SEQUENCE LISTING

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TECHNISCHE UNIVERSITAT MUNCHEN

<120> METHODS FOR THE TREATMENT OF SUBJECTS HAVING A HEPATITIS B VIRUS (HBV) INFECTION

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Ser Thr Val Pro Val Phe Asn Pro His Trp Lys Thr Pro Ser Phe Pro
65                  70                  75                  80

Asn Ile His Leu His Gln Asp Ile Ile Lys Lys Cys Glu Gln Phe Val
                85                  90                  95

Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu Gln Leu Ile Met Pro
            100                 105                 110

Ala Arg Phe Tyr Pro Lys Val Thr Lys Tyr Leu Pro Leu Asp Lys Gly
        115                 120                 125

Ile Lys Pro Tyr Tyr Pro Glu His Leu Val Asn His Tyr Phe Gln Thr
    130                 135                 140

Arg His Tyr Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys Arg
145                 150                 155                 160

Glu Thr Thr His Ser Ala Ser Phe Cys Gly Ser Pro Tyr Ser Trp Glu
                165                 170                 175

Gln Asp Leu Gln His Gly Ala Glu Ser Phe His Gln Gln Ser Ser Gly
            180                 185                 190

Ile Leu Ser Arg Pro Pro Val Gly Ser Ser Leu Gln Ser Lys His Arg
        195                 200                 205

Lys Ser Arg Leu Gly Leu Gln Ser Gln Gln Gly His Leu Ala Arg Arg
    210                 215                 220

Gln Gln Gly Arg Ser Trp Ser Ile Arg Ala Gly Phe His Pro Thr Ala
225                 230                 235                 240

Arg Arg Pro Phe Gly Val Glu Pro Ser Gly Ser Gly His Thr Thr Asn
                245                 250                 255

Phe Ala Ser Lys Ser Ala Ser Cys Leu His Gln Ser Pro Val Arg Lys
            260                 265                 270

Ala Ala Tyr Pro Ala Val Ser Thr Phe Glu Lys His Ser Ser Ser Gly
```

```
        275                 280                 285

His Ala Val Glu Phe His Asn Leu Pro Pro Asn Ser Ala Arg Ser Gln
    290                 295                 300

Ser Glu Arg Pro Val Phe Pro Cys Trp Trp Leu Gln Phe Arg Asn Ser
305                 310                 315                 320

Lys Pro Cys Ser Asp Tyr Cys Leu Ser Leu Ile Val Asn Leu Leu Glu
                325                 330                 335

Asp Trp Gly Pro Cys Ala Glu His Gly Glu His His Ile Arg Ile Pro
            340                 345                 350

Arg Thr Pro Ser Arg Val Thr Gly Gly Val Phe Leu Val Asp Lys Asn
        355                 360                 365

Pro His Asn Thr Ala Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe
    370                 375                 380

Ser Arg Gly Asn Tyr Arg Val Ser Trp Pro Lys Phe Ala Val Pro Asn
385                 390                 395                 400

Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu Ser
                405                 410                 415

Leu Asp Val Ser Ala Ala Phe Tyr His Leu Pro Leu His Pro Ala Ala
            420                 425                 430

Met Pro His Leu Leu Val Gly Ser Ser Gly Leu Ser Arg Tyr Val Ala
        435                 440                 445

Arg Leu Ser Ser Asn Ser Arg Ile Leu Asn Asn Gln His Gly Thr Met
    450                 455                 460

Pro Asp Leu His Asp Tyr Cys Ser Arg Asn Leu Tyr Val Ser Leu Leu
465                 470                 475                 480

Leu Leu Tyr Gln Thr Phe Gly Arg Lys Leu His Leu Tyr Ser His Pro
                485                 490                 495

Ile Ile Leu Gly Phe Arg Lys Ile Pro Met Gly Val Gly Leu Ser Pro
            500                 505                 510

Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val Val Arg Arg
        515                 520                 525

Ala Phe Pro His Cys Leu Ala Phe Ser Tyr Met Asp Asp Val Val Leu
```

```
    530                 535                 540

Gly Ala Lys Ser Val Gln His Leu Glu Ser Leu Phe Thr Ala Val Thr
545                 550                 555                 560

Asn Phe Leu Leu Ser Leu Gly Ile His Leu Asn Pro Asn Lys Thr Lys
                565                 570                 575

Arg Trp Gly Tyr Ser Leu Asn Phe Met Gly Tyr Val Ile Gly Cys Tyr
            580                 585                 590

Gly Ser Leu Pro Gln Glu His Ile Ile Gln Lys Ile Lys Glu Cys Phe
        595                 600                 605

Arg Lys Leu Pro Ile Asn Arg Pro Ile Asp Trp Lys Val Cys Gln Arg
    610                 615                 620

Ile Val Gly Leu Leu Gly Phe Ala Ala Pro Phe Thr Gln Cys Gly Tyr
625                 630                 635                 640

Pro Ala Leu Met Pro Leu Tyr Ala Cys Ile Gln Ser Lys Gln Ala Phe
                645                 650                 655

Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys Lys Gln Tyr Leu Asn
            660                 665                 670

Leu Tyr Pro Val Ala Arg Gln Arg Pro Gly Leu Cys Gln Val Phe Ala
        675                 680                 685

Asp Ala Thr Pro Thr Gly Trp Gly Leu Val Met Gly His Gln Arg Met
    690                 695                 700

Arg Gly Thr Phe Ser Ala Pro Leu Pro Ile His Thr Ala Glu Leu Leu
705                 710                 715                 720

Ala Ala Cys Phe Ala Arg Ser Arg Ser Gly Ala Asn Ile Ile Gly Thr
                725                 730                 735

Asp Asn Ser Val Val Leu Ser Arg Lys Tyr Thr Ser Phe Pro Trp Leu
            740                 745                 750

Leu Gly Cys Ala Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr
        755                 760                 765

Val Pro Ser Ala Leu Asn Pro Ala Asp Asp Pro Ser Arg Gly Arg Leu
    770                 775                 780

Gly Leu Ser Arg Pro Leu Leu Arg Leu Pro Phe Arg Pro Thr Thr Gly
```

785 790 795 800

Arg Thr Ser Leu Tyr Ala Asp Ser Pro Ser Val Pro Ser His Leu Pro
805 810 815

Asp Arg Val His Phe Ala Ser Pro Leu His Val Ala Trp Arg Pro Pro
820 825 830

<210> 6
<211> 389
<212> PRT
<213> Hepatitis B virus

<400> 6
Met Gly Gln Asn Leu Ser Thr Ser Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15

His Gln Leu Asp Pro Ala Phe Arg Ala Asn Thr Ala Asn Pro Asp Trp
20 25 30

Asp Phe Asn Pro Asn Lys Asp Thr Trp Pro Asp Ala Asn Lys Val Gly
35 40 45

Ala Gly Ala Phe Gly Leu Gly Phe Thr Pro Pro His Gly Gly Leu Leu
50 55 60

Gly Trp Ser Pro Gln Ala Gln Gly Ile Leu Gln Thr Leu Pro Ala Asn
65 70 75 80

Pro Pro Pro Ala Ser Thr Asn Arg Gln Ser Gly Arg Gln Pro Thr Pro
85 90 95

Leu Ser Pro Pro Leu Arg Asn Thr His Pro Gln Ala Met Gln Trp Asn
100 105 110

Ser Thr Thr Phe His Gln Thr Leu Gln Asp Pro Arg Val Arg Gly Leu
115 120 125

Tyr Phe Pro Ala Gly Gly Ser Ser Ser Gly Thr Val Asn Pro Val Leu
130 135 140

Thr Thr Ala Ser Pro Leu Ser Ser Ile Phe Ser Arg Ile Gly Asp Pro
145 150 155 160

Ala Leu Asn Met Glu Asn Ile Thr Ser Gly Phe Leu Gly Pro Leu Leu
165 170 175

Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro
180 185 190

```
Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Thr
        195                 200                 205

Thr Val Cys Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser
    210                 215                 220

Pro Thr Ser Cys Pro Pro Thr Cys Pro Gly Tyr Arg Trp Met Cys Leu
225                 230                 235                 240

Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe
                245                 250                 255

Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
            260                 265                 270

Ile Pro Gly Ser Ser Thr Thr Ser Thr Gly Pro Cys Arg Thr Cys Met
        275                 280                 285

Thr Thr Ala Gln Gly Thr Ser Met Tyr Pro Ser Cys Cys Cys Thr Lys
    290                 295                 300

Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala
305                 310                 315                 320

Phe Gly Lys Phe Leu Trp Glu Trp Ala Ser Ala Arg Phe Ser Trp Leu
                325                 330                 335

Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr
            340                 345                 350

Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu
        355                 360                 365

Tyr Ser Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys
    370                 375                 380

Leu Trp Val Tyr Ile
385
```

<210> 7
<211> 281
<212> PRT
<213> Hepatitis B virus

<400> 7

```
Met Gln Trp Asn Ser Thr Thr Phe His Gln Thr Leu Gln Asp Pro Arg
1               5                   10                  15

Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser Ser Gly Thr Val
```

```
            20                  25                  30

Asn Pro Val Leu Thr Thr Ala Ser Pro Leu Ser Ser Ile Phe Ser Arg
        35                  40                  45

Ile Gly Asp Pro Ala Leu Asn Met Glu Asn Ile Thr Ser Gly Phe Leu
    50                  55                  60

Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile
65                  70                  75                  80

Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe
                85                  90                  95

Leu Gly Gly Thr Thr Val Cys Leu Gly Gln Asn Ser Gln Ser Pro Thr
            100                 105                 110

Ser Asn His Ser Pro Thr Ser Cys Pro Pro Thr Cys Pro Gly Tyr Arg
        115                 120                 125

Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu
    130                 135                 140

Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro
145                 150                 155                 160

Val Cys Pro Leu Ile Pro Gly Ser Ser Thr Thr Ser Thr Gly Pro Cys
                165                 170                 175

Arg Thr Cys Met Thr Thr Ala Gln Gly Thr Ser Met Tyr Pro Ser Cys
            180                 185                 190

Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro
        195                 200                 205

Ser Ser Trp Ala Phe Gly Lys Phe Leu Trp Glu Trp Ala Ser Ala Arg
    210                 215                 220

Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly
225                 230                 235                 240

Leu Ser Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp
                245                 250                 255

Gly Pro Ser Leu Tyr Ser Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro
            260                 265                 270

Ile Phe Phe Cys Leu Trp Val Tyr Ile
```

275 280

<210> 8
<211> 226
<212> PRT
<213> Hepatitis B virus

<400> 8
Met Glu Asn Ile Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln
1 5 10 15

Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
20 25 30

Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Thr Thr Val Cys
35 40 45

Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser
50 55 60

Cys Pro Pro Thr Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe
65 70 75 80

Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
85 90 95

Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Ile Pro Gly
100 105 110

Ser Ser Thr Thr Ser Thr Gly Pro Cys Arg Thr Cys Met Thr Thr Ala
115 120 125

Gln Gly Thr Ser Met Tyr Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp
130 135 140

Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Gly Lys
145 150 155 160

Phe Leu Trp Glu Trp Ala Ser Ala Arg Phe Ser Trp Leu Ser Leu Leu
165 170 175

Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu
180 185 190

Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Ser Ile
195 200 205

Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
210 215 220

Tyr Ile
225

<210> 9
<211> 154
<212> PRT
<213> Hepatitis B virus

<400> 9
Met Ala Ala Arg Leu Cys Cys Gln Leu Asp Pro Ala Arg Asp Val Leu
1 5 10 15

Cys Leu Arg Pro Val Gly Ala Glu Ser Cys Gly Arg Pro Phe Ser Gly
20 25 30

Ser Leu Gly Thr Leu Ser Ser Pro Ser Pro Ser Ala Val Pro Thr Asp
35 40 45

His Gly Ala His Leu Ser Leu Arg Gly Leu Pro Val Cys Ala Phe Ser
50 55 60

Ser Ala Gly Pro Cys Ala Leu Arg Phe Thr Ser Ala Arg Arg Met Glu
65 70 75 80

Thr Thr Val Asn Ala His Gln Ile Leu Pro Lys Val Leu His Lys Arg
85 90 95

Thr Leu Gly Leu Ser Ala Met Ser Thr Thr Asp Leu Glu Ala Tyr Phe
100 105 110

Lys Asp Cys Leu Phe Lys Asp Trp Glu Glu Leu Gly Glu Glu Ile Arg
115 120 125

Leu Lys Val Phe Val Leu Gly Gly Cys Arg His Lys Leu Val Cys Ala
130 135 140

Pro Ala Pro Cys Asn Phe Phe Thr Ser Ala
145 150

<210> 10
<211> 212
<212> PRT
<213> Hepatitis B virus

<400> 10
Met Gln Leu Phe His Leu Cys Leu Ile Ile Ser Cys Ser Cys Pro Thr
1 5 10 15

Val Gln Ala Ser Lys Leu Cys Leu Gly Trp Leu Trp Gly Met Asp Ile
20 25 30

```
Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu Ser Phe Leu
        35                  40                  45

Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp Thr Ala Ser
    50                  55                  60

Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys Ser Pro His
65                  70                  75                  80

His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu Met Thr
                85                  90                  95

Leu Ala Thr Trp Val Gly Val Asn Leu Glu Asp Pro Ala Ser Arg Asp
            100                 105                 110

Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly Leu Lys Phe Arg Gln
        115                 120                 125

Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg Glu Thr Val
    130                 135                 140

Ile Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala
145                 150                 155                 160

Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro Glu Thr Thr
                165                 170                 175

Val Val Arg Arg Arg Gly Arg Ser Pro Arg Arg Arg Thr Pro Ser Pro
            180                 185                 190

Arg Arg Arg Arg Ser Gln Ser Pro Arg Arg Arg Arg Ser Gln Ser Arg
        195                 200                 205

Glu Ser Gln Cys
    210


<210> 11
<211> 843
<212> PRT
<213> Hepatitis B virus

<400> 11
Met Pro Leu Ser Tyr Gln His Phe Arg Lys Leu Leu Leu Leu Asp Asp
1               5                   10                  15

Glu Ala Gly Pro Leu Glu Glu Glu Leu Pro Arg Leu Ala Asp Glu Gly
            20                  25                  30

Leu Asn Arg Arg Val Ala Glu Asp Leu Asn Leu Gly Asn Leu Asn Val
```

```
        35                  40                  45

Ser Ile Pro Trp Thr His Lys Val Gly Asn Phe Thr Gly Leu Tyr Ser
    50                  55                  60

Ser Thr Val Pro Val Phe Asn Pro Glu Trp Gln Thr Pro Ser Phe Pro
65                  70                  75                  80

His Ile His Leu Gln Glu Asp Ile Ile Asn Arg Cys Gln Gln Tyr Val
                85                  90                  95

Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu Lys Leu Ile Met Pro
            100                 105                 110

Ala Arg Phe Tyr Pro Asn Leu Thr Lys Tyr Leu Pro Leu Asp Lys Gly
        115                 120                 125

Ile Lys Pro Tyr Tyr Pro Glu His Ala Val Asn His Tyr Phe Lys Thr
    130                 135                 140

Arg His Tyr Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys Arg
145                 150                 155                 160

Glu Thr Thr Arg Ser Ala Ser Phe Cys Gly Ser Pro Tyr Ser Trp Glu
                165                 170                 175

Gln Glu Leu Gln His Gly Arg Leu Val Phe Gln Thr Ser Thr Arg His
            180                 185                 190

Gly Asp Lys Ser Phe Cys Ser Gln Ser Ser Gly Ile Leu Ser Arg Ser
        195                 200                 205

Pro Val Gly Pro Cys Val Arg Ser Gln Leu Lys Gln Ser Arg Leu Gly
    210                 215                 220

Leu Gln Pro Gln Gln Gly Ser Leu Ala Arg Gly Lys Ser Gly Arg Ser
225                 230                 235                 240

Gly Ser Ile Arg Ala Arg Val His Pro Thr Thr Arg Arg Ser Phe Gly
                245                 250                 255

Val Glu Pro Ser Gly Ser Gly His Ile Asp Asn Ser Ala Ser Ser Thr
            260                 265                 270

Ser Ser Cys Leu His Gln Ser Ala Val Arg Lys Thr Ala Tyr Ser His
        275                 280                 285

Leu Ser Thr Ser Lys Arg Gln Ser Ser Ser Gly His Ala Val Glu Leu
```

```
    290                 295                 300

His His Ile Pro Pro Ser Ser Ala Thr Pro Gln Ser Lys Gly Pro Ile
305                 310                 315                 320

Leu Ser Cys Trp Trp Leu Gln Phe Arg Asn Ser Lys Pro Cys Ser Asp
                325                 330                 335

Tyr Cys Leu Ser His Ile Val Asn Leu Leu Glu Asp Trp Gly Pro Cys
            340                 345                 350

Thr Glu His Gly Glu His Asn Ile Arg Ile Pro Arg Thr Pro Ala Arg
        355                 360                 365

Val Thr Gly Gly Val Phe Leu Val Asp Lys Asn Pro His Asn Thr Thr
    370                 375                 380

Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Ser Thr
385                 390                 395                 400

His Val Ser Trp Pro Lys Phe Ala Val Pro Asn Leu Gln Ser Leu Thr
                405                 410                 415

Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala
            420                 425                 430

Ala Phe Tyr His Ile Pro Leu His Pro Ala Ala Met Pro His Leu Leu
        435                 440                 445

Val Gly Ser Ser Gly Leu Pro Arg Tyr Val Ala Arg Leu Ser Ser Thr
    450                 455                 460

Ser Arg Asn Ile Asn Tyr Gln His Gly Thr Met Gln Asp Leu His Asp
465                 470                 475                 480

Ser Cys Ser Arg His Leu Tyr Val Ser Leu Leu Leu Leu Tyr Lys Thr
                485                 490                 495

Phe Gly Arg Lys Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe
            500                 505                 510

Arg Lys Ile Pro Met Gly Val Gly Leu Ser Pro Phe Leu Leu Ala Gln
        515                 520                 525

Phe Thr Ser Ala Ile Cys Ser Val Val Arg Arg Ala Phe Pro His Cys
    530                 535                 540

Leu Ala Phe Ser Tyr Met Asp Asp Val Val Leu Gly Ala Lys Ser Val
```

```
545                 550                 555                 560

Gln His Leu Glu Ser Leu Phe Thr Ala Val Thr Asn Phe Leu Leu Ser
                565                 570                 575

Leu Gly Ile His Leu Asn Pro Asn Lys Thr Lys Arg Trp Gly Tyr Ser
            580                 585                 590

Leu Asn Phe Met Gly Tyr Val Ile Gly Ser Trp Gly Thr Leu Pro Gln
        595                 600                 605

Asp His Ile Val Leu Lys Ile Lys Gln Cys Phe Arg Lys Leu Pro Val
    610                 615                 620

Asn Arg Pro Ile Asp Trp Lys Val Cys Gln Arg Ile Val Gly Leu Leu
625                 630                 635                 640

Gly Phe Ala Ala Pro Phe Thr Gln Cys Gly Tyr Pro Ala Leu Met Pro
                645                 650                 655

Leu Tyr Ala Cys Ile Gln Ser Lys Gln Ala Phe Thr Phe Ser Pro Thr
            660                 665                 670

Tyr Lys Ala Phe Leu Cys Lys Gln Tyr Leu Asn Leu Tyr Pro Val Ala
        675                 680                 685

Arg Gln Arg Ser Gly Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr
    690                 695                 700

Gly Trp Gly Leu Ala Ile Gly His Arg Arg Met Arg Gly Thr Phe Val
705                 710                 715                 720

Ala Pro Leu Pro Ile His Thr Ala Glu Leu Leu Ala Ala Cys Phe Ala
                725                 730                 735

Arg Ser Arg Ser Gly Ala Lys Leu Ile Gly Thr Asp Asn Ser Val Val
            740                 745                 750

Leu Ser Arg Lys Tyr Thr Ser Phe Pro Trp Leu Leu Gly Cys Ala Ala
        755                 760                 765

Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro Ser Ala Leu
    770                 775                 780

Asn Pro Ala Asp Asp Pro Ser Arg Gly Arg Leu Gly Leu Tyr Arg Pro
785                 790                 795                 800

Leu Leu His Leu Pro Phe Arg Pro Thr Thr Gly Arg Thr Ser Leu Tyr
```

805 810 815

Ala Val Ser Pro Ser Val Pro Ser His Leu Pro Asp Arg Val His Phe
820 825 830

Ala Ser Pro Leu His Val Ala Trp Arg Pro Pro
835 840

<210> 12
<211> 400
<212> PRT
<213> Hepatitis B virus

<400> 12
Met Gly Gly Trp Ser Ser Lys Pro Arg Gln Gly Met Gly Thr Asn Leu
1 5 10 15

Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
20 25 30

Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
35 40 45

Lys Asp His Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Ala Phe Gly
50 55 60

Pro Gly Phe Thr Pro Pro His Gly Gly Leu Leu Gly Trp Ser Pro Gln
65 70 75 80

Ala Gln Gly Thr Leu Thr Thr Val Pro Val Ala Pro Pro Pro Ala Ser
85 90 95

Thr Asn Arg Gln Ser Gly Arg Gln Pro Thr Pro Ile Ser Pro Pro Leu
100 105 110

Arg Asp Ser His Pro Gln Ala Met Gln Trp Asn Ser Thr Thr Phe His
115 120 125

Gln Ala Leu Leu His Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala Gly
130 135 140

Gly Ser Ser Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser Pro
145 150 155 160

Ile Ser Ser Ile Phe Ser Arg Thr Gly Asp Pro Ala Pro Asn Met Glu
165 170 175

Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly
180 185 190

```
Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser
        195                 200                 205

Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly
    210                 215                 220

Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro
225                 230                 235                 240

Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile
                245                 250                 255

Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu
            260                 265                 270

Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser
        275                 280                 285

Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln Gly
    290                 295                 300

Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn
305                 310                 315                 320

Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu
                325                 330                 335

Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro
            340                 345                 350

Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val
        355                 360                 365

Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser
    370                 375                 380

Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
385                 390                 395                 400
```

<210> 13
<211> 210
<212> PRT
<213> Hepatitis B virus

<400> 13

```
Met Gly Leu Gly Tyr Trp Pro Ser Pro His Ala Trp Asn Leu Cys Gly
1               5                   10                  15

Ser Ser Ala Asp Pro Tyr Cys Gly Thr Pro Ser Ser Leu Phe Cys Ser
```

```
            20                  25                  30

Gln Pro Val Trp Ser Glu Thr Asp Arg Asn Gly Gln Leu Cys Cys Ser
        35                  40                  45

Leu Ser Glu Ile His Leu Leu Ser Met Ala Ala Arg Val Cys Cys Gln
    50                  55                  60

Leu Asp Pro Ala Arg Asp Val Leu Cys Leu Arg Pro Val Gly Ala Glu
65                  70                  75                  80

Ser Arg Gly Arg Pro Ile Ser Gly Pro Phe Gly Ser Leu Pro Ser Pro
                85                  90                  95

Ser Ser Ser Ala Val Pro Ala Asp His Gly Ala His Leu Ser Leu Arg
            100                 105                 110

Gly Leu Pro Val Cys Ala Phe Ser Ser Ala Gly Pro Cys Ala Leu Arg
        115                 120                 125

Phe Thr Ser Ala Arg Arg Met Glu Thr Thr Val Asn Ala His Gln Val
    130                 135                 140

Leu Pro Lys Val Leu Tyr Lys Arg Thr Leu Gly Leu Ser Ala Met Ser
145                 150                 155                 160

Thr Thr Asp Leu Glu Ala Tyr Phe Lys Asp Cys Leu Phe Lys Asp Trp
                165                 170                 175

Glu Glu Leu Gly Glu Glu Ile Arg Leu Met Ile Phe Val Leu Gly Gly
            180                 185                 190

Cys Arg His Lys Leu Val Cys Ser Pro Ala Pro Cys Asn Phe Phe Thr
        195                 200                 205

Ser Ala
    210


<210> 14
<211> 389
<212> PRT
<213> Hepatitis B virus

<400> 14
Met Gly Gln Asn Leu Ser Thr Ser Asn Pro Leu Gly Phe Phe Pro Asp
1               5                   10                  15

His Gln Leu Asp Pro Ala Phe Arg Ala Asn Thr Ala Asn Pro Asp Trp
            20                  25                  30
```

```
Asp Phe Asn Pro Asn Lys Asp Thr Trp Pro Asp Ala Asn Lys Val Gly
        35                  40                  45

Ala Gly Ala Phe Gly Leu Gly Phe Thr Pro Pro His Gly Gly Leu Leu
    50                  55                  60

Gly Trp Ser Pro Gln Ala Gln Gly Ile Leu Gln Thr Leu Pro Ala Asn
65                  70                  75                  80

Pro Pro Pro Ala Ser Thr Asn Arg Gln Ser Gly Arg Gln Pro Thr Pro
                85                  90                  95

Leu Ser Pro Pro Leu Arg Asn Thr His Pro Gln Ala Met Gln Trp Asn
            100                 105                 110

Ser Thr Thr Phe His Gln Thr Leu Gln Asp Pro Arg Val Arg Gly Leu
        115                 120                 125

Tyr Phe Pro Ala Gly Gly Ser Ser Ser Gly Thr Val Asn Pro Val Leu
    130                 135                 140

Thr Thr Ala Ser Pro Leu Ser Ser Ile Phe Ser Arg Ile Gly Asp Pro
145                 150                 155                 160

Ala Leu Asn Met Glu Asn Ile Thr Ser Gly Phe Leu Gly Pro Leu Leu
                165                 170                 175

Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro
            180                 185                 190

Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Thr
        195                 200                 205

Thr Val Cys Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser
    210                 215                 220

Pro Thr Ser Cys Pro Pro Thr Cys Pro Gly Tyr Arg Trp Met Cys Leu
225                 230                 235                 240

Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe
                245                 250                 255

Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
            260                 265                 270

Ile Pro Gly Ser Ser Thr Thr Ser Thr Gly Pro Cys Arg Thr Cys Met
        275                 280                 285
```

```
Thr Thr Ala Gln Gly Thr Ser Met Tyr Pro Ser Cys Cys Cys Thr Lys
    290                 295                 300

Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala
305                 310                 315                 320

Phe Gly Lys Phe Leu Trp Glu Trp Ala Ser Ala Arg Phe Ser Trp Leu
                325                 330                 335

Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr
            340                 345                 350

Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu
        355                 360                 365

Tyr Ser Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys
    370                 375                 380

Leu Trp Val Tyr Ile
385
```

<210> 15
<211> 183
<212> PRT
<213> Hepatitis B virus

<400> 15

```
Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu
1               5                   10                  15

Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp
            20                  25                  30

Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys
        35                  40                  45

Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu
    50                  55                  60

Leu Met Thr Leu Ala Thr Trp Val Gly Val Asn Leu Glu Asp Pro Ala
65                  70                  75                  80

Ser Arg Asp Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly Leu Lys
                85                  90                  95

Phe Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg
            100                 105                 110

Glu Thr Val Ile Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr
```

115 120 125

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Val Gly Ala Phe Gly Pro Gly Leu Thr Pro Pro His Gly Gly Ile Leu
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Gly Trp Ser Pro Gln Ala Gln Gly Ile Leu Thr Thr Val Ser Thr Ile
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Pro Pro Pro Ala Ser Thr Asn Arg Gln Ser Gly Arg Gln Pro Thr Pro
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Ile Ser Pro Pro Leu Arg Asp Ser His Pro Gln Ala Met Gln Trp Asn
            100                 105                 110

Ser Thr Ala Leu His Gln Ala Leu Gln Asp Pro Arg Val Arg Gly Leu
        115                 120                 125

Tyr Leu Pro Ala Gly Gly Ser Ser Ser Gly Thr Val Asn Pro Ala Pro
    130                 135                 140

Asn Ile Ala Ser His Ile Ser Ser Ile Ser Ala Arg Thr Gly Asp Pro
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Val Thr Ile Met Glu Asn Ile Thr Ser Gly Phe Leu Gly Pro Leu Leu
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Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro
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Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ser
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Pro Val Cys Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser
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Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu
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Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe
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Pro Thr Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala
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Phe Ala Lys Tyr Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu
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Val Trp Leu Ser Ala Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu
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Leu Trp Val Tyr Ile
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Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu
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Ser Arg Asp Leu Val Val Asn Tyr Val Asn Thr Asn Met Gly Leu Lys
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Glu Thr Val Leu Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr
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Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro
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Glu Thr Thr Val Val Arg Arg Arg Asp Arg Gly Arg Ser Pro Arg Arg
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gaattgtcag ttccgatgag ctttgctcca gaccggctgc gagcaaaaca agcggctagg 1920

agttccgcag tatggatcgg cagaggagcc acaaaggttc cacgcatgcg ctgatggcct 1980

atggctaagc cccagccagt gggggttgcg tcagcaaaca cttggcacag accaggccgt 2040

tgccgagcaa cggggtaaag gttcatgtac tgtttactta gaaaggcctt gtaagttggc 2100

gagaaagtga aagcctgttt agcttgtata catgcataca aaggcattaa ggcaggatat 2160

ccacattgtg taaatggagc agcaaagccc aaaagaccca caattctttg acatactttc 2220

caatcaatag gcctgttaac aggaagtttt ctaaaacagt gtttgatctt ttgtacaata 2280

tgatcctgtg gcaaagttcc ccaacttcca attatgtagc ccatgaagtt tagggaataa 2340

ccccatcttt ttgttttgtt agggtttaaa tgtataccca gagacaaaag aaaattggta 2400

acagcggtat aaagggactc acgatgctgt acagacttgg cccccaatac cacatcatcc 2460

atatagctga aagccaaaca gtgggggaaa gccctacgaa ccactgaaca aatggcacta 2520

gtaaactgag ccaagagaaa cggactgagg cccactccca taggtatttt gcgaaagccc 2580

aggacgatgg gatgggaata caggtgcaat ttccatccgt aggttttgta cagcaacatg 2640

agggaaactt agagttgcct tgagcaggag tcgtgcaggt tttgcatggt cccgtactgg 2700

ttgttgttga tcctggaatt agaggacaaa cgggcaacat accttgataa tccagaagaa 2760

ccaataagaa gatgaggcat agcagcagga tgaagaggaa tatgataaaa cgccgcagac 2820

acatccagcg ataaccagga caaattggag gacaggaggt tggtgagtga ttggaggttg 2880

gggactgcga attttggcca agacacacgg gtgatccccc tagaaaattg agagaagtcc 2940

accacgagtc tagactctgc ggtattgtga ggattcttgt caacaagaaa aaccccgcct 3000

gtaacacgag caggggtcct aggaatcctg atgtgatgtt ctccatgatc gtcacagggt 3060

ccccagtcct cgcggagatt gacgagatgt gagaggcaat attcggagca gggtttactg 3120

ttcctgaact ggagccacca gcaggaagat acagacccct gactctggga tcctgcagag 3180

cttggtgcaa ggcagtggaa 3200

<210> 22

<211> 226
<212> PRT
<213> Hepatitis B virus

<400> 22
Met Glu Asn Ile Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln
1   5   10   15

Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
            20   25   30

Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Thr Thr Val Cys
        35   40   45

Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser
    50   55   60

Cys Pro Pro Thr Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe
65   70   75   80

Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
                85   90   95

Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Ile Pro Gly
            100   105   110

Ser Ser Thr Thr Ser Thr Gly Pro Cys Arg Thr Cys Met Thr Thr Ala
        115   120   125

Gln Gly Thr Ser Met Tyr Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp
    130   135   140

Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Gly Lys
145   150   155   160

Phe Leu Trp Glu Trp Ala Ser Ala Arg Phe Ser Trp Leu Ser Leu Leu
                165   170   175

Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu
            180   185   190

Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Ser Ile
        195   200   205

Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
    210   215   220

Tyr Ile
225

<210> 23
<211> 247
<212> PRT
<213> Hepatitis B virus

<400> 23
Met Glu Asn Ile Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln
1   5   10   15

Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
            20   25   30

Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ser Pro Val Cys
        35   40   45

Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser
    50   55   60

Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe
65   70   75   80

Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
                85   90   95

Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Ile Pro Gly
            100   105   110

Ser Thr Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Thr Pro Ala
        115   120   125

Gln Gly Asn Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Thr Asp
    130   135   140

Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Lys
145   150   155   160

Tyr Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu
                165   170   175

Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu
            180   185   190

Ser Ala Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Ser Ile
        195   200   205

Val Ser Pro Phe Ile Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
    210   215   220

Tyr Ile Gly Ser Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly

225 230 235 240

Asp Val Glu Glu Asn Pro Gly
245

<210> 24
<211> 149
<212> PRT
<213> Hepatitis B virus

<400> 24
Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu
1 5 10 15

Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp
20 25 30

Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys
35 40 45

Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu
50 55 60

Leu Met Thr Leu Ala Thr Trp Val Gly Val Asn Leu Glu Asp Pro Ala
65 70 75 80

Ser Arg Asp Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly Leu Lys
85 90 95

Phe Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg
100 105 110

Glu Thr Val Ile Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr
115 120 125

Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro
130 135 140

Glu Thr Thr Val Val
145

<210> 25
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 25
ugugaagcga agugcacacu u 21

<210> 26
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 26
aggugaaaaa guugcauggu guu 23

<210> 27
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 27
gugugcacuu cgcuucaca 19

<210> 28
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 28
caccaugcaa cuuuuucacc u 21

<210> 29
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 29
gugugcacuu cgcuucaca 19

<210> 30
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 30

ugugaagcga agugcacacu u 21

<210> 31
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 31
caccaugcaa cuuuuucacc u 21

<210> 32
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 32
aggugaaaaa guugcauggu guu 23

<210> 33
<211> 16
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
RFGF peptide

<400> 33
Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
1 5 10 15

<210> 34
<211> 11
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown:
RFGF analogue peptide

<400> 34
Ala Ala Leu Leu Pro Val Leu Leu Ala Ala Pro
1 5 10

<210> 35
<211> 13
<212> PRT
<213> Human immunodeficiency virus

<400> 35
Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln

1 5 10

<210> 36
<211> 16
<212> PRT
<213> Drosophila sp.

<400> 36
Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
1 5 10 15

<210> 37
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 37
gugugcacuu cgcuucaca 19

<210> 38
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 38
caccaugcaa cuuuuucacc u 21

<210> 39
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 39
gtgtgcactt cgcttcaca 19

<210> 40
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 40
caccatgcaa ctttttcacc t 21

<210> 41
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 41
gagtgtggat tcgcactcc 19

<210> 42
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 42
gaggcgaggg agttcttct 19

<210> 43
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 43
tcaccagcac catgcaac 18

<210> 44
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 44
aagccaccca aggcacag 18

<210> 45
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 45
accaactgct tagccc 16

<210> 46
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 46
ccacgacgga cacatt 16

<210> 47
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 47
aguuauaugg augauguggu a 21

<210> 48
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 48
ggaugugucu gcggcguuuu a 21

<210> 49
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 49
acucguggug gacuucucuc a 21

<210> 50
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 50

acucguggug gacuucucuc a 21

<210> 51
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
oligonucleotide

<400> 51
acucguggug gacuuctcuc a 21

<210> 52
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 52
acucguggug gacuucucuc a 21

<210> 53
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 53
ucguggugga cuucucuca 19

<210> 54
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 54
acucguggug gacuucucuc a 21

<210> 55
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 55
acucguggug gacuucucuc a 21

<210> 56
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 56
acucguggug gacuucucuc a 21

<210> 57
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 57
acucguggug gacuucucuc a 21

<210> 58
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 58
gugguggacu ucucuca 17

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

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 59
acucguggug gacuucucuc a 21

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

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 60
ucguggugga cuucucucau u 21

<210> 61
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 61
acucguggug gacuucucuc a 21

<210> 62
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 62
acucguggug gacuucucuc a 21

<210> 63
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 63
acucguggug gacuucucuc a 21

<210> 64
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 64
acucguggug gacuucucuc a 21

<210> 65
<211> 19
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 65
ucguggugga cuucucuca 19

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

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 66
acucguggug gacuucucuc a 21

<210> 67
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 67
acucguggug gacuucucuc a 21

<210> 68
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 68
acucguggug gacuucucuc a 21

<210> 69
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 69
uauuuccuag gguacaa 17

<210> 70
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 70
acucguggug gacuucucuc a 21

<210> 71
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 71
ucguggugga cuucucuca 19

<210> 72
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 72
acucguggug gacuucucuc a 21

<210> 73
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 73
acucguggug gacuucucuc a 21

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

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 74
acucguggug gacuucucuc a 21

<210> 75

<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 75
acucguggug gacuucucuc a 21

<210> 76
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 76
acucguggug gacuucucuc a 21

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

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 77
acucguggug gacuucucuc a 21

<210> 78
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 78
acucguggug gacuucucuc a 21

<210> 79
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 79
acucguggug gacuucucuc a 21

<210> 80
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 80
acucguggug gacuucucuc a 21

<210> 81
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 81
acucguggug gacuucucuc a 21

<210> 82
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 82
acucguggug gacuucucuc a 21

<210> 83
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 83
acucguggug gacuucucuc a 21

<210> 84
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 84
acucguggug gacuucucuc a 21

<210> 85
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
oligonucleotide

<400> 85
acucguggug gacuuctcuc a 21

<210> 86
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 86
acucguggug gacuucucuc a 21

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

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
oligonucleotide

<400> 87
acucguggug gacuuctcuc a 21

<210> 88
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 88
acucguggug gacuucucuc a 21

<210> 89
<211> 21
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 89
acucguggug gacuucucuc a 21

<210> 90
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
oligonucleotide

<400> 90
acucguggug gacuuctcuc a 21

<210> 91
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 91
acucguggug gacuucucuc a 21

<210> 92
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
oligonucleotide

<400> 92
acucguggug gacuuctcuc a 21

<210> 93
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 93
acucguggug gacuucucuc a 21

<210> 94
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 94
gugguggacu ucucucaauu u 21

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

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 95
gugguggacu ucucucaauu u 21

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

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 96
gugguggacu ucucucaauu u 21

<210> 97
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 97
uggacuucuc ucaauuu 17

<210> 98
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 98
gugguggacu ucucucaauu u 21

<210> 99
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 99
gguggacuuc ucucaauuuu u 21

<210> 100
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 100
gugguggacu ucucucaauu u 21

<210> 101
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 101
gugguggacu ucucucaauu u 21

<210> 102
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 102
gugguggacu ucucucaauu u 21

<210> 103
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 103
gguggacuuc ucucaauuu 19

<210> 104
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 104
gugguggacu ucucucaauu u 21

<210> 105
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 105
gguggacuuc ucucaauuu 19

<210> 106
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 106
gugguggacu ucucucaauu u 21

<210> 107
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 107
gugguggacu ucucucaauu u 21

<210> 108
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 108
uggacuucuc ucaauuu 17

<210> 109
<211> 21
<212> RNA
<213> Artificial Sequence

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<210> 630
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<210> 647
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<210> 651
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<210> 655
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<210> 660
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<210> 661
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<210> 662
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<210> 663
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(abasic 2'-OMe furanose)

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<210> 674
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<210> 675
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<210> 676
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oligonucleotide

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(abasic 2'-OMe furanose)

<400> 681
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<210> 682
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(abasic 2'-OMe furanose)

<400> 687
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<210> 688
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<210> 692
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<210> 693
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<210> 694
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<210> 695
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<210> 696
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<400> 696
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<210> 697
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<400> 697
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<210> 698
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<210> 699
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<400> 700
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<210> 701
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<400> 701
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<210> 702
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<210> 703
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<210> 706
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<210> 708

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<400> 708
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<210> 709
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<210> 710
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<210> 713
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<400> 713
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<210> 718
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<210> 719
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<210> 720
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<210> 723
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<210> 724
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<400> 724
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<210> 725
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<400> 725
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<210> 726
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<210> 727
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oligonucleotide

<400> 727

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<210> 732
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oligonucleotide

<400> 732
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<210> 733
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<400> 733
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<210> 734
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oligonucleotide

<400> 735
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<210> 736
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oligonucleotide

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<210> 737
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<400> 737
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<210> 738
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<400> 738
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oligonucleotide

<400> 740
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<210> 741
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oligonucleotide

<400> 741
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<210> 742
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<220>
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<400> 742
aaauugagag aaguccacca cga 23

<210> 743
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<400> 743
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<210> 744
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<400> 744
aaauugagag aaguccacc 19

<210> 745
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<400> 745
aaauugagag aaguccacca cga 23

<210> 746
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<220>
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oligonucleotide

<400> 746
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<210> 747
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oligonucleotide

<400> 747
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<210> 748
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oligonucleotide

<400> 748
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<210> 749
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oligonucleotide

<400> 749
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<210> 750
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oligonucleotide

<400> 750
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<210> 751
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oligonucleotide

<400> 751
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<210> 752
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oligonucleotide

<400> 752
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<210> 753
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oligonucleotide

<400> 753
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<210> 754
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oligonucleotide

<400> 754
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<210> 755
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oligonucleotide

<400> 755
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<210> 756
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oligonucleotide

<400> 756
aaauugagag aaguccacca cga 23

<210> 757
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oligonucleotide

<400> 757
aaauugagag aaguccaccu u 21

<210> 758
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oligonucleotide

<400> 758
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<210> 759
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oligonucleotide

<400> 759
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<210> 760
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oligonucleotide

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<210> 833
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<210> 837
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<210> 838
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<210> 839
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<210> 840
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oligonucleotide

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<210> 842
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<210> 843
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oligonucleotide

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<210> 844

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oligonucleotide

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<210> 845
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<210> 846
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oligonucleotide

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<210> 848
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oligonucleotide

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<210> 849
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oligonucleotide

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<210> 850
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<210> 851
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oligonucleotide

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<210> 852
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oligonucleotide

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<210> 853
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oligonucleotide

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<210> 854
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oligonucleotide

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<210> 855
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oligonucleotide

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<210> 856
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oligonucleotide

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<210> 857
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oligonucleotide

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<210> 858
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<210> 859
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<210> 860
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oligonucleotide

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<210> 861
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oligonucleotide

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<210> 862
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oligonucleotide

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<210> 863
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oligonucleotide

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<210> 864
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oligonucleotide

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<210> 865
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oligonucleotide

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<210> 866
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oligonucleotide

<400> 866
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<210> 867
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oligonucleotide

<220>
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oligonucleotide

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ugagagaagt ccaccacgag ucu 23

<210> 868
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<220>
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oligonucleotide

<220>
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oligonucleotide

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<210> 869
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oligonucleotide

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oligonucleotide

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<210> 870
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oligonucleotide

<220>
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<210> 974
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<210> 1027
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<210> 1028
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<210> 1038
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<210> 1040
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<210> 1048
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<210> 1049
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<210> 1051
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oligonucleotide

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<210> 1060
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<210> 1061
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<210> 1062
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<210> 1063
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<210> 1064
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oligonucleotide

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<210> 1065
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<210> 1074
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<210> 1081
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<220>
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oligonucleotide

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<210> 1082
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<210> 1083
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<210> 1084

<211> 21
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oligonucleotide

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<210> 1085
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oligonucleotide

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<210> 1086
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oligonucleotide

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<210> 1087
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<210> 1088
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oligonucleotide

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<210> 1089
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<210> 1090
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<210> 1091
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<210> 1092
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<210> 1093
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<210> 1094
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oligonucleotide

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<210> 1095
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<210> 1096
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oligonucleotide

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<210> 1097
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oligonucleotide

<400> 1097
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<210> 1098
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<210> 1099
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oligonucleotide

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<210> 1101
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<220>
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oligonucleotide

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<210> 1102
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<220>
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oligonucleotide

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<210> 1103
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<220>
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oligonucleotide

<400> 1103

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<210> 1104
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<220>
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oligonucleotide

<400> 1104
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<210> 1105
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<220>
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oligonucleotide

<400> 1105
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<210> 1106
<211> 21
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<220>
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<400> 1106
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<210> 1107
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<220>
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<400> 1107
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<210> 1108
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<220>
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oligonucleotide

<400> 1108
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<210> 1109
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<220>
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<400> 1109
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<210> 1110
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<220>
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<210> 1111
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<220>
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<210> 1112
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

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<210> 1113
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<220>
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<400> 1113
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<210> 1114
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<220>
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<400> 1114
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<210> 1115
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<220>
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<400> 1115
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<210> 1116
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<220>
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<400> 1116
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<210> 1117
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<220>
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<400> 1117
uaggugaagc gaagugcaca cgg 23

<210> 1118
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<220>
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oligonucleotide

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<210> 1119
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<220>
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<400> 1119
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<210> 1120
<211> 23
<212> RNA
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<210> 1121
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<400> 1121
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<210> 1122
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<210> 1123
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<210> 1124
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<210> 1125
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<212> RNA
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<210> 1126
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<220>
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<210> 1127
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<220>
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<210> 1128
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<220>
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<210> 1129
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<212> RNA
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<210> 1130
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<210> 1131
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<210> 1132
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<210> 1133
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<210> 1134
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<400> 1134
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<210> 1135
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<210> 1136
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<210> 1137
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<210> 1138
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<220>
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<210> 1139
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<210> 1140
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<210> 1141
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<210> 1142
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oligonucleotide

<400> 1142
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<210> 1143
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<210> 1144
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<210> 1145
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<210> 1146
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oligonucleotide

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<210> 1147
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oligonucleotide

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<210> 1148

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oligonucleotide

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<210> 1149
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oligonucleotide

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<210> 1150
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<210> 1151
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<210> 1152
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<210> 1153
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oligonucleotide

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<210> 1154
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oligonucleotide

<400> 1154
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<210> 1155
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oligonucleotide

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<210> 1156
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<210> 1157
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oligonucleotide

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<210> 1158
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oligonucleotide

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<210> 1159
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oligonucleotide

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<210> 1160
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oligonucleotide

<400> 1160
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<210> 1161
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<210> 1162
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oligonucleotide

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<210> 1163
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oligonucleotide

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<210> 1164
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oligonucleotide

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cgugugcacu ucgcuucacc u 21

<210> 1165
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oligonucleotide

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<210> 1166
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<210> 1167
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oligonucleotide

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<210> 1168
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<210> 1169
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<210> 1171
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<210> 1172
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<210> 1173
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oligonucleotide

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ccccgucugu gccuucucau a 21

<210> 1174
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<210> 1175
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oligonucleotide

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<210> 1176
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oligonucleotide

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caccagcacc augcaacuuu u 21

<210> 1177
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oligonucleotide

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caccaugcaa cuuuuucacc u 21

<210> 1178
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oligonucleotide

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<210> 1179
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<210> 1180
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<210> 1181
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oligonucleotide

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<210> 1182
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oligonucleotide

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<210> 1183
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<210> 1184
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<210> 1188
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oligonucleotide

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<210> 1189
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<210> 1190
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<210> 1192
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<210> 1194
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<210> 1196
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<210> 1198
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<210> 1202
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<210> 1205
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<210> 1206
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<210> 1207
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<210> 1208
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<210> 1209
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<210> 1210
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<210> 1211
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<210> 1212

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<210> 1213
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<210> 1214
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<210> 1215
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<210> 1216
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<210> 1217
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<210> 1218
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<210> 1219
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<210> 1220
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<210> 1221
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<210> 1222
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oligonucleotide

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<210> 1223
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oligonucleotide

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<210> 1224
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<210> 1225
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<210> 1226
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oligonucleotide

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<210> 1227
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<210> 1228
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oligonucleotide

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<210> 1229
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<210> 1230
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oligonucleotide

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<210> 1231
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oligonucleotide

<400> 1231

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<210> 1232
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oligonucleotide

<400> 1232
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<210> 1233
<211> 23
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oligonucleotide

<400> 1233
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<210> 1234
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oligonucleotide

<400> 1234
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<210> 1235
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oligonucleotide

<400> 1235
aacaaacagu cuuugaagua ugc 23

<210> 1236
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oligonucleotide

<400> 1236
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<210> 1237
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oligonucleotide

<400> 1237
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<210> 1238
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oligonucleotide

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<210> 1239
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oligonucleotide

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<210> 1240
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oligonucleotide

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<210> 1241
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oligonucleotide

<400> 1241
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<210> 1242
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<210> 1243
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<210> 1244
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<210> 1245
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<210> 1246
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oligonucleotide

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<210> 1247
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<210> 1248
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oligonucleotide

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<210> 1249
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oligonucleotide

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<210> 1250
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<210> 1251
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oligonucleotide

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<210> 1252
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oligonucleotide

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<210> 1253
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oligonucleotide

<400> 1253
gucugugccu ucucaucua 19

<210> 1254
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<212> RNA
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<400> 1254
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<210> 1255
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oligonucleotide

<400> 1255
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<210> 1256
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oligonucleotide

<400> 1256
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<210> 1257
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<220>
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oligonucleotide

<400> 1257
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<210> 1258
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<220>
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oligonucleotide

<400> 1258
ugugcacuuc gcuucaccuc u 21

<210> 1259
<211> 21
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<210> 1260
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<210> 1261
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<210> 1262
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oligonucleotide

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<210> 1263
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<210> 1264
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oligonucleotide

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<210> 1265
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oligonucleotide

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<210> 1266
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<213> Artificial Sequence

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oligonucleotide

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<210> 1267
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oligonucleotide

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<210> 1268
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<210> 1269
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oligonucleotide

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aaaaguugca uggugcuggu guu 23

<210> 1270
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oligonucleotide

<400> 1270
aaaaguugca uggugcuggu guu 23

<210> 1271
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<212> RNA
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oligonucleotide

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<210> 1272
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oligonucleotide

<400> 1272
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<210> 1273
<211> 19
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oligonucleotide

<400> 1273
gucugugccu ucucaucua 19

<210> 1274
<211> 19
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oligonucleotide

<400> 1274
gucugugccu ucucaucua 19

<210> 1275
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oligonucleotide

<400> 1275
gugugcacuu cgcuucaca 19

<210> 1276

<211> 19
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oligonucleotide

<400> 1276
gugugcacuu cgcuucaca 19

<210> 1277
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oligonucleotide

<400> 1277
ugugcacuuc gcuucaccuc u 21

<210> 1278
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oligonucleotide

<400> 1278
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<210> 1279
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oligonucleotide

<400> 1279
caccagcacc augcaacuuu u 21

<210> 1280
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<220>
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oligonucleotide

<400> 1280
caccagcacc augcaacuuu u 21

<210> 1281
<211> 21
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<220>
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oligonucleotide

<400> 1281
caccaugcaa cuuuuucacc u 21

<210> 1282
<211> 21
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oligonucleotide

<400> 1282
caccaugcaa cuuuuucacc u 21

<210> 1283
<211> 21
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<220>
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oligonucleotide

<400> 1283
uagaugagaa ggcacagacu u 21

<210> 1284
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<220>
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oligonucleotide

<400> 1284
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<210> 1285
<211> 21
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oligonucleotide

<400> 1285
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<210> 1286
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oligonucleotide

<400> 1286
ugugaagcga agugcacacu u 21

<210> 1287
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<220>
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oligonucleotide

<400> 1287
agaggugaag cgaagugcac auu 23

<210> 1288
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<220>
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oligonucleotide

<400> 1288
agaggugaag cgaagugcac auu 23

<210> 1289
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<220>
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oligonucleotide

<400> 1289
aaaaguugca uggugcuggu guu 23

<210> 1290
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oligonucleotide

<400> 1290
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<210> 1291
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<220>
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oligonucleotide

<400> 1291
aggugaaaaa guugcauggu guu 23

<210> 1292
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oligonucleotide

<400> 1292
aggugaaaaa guugcauggu guu 23

<210> 1293
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<400> 1293
ucguggugga cuucucuca 19

<210> 1294
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<400> 1294
gugguggacu ucucucaau 19

<210> 1295
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<400> 1295
gccgauccau acugcggaa 19

<210> 1296
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<400> 1296
ccgauccaua cugcggaac 19

<210> 1297
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<400> 1297
cauccugcug cuaugccuc 19

<210> 1298
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<400> 1298
ugcugcuaug ccucaucuu 19

<210> 1299
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<400> 1299
gguggacuuc ucucaauuu 19

<210> 1300
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<400> 1300
ugguggacuu cucucaauu 19

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uagacucgug guggacuuc 19

<210> 1302
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<400> 1302
uccucugccg auccauacu 19

<210> 1303
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<400> 1303
ugccgaucca uacugcgga 19

<210> 1304

<211> 19
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<400> 1304
uggauguguc ugcggcguu 19

<210> 1305
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<400> 1305
cgauccauac ugcggaacu 19

<210> 1306
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<400> 1306
cgcaccucuc uuuacgcgg 19

<210> 1307
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<400> 1307
cugccgaucc auacugcgg 19

<210> 1308
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<400> 1308
cgugguggac uucucucaa 19

<210> 1309
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<400> 1309
cugcugcuau gccucaucu 19

<210> 1310
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<400> 1310
ccugcugcua ugccucauc 19

<210> 1311
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<400> 1311
cuagacucgu gguggacuu 19

<210> 1312
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<210> 1395
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<210> 1396
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<210> 1403
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<210> 1404
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<210> 1405
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<210> 1406
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<210> 1409
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<210> 1414
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<210> 1416
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<210> 1417
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<210> 1418
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<210> 1423
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<223> Description of Artificial Sequence: Synthetic
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