<210> 593

<211> 339

<212> RNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>

<221> modified\_base

<222> (4)..(4)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (44)..(314)

<223> a, c, u, or g

<220>

<221> misc\_feature

<222> (44)..(314)

<223> /note="This region may encompass 1-271 nucleotides"

<220>  
 <221> variation  
 <222> (1)..(339)  
 <223> /replace=" "

<220>  
 <221> misc\_feature  
 <222> (1)..(339)  
 <223> /note="Variant nucleotides given in the sequence have no  
 preference with respect to those in the annotations  
 for variant positions"

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 593  
 rbcnbvkurg ygcagydggh agyryryyrg kyycauaahy yvrnnnnnnnn 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 nnnnsdkrgd usdadmmymw smbvbgsya 339

<210> 594  
 <211> 339  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <221> source  
 <223> /note="Description of Artificial Sequence: Synthetic  
 polynucleotide"

<220>  
 <221> modified\_base  
 <222> (44)..(314)  
 <223> a, c, u, or g

<220>  
 <221> misc\_feature  
 <222> (44)..(314)  
 <223> /note="This region may encompass 1-271 nucleotides"

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<220>
<221> variation
<222> (1)..(339)
<223> /replace=" "

<220>
<221> misc_feature
<222> (1)..(339)
<223> /note="Variant nucleotides given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

<220>
<221> source
<223> /note="See specification as filed for detailed description of
      substitutions and preferred embodiments"

<400> 594
rschbvkurg ygcagydggh agcryryyrg kyycauaayc yrrnnnnnnnn 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 nnnnswkrgw usdadmcymw smbvkgsya                               339

<210> 595
<211> 342
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polynucleotide"

<220>
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<222> (2)..(7)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (9)..(12)
<223> a, c, u, or g

<220>

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<221> modified\_base  
<222> (16)..(16)  
<223> a, c, u, or g

<220>  
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<222> (23)..(23)  
<223> a, c, u, or g

<220>  
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<222> (26)..(26)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (28)..(34)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (37)..(37)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (41)..(317)  
<223> a, c, u, or g

<220>  
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<220>  
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<220>  
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<220>  
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 substitutions and preferred embodiments"

<400> 595  
 vnnnnnnunn nnvrrnhhgk hhndhvnvnn nnnnhynard 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 nnnnnnnvnn vbyuhvany bnnbnnnnnn br 342

<210> 596  
 <211> 342  
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<220>  
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<223> a, c, u, or g

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<223> a, c, u, or g

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<223> a, c, u, or g

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<223> /note="Variant nucleotides given in the sequence have no preference with respect to those in the annotations for variant positions"

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<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 596

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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 nnnnnnnnvv gbyuhvany ybnnbbbn ya 342

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<211> 342

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<223> /note="Variant nucleotides given in the sequence have no
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      for variant positions"

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<220>
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<223> /note="See specification as filed for detailed description of
      substitutions and preferred embodiments"

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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 nnnnnnnvnnv gbyuhvavym ybnbynbbvn ya

342

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<220>

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<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 598

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nnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn 120

nnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn 180

nnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn 240

nnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn 300

nnnnnnnnnnnn nnnnnnnnnnnnn vryuyrwnhy bnnbnnnnnnn hd 342

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<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnrgr yuyrwbyysy nbnnhndrhr 340

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<211> 340

<212> RNA

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<220>

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<223> a, c, u, or g

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<220>

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<223> /note="Variant nucleotides given in the sequence have no preference with respect to those in the annotations for variant positions"

<220>

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<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnndrgr yuyrwkyysy hbnhynkryr 340

<210> 601

<211> 341

<212> RNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"



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<223> a, c, u, or g
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<222> (41)..(41)
<223> a, c, u, or g
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<220>
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<223> /note="See specification as filed for detailed description of
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<400> 601
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nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn      120

nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn      180

nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn      240

nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn      300

nnnnnnnnnnn nnnnnnnnnbd guucranych nnbhnnnnvm a                          341


<210> 602
<211> 340
<212> RNA
<213> Artificial Sequence

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<220>
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<223> /note="This region may encompass 1-271 nucleotides"

<220>
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<223> /replace=" "

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<223> /note="Variant nucleotides given in the sequence have no preference with respect to those in the annotations for variant positions"

<220>

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<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

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nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 120

nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 180

nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 240

nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 300

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<220>

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<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>

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<222> (44)..(314)

<223> /note="This region may encompass 1-271 nucleotides"

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<220>

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<222> (1)..(339)

<223> /note="Variant nucleotides given in the sequence have no

preference with respect to those in the annotations  
for variant positions"

<220>

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<223> /note="See specification as filed for detailed description of  
substitutions and preferred embodiments"

<400> 603

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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 nnnnycuggu ucraaycygg guuucrvca 339

<210> 604

<211> 342

<212> RNA

<213> Artificial Sequence

<220>

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<223> a, c, u, or g

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<222> (16)..(16)

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<222> (29)..(34)

<223> a, c, u, or g

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<223> a, c, u, or g

<220>
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<223> /replace=" "

<220>
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<223> /note="Variant nucleotides given in the sequence have no
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      for variant positions"

<220>
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<223> /note="See specification as filed for detailed description of
      substitutions and preferred embodiments"

<400> 604
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      180

```

nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 240

nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 300

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<212> RNA

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<220>

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<222> (43)..(313)

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<222> (43)..(313)

<223> /note="This region may encompass 1-271 nucleotides"

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<220>

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<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 605

ggcusguugg kcuagkgbur ugruucurs yuhggrysnr agnnnnnnnnn nnnnnnnnnnn

60

```

nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn      120
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn      180
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn      240
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn      300
nnnnnnnnnnnn nnncyggguu caaauvcyrg asgagccc                                     338

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<210> 606
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<223> /replace=" "

```

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<220>
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      preference with respect to those in the annotations
      for variant positions"

```

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<220>
<221> source
<223> /note="See specification as filed for detailed description of
      substitutions and preferred embodiments"

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<400> 606
ggcucguugg ucuagkkggur ugruucucgs uuhggrysbg agnnnnnnnnnn nnnnnnnnnnnn      60

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|                                                                               |     |
|-------------------------------------------------------------------------------|-----|
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 120 |
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 180 |
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 240 |
| nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn | 300 |
| nnnnnnnnnnnn nnnccggguu caaaucccgg acgagccc                                   | 338 |

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<220>  
 <221> source  
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>  
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 <223> a, c, u, or g

<220>  
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 <222> (9)..(13)  
 <223> a, c, u, or g

<220>  
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 <222> (16)..(16)  
 <223> a, c, u, or g

<220>  
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 <222> (21)..(21)  
 <223> a, c, u, or g

<220>  
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 <222> (25)..(28)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (30)..(34)  
 <223> a, c, u, or g

<220>



<221> modified\_base  
 <222> (37)..(37)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (42)..(320)  
 <223> a, c, u, or g

<220>  
 <221> misc\_feature  
 <222> (47)..(317)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
 <221> modified\_base  
 <222> (332)..(340)  
 <223> a, c, u, or g

<220>  
 <221> variation  
 <222> (1)..(342)  
 <223> /replace=" "

<220>  
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 <222> (1)..(342)  
 <223> /note="Variant nucleotides given in the sequence have no  
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 for variant positions"

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 607  
 dnnnnnnynnn nnnarnbhgg nbbannnnndn nnnnyynswr mnnnnnnnnnn nnnnnnnnnnn 60  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 120  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 240  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 300  
 nnnnnnnnnnn nnnnnnnnnnn rkuuyradyc ynnnnnnnnnn bd 342

<210> 608  
 <211> 341  
 <212> RNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>

<221> modified\_base

<222> (2)..(5)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (36)..(36)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (46)..(316)

<223> a, c, u, or g

<220>

<221> misc\_feature

<222> (46)..(316)

<223> /note="This region may encompass 1-271 nucleotides"

<220>

<221> modified\_base

<222> (319)..(319)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (331)..(331)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (335)..(336)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (338)..(339)

<223> a, c, u, or g

<220>

<221> variation

<222> (1)..(341)

<223> /replace=" "

<220>  
 <221> misc\_feature  
 <222> (1)..(341)  
 <223> /note="Variant nucleotides given in the sequence have no  
 preference with respect to those in the annotations  
 for variant positions"  
  
 <220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 608  
 knnnnbdurg chsarkbugg uuavdghrdb kdracynswra ybmvdnnnnn 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 nnnnnnvying kuuyradycc nrbhnnbnny d 341

<210> 609  
 <211> 341  
 <212> RNA  
 <213> Artificial Sequence

<220>  
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 <223> /note="Description of Artificial Sequence: Synthetic  
 polynucleotide"

<220>  
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 <222> (2)..(3)  
 <223> a, c, u, or g

<220>  
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 <222> (5)..(5)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (36)..(36)  
 <223> a, c, u, or g

<220>

<221> modified\_base  
 <222> (46)..(316)  
 <223> a, c, u, or g

<220>  
 <221> misc\_feature  
 <222> (46)..(316)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
 <221> modified\_base  
 <222> (335)..(336)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (338)..(339)  
 <223> a, c, u, or g

<220>  
 <221> variation  
 <222> (1)..(341)  
 <223> /replace=" "

<220>  
 <221> misc\_feature  
 <222> (1)..(341)  
 <223> /note="Variant nucleotides given in the sequence have no  
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 for variant positions"

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 609  
 knndnbrurg chsarkcugg uuavdghrwy krrcunswra yymrdnnnnn 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 nnnnnnvdyg guuyraaycc hrbynny nny k 341

<210> 610  
 <211> 341  
 <212> RNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>

<221> modified\_base

<222> (4)..(7)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (12)..(12)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (16)..(16)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (25)..(25)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (29)..(31)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (33)..(33)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (36)..(36)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (41)..(41)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (43)..(319)

<223> a, c, u, or g

<220>  
 <221> misc\_feature  
 <222> (46)..(316)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
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 <222> (327)..(327)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (331)..(337)  
 <223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (341)..(341)  
 <223> a, c, u, or g

<220>  
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 <222> (1)..(341)  
 <223> /replace=" "

<220>  
 <221> misc\_feature  
 <222> (1)..(341)  
 <223> /note="Variant nucleotides given in the sequence have no  
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 for variant positions"

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 610  
 rbbnnnnurg ynhadnhykg hyrdnryrnn nsnhynguwa nsnnnnnnnnn nnnnnnnnnnn 60  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 120  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 240  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 300  
 nnnnnnnnnnn nnnnnnnnnnd gwyvvanbyh nnnnnnnrvy n 341

<210> 611  
 <211> 340

<212> RNA  
<213> Artificial Sequence

<220>  
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<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>  
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<222> (4)..(4)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (6)..(6)  
<223> a, c, u, or g

<220>  
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<222> (12)..(12)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (24)..(24)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (45)..(315)  
<223> a, c, u, or g

<220>  
<221> misc\_feature  
<222> (45)..(315)  
<223> /note="This region may encompass 1-271 nucleotides"

<220>  
<221> modified\_base  
<222> (317)..(317)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (326)..(326)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (331)..(332)  
<223> a, c, u, or g

<220>  
 <221> modified\_base  
 <222> (334)..(334)  
 <223> a, c, u, or g

<220>  
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 <222> (336)..(336)  
 <223> a, c, u, or g

<220>  
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 <222> (1)..(340)  
 <223> /replace=" "

<220>  
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 <222> (1)..(340)  
 <223> /note="Variant nucleotides given in the sequence have no  
 preference with respect to those in the annotations  
 for variant positions"

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 611  
 rbbnbnduvg ynharbyggh yrdnryryhb sbcyhguwav svdrnnnnnnn 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 nnnnnvndrg wuyvanbyyh nnbndnrvyb 340

<210> 612  
 <211> 340  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <221> source  
 <223> /note="Description of Artificial Sequence: Synthetic  
 polynucleotide"



<220>  
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<222> (4)..(4)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (6)..(6)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (12)..(12)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (24)..(24)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (45)..(315)  
<223> a, c, u, or g

<220>  
<221> misc\_feature  
<222> (45)..(315)  
<223> /note="This region may encompass 1-271 nucleotides"

<220>  
<221> modified\_base  
<222> (326)..(326)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (332)..(332)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (334)..(334)  
<223> a, c, u, or g

<220>  
<221> modified\_base  
<222> (336)..(336)  
<223> a, c, u, or g

<220>  
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<223> /replace=" "

<220>

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<222> (1)..(340)

<223> /note="Variant nucleotides given in the sequence have no preference with respect to those in the annotations for variant positions"

<220>

<221> source

<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 612

rsynbnduvg ynharbuggh yrdnryryhk sbcyhguaav smdrnnnnnnn nnnnnnnnnn 60

nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 120

nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 180

nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 240

nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 300

nnnnnnnnnnn nnnnnvhdr g wuyvanbyyh dnbndnrsyu 340

<210> 613

<211> 342

<212> RNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>

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<222> (4)..(6)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (29)..(32)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (34)..(34)

<223> a, c, u, or g

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<221> modified_base
<222> (42)..(42)
<223> a, c, u, or g
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<220>
<221> modified_base
<222> (44)..(317)
<223> a, c, u, or g
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<220>
<221> misc_feature
<222> (47)..(317)
<223> /note="This region may encompass 1-271 nucleotides"
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<220>
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<223> a, c, u, or g
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<220>
<221> modified_base
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<223> a, c, u, or g
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<220>
<221> modified_base
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<223> a, c, u, or g
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<220>
<221> modified_base
<222> (333)..(333)
<223> a, c, u, or g
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<220>
<221> modified_base
<222> (336)..(338)
<223> a, c, u, or g
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<220>
<221> variation
<222> (1)..(342)
<223> /replace=" "
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```
<220>
<221> misc_feature
<222> (1)..(342)
<223> /note="Variant nucleotides given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"
```

<220>  
 <221> source  
 <223> /note="See specification as filed for detailed description of  
 substitutions and preferred embodiments"

<400> 613  
 rvvnnndurr ybhhrhyhgg hyuadvvynn nrrnbuccav anbnnnnnnnn 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 nnnnnnnvnr nguucranyc hynbhnnbb hd 342

<210> 614  
 <211> 339  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <221> source  
 <223> /note="Description of Artificial Sequence: Synthetic  
 polynucleotide"

<220>  
 <221> modified\_base  
 <222> (44)..(314)  
 <223> a, c, u, or g

<220>  
 <221> misc\_feature  
 <222> (44)..(314)  
 <223> /note="This region may encompass 1-271 nucleotides"

<220>  
 <221> variation  
 <222> (1)..(339)  
 <223> /replace=" "

<220>  
 <221> misc\_feature  
 <222> (1)..(339)  
 <223> /note="Variant nucleotides given in the sequence have no  
 preference with respect to those in the annotations  
 for variant positions"

<220>

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<221> source
<223> /note="See specification as filed for detailed description of
        substitutions and preferred embodiments"

<400> 614
grmmkvrkgg ysmaryuggh arssykkybr rsuccasakb vrwnnnnnnnn nnnnnnnnnn      60
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn      120
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn      180
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn      240
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn      300
nnnnnnnnnnn nnnnsygkgu ucradycmcr kyksbgyma                               339

<210> 615
<211> 339
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
        polynucleotide"

<220>
<221> modified_base
<222> (44)..(314)
<223> a, c, u, or g

<220>
<221> misc_feature
<222> (44)..(314)
<223> /note="This region may encompass 1-271 nucleotides"

<220>
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<222> (1)..(339)
<223> /replace=" "

<220>
<221> misc_feature
<222> (1)..(339)
<223> /note="Variant nucleotides given in the sequence have no
        preference with respect to those in the annotations
        for variant positions"

<220>
<221> source

```

<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 615

grmmkvrkkg ysmaryuggh arssykybr rsuccasakb vrwnnnnnnnn 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 nnnnsygkgu ucradycmcr kyksbgyma 339

<210> 616

<211> 342

<212> RNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>

<221> modified\_base

<222> (3)..(6)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (9)..(10)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (12)..(13)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (16)..(16)

<223> a, c, u, or g

<220>

<221> modified\_base

<222> (25)..(26)

<223> a, c, u, or g

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<220>
<221> modified_base
<222> (30)..(32)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (42)..(42)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (44)..(317)
<223> a, c, u, or g

<220>
<221> misc_feature
<222> (47)..(317)
<223> /note="This region may encompass 1-271 nucleotides"

<220>
<221> modified_base
<222> (319)..(320)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (328)..(328)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (332)..(333)
<223> a, c, u, or g

<220>
<221> modified_base
<222> (336)..(340)
<223> a, c, u, or g

<220>
<221> variation
<222> (1)..(342)
<223> /replace=" "

<220>
<221> misc_feature
<222> (1)..(342)
<223> /note="Variant nucleotides given in the sequence have no
      preference with respect to those in the annotations
      for variant positions"

<220>

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```

<221> source
<223> /note="See specification as filed for detailed description of
        substitutions and preferred embodiments"

<400> 616
bbnnndunn ynnarnyugs yhwrrnrbdn nrrdcuruar vnynnnnnnn 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 nnnnnnnvnn vgwuyranuc bnnbhnnnnn vd                          342


<210> 617
<211> 340
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
        polynucleotide"

<220>
<221> modified_base
<222> (45)..(315)
<223> a, c, u, or g

<220>
<221> misc_feature
<222> (45)..(315)
<223> /note="This region may encompass 1-271 nucleotides"

<220>
<221> modified_base
<222> (336)..(336)
<223> a, c, u, or g

<220>
<221> variation
<222> (1)..(340)
<223> /replace=" "

<220>
<221> misc_feature
<222> (1)..(340)
<223> /note="Variant nucleotides given in the sequence have no

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preference with respect to those in the annotations  
for variant positions"

<220>

<221> source

<223> /note="See specification as filed for detailed description of  
substitutions and preferred embodiments"

<400> 617

bbkkbdauag yucagbugsy uagagydkwk racuruagrk ymwknntnnnnn nnnnnnnnnnn 60

nnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn 120

nnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn 180

nnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn 240

nnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn nnnnnnnnnnnnn 300

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<210> 618

<211> 340

<212> RNA

<213> Artificial Sequence

<220>

<221> source

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<222> (45)..(315)

<223> a, c, u, or g

<220>

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<222> (45)..(315)

<223> /note="This region may encompass 1-271 nucleotides"

<220>

<221> variation

<222> (1)..(340)

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<220>

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<222> (1)..(340)

<223> /note="Variant nucleotides given in the sequence have no  
preference with respect to those in the annotations"

<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

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<223> a, c, u, or g

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<223> a, c, u, or g

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<223> a, c, u, or g

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<223> a, c, u, or g

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nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180

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<211> 76

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cccggcgagg ucgcca 76

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ucccgcgga gucgcca 77

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 cctggctggc tcg 73

<210> 1204  
 <211> 73  
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<220>  
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 <223> /note="Description of Artificial Sequence: Synthetic  
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<400> 1204  
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 cccttcgtgg tcg 73

<210> 1205  
 <211> 73  
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 cccacctggg gta 73

<210> 1206  
 <211> 73  
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<221> source  
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<400> 1206  
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 ccctccgtgg tcg 73

<210> 1207  
 <211> 74  
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 <223> a, c, t, g, unknown or other

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<210> 1208  
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<210> 1213  
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 ccggtcaggg aa 72

<210> 1214  
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 $\langle 222 \rangle \quad (42) \dots (\bar{4}\bar{2})$ 

<223> a, c, t, g, unknown or other

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ccggtcaggg aa 72

$\langle 210 \rangle$  1215

<211> 71

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<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 $\langle 220 \rangle$ 

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 $\langle 222 \rangle \quad (40) \dots (\bar{40})$ 

<223> a, c, t, g, unknown or other

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$\langle 210 \rangle$  1216

<211> 71

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<221> source

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cggccaatgc a 71

<210> 1217

<211> 72  
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<400> 1217  
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 ccggccaacg ca 72

<210> 1218  
 <211> 74  
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<400> 1219  
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 cctcacctgg agca 74

<210> 1220  
 <211> 82  
 <212> DNA  
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<220>

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ggttcgaatc ccaccgctgc ca 82

<210> 1221

<211> 85

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<223> a, c, t, g, unknown or other

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gtgggttcga atcccacttc tgaca 85

<210> 1222

<211> 83

<212> DNA

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gggttcgaat cccactcctg aca 83

<210> 1223  
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 gggttcgaac cccactcctg gta 83

<210> 1224  
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 ggttcgaatc ccaccgctgc ca 82

<210> 1225  
 <211> 76  
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 <211> 73  
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 ctcagagagg gca 73

<210> 1228  
 <211> 74  
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<222> (41)..(41)

<223> a, c, t, g, unknown or other

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cccgggtttc ggca 74

<210> 1229

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic  
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ccggacgagc cc 72

<210> 1230

<211> 72

<212> DNA

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<223> /note="Description of Artificial Sequence: Synthetic  
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ccggacgagc cc 72

<210> 1231

<211> 72

<212> DNA

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<223> /note="Description of Artificial Sequence: Synthetic  
oligonucleotide"

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ccggacgagc cc 72

<210> 1232

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<212> DNA

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<223> /note="Description of Artificial Sequence: Synthetic  
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ggttcgaadc ctgccgacta cg 82

<210> 1233

<211> 82

<212> DNA

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<220>

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<223> /note="Description of Artificial Sequence: Synthetic  
oligonucleotide"

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gctgtgatgg ccgagtggtt aaggcgttgg actcgaaadc caatgggggtc tccccgcgca 60

ggttcgaadc ctgctcacag cg 82

<210> 1234

<211> 84

<212> DNA

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tgggttcgaa tcccatcctc gtcg                                             84

<210> 1235
<211> 82
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<400> 1235
gtagtcgtgg ccgagtgggtt aaggcgatgg acttgaaatc cattggggtc tccccgcgca      60

ggttcgaatc ctgccggcta cg                                              82

<210> 1236
<211> 74
<212> DNA
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
      oligonucleotide"

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ggctccgtgg cttagctggt taaagcgctt gtctagtaaa caggagatcc tgggttcgaa      60

tcccagcggg gcct                                                       74

<210> 1237
<211> 75
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 <223> a, c, t, g, unknown or other

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atcccancng ggcct 75

<210> 1238  
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tctcgctggg gcct 74

<210> 1239

<211> 72

<212> DNA

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acgtcggggt ca 72

<210> 1240

<211> 73

<212> DNA

<213> Artificial Sequence

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ccggctcgaa gga 73

<210> 1241

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<212> DNA

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ccgggcggaa aca                                                                73

<210> 1242
<211> 73
<212> DNA
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<220>
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gtttccgtag tgtagtgggtt atcacgttcg cctcacacgc gaaaggtccc cggttcgaaa      60

ccgggcggaa aca                                                                73

<210> 1243
<211> 73
<212> DNA
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<220>
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ggttccatag tgtagtgggtt atcacgtctg ctttacacgc agaaggtcct gggttcgagc      60

cccagtggaa cca                                                                73

<210> 1244
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<400> 1244

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<210> 1246  
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<210> 1247  
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<210> 1248  
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<210> 1249  
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<222> (74)..(76)

<223> a, c, t, g, unknown or other

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cccttcgtgg tcgnnn 76

<210> 1250

<211> 76

<212> DNA

<213> Artificial Sequence

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<222> (74)..(76)

<223> a, c, t, g, unknown or other

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cccacctggg gtannn 76

<210> 1251

<211> 76

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<223> a, c, t, g, unknown or other

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ccctccgtgg tcgnnn 76

<210> 1252  
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<400> 1252  
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 <211> 78  
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<210> 1254  
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<210> 1257  
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<210> 1258  
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 ccggtcaggg aannn 75

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 <223> a, c, t, g, unknown or other

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<210> 1262  
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ccggccaacg cannn                                                         75

<210> 1263
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<400> 1263
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ccccgtacgg gccannn                                                         77

<210> 1264
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cctcacctgg agcannn

77

&lt;210&gt; 1265

&lt;211&gt; 85

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; source

<223> /note="Description of Artificial Sequence: Synthetic  
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&lt;221&gt; modified\_base

&lt;222&gt; (83)..(85)

&lt;223&gt; a, c, t, g, unknown or other

&lt;400&gt; 1265

ggtagcgtgg ccgagcggtc taaggcgctg gattaaggct ccagtctctt cgggggcgtg 60

ggttcgaatc ccaccgctgc cannn 85

&lt;210&gt; 1266

&lt;211&gt; 88

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

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&lt;222&gt; (21)..(21)

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&lt;222&gt; (52)..(52)

&lt;223&gt; a, c, t, g, unknown or other

&lt;220&gt;

&lt;221&gt; modified\_base

&lt;222&gt; (86)..(88)

&lt;223&gt; a, c, t, g, unknown or other

&lt;400&gt; 1266

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gtgggttcga atcccacttc tgacannn

88

<210> 1267

<211> 86

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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<222> (84)..(86)

<223> a, c, t, g, unknown or other

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60

gggttcgaat cccactcctg acannn

86

<210> 1268

<211> 86

<212> DNA

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<220>

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<222> (84)..(86)

<223> a, c, t, g, unknown or other

<400> 1268

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60

gggttcgaac cccactcctg gtannn

86

<210> 1269

<211> 85

<212> DNA

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 <223> a, c, t, g, unknown or other

<400> 1269  
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 gggttcgaatc ccaccgctgc cannn 85

<210> 1270  
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 cccacgttgg gcgnnnnnn 79

<210> 1271  
 <211> 76  
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 <223> a, c, t, g, unknown or other

<400> 1271  
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 ccctgttcag gcgnnn 76

<210> 1272  
 <211> 76  
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 <223> a, c, t, g, unknown or other

<400> 1272  
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 ctcatgagagg gcannn 76

<210> 1273  
 <211> 77  
 <212> DNA  
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<223> a, c, t, g, unknown or other

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<223> a, c, t, g, unknown or other

<400> 1273
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cccgggtttc ggcannn                                                    77

<210> 1274
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<223> a, c, t, g, unknown or other

<400> 1274
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ccggacgagc ccnnn                                                    75

<210> 1275
<211> 75
<212> DNA
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<400> 1275

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ggctcgttgg tctaggggta tgattctcgc ttcgggtgcg agaggtcccg ggttcaaadc 60  
ccggacgagc ccnnn 75

<210> 1276  
<211> 75  
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ccggacgagc ccnnn 75

<210> 1277  
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<210> 1278  
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 ggttcgaatc ctgctcacag cgnnn 85

<210> 1279  
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 <223> a, c, t, g, unknown or other

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<210> 1280  
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<223> a, c, t, g, unknown or other

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ggttcgaatc ctgccggcta cgnnn 85

<210> 1281

<211> 77

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tcccagcggg gcctnnn 77

<210> 1282

<211> 78

<212> DNA

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atccancng ggcctnnn 78

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<210> 1284  
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<210> 1285  
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<210> 1289  
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<210> 1290  
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ccggacgagc cc 72

<210> 1291

<211> 72

<212> RNA

<213> Artificial Sequence

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ccggcaucuc ca 72