SEQUENCE LISTING

<110> EDITAS MEDICINE, INC.
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<120> CRISPR/CAS-RELATED METHODS, COMPOSITIONS AND COMPONENTS FOR CANCER IMMUNOTHERAPY

<130> 2011271-0005

<150> US 61/981,636
<151> 2014-04-18

<150> US 62/138,246
<151> 2015-03-25

<160> 51201

<170> PatentIn version 3.5

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Ala Leu Leu Phe Asp Ser Gly Asn Thr Ala Glu Asp Arg Arg Leu Lys
50 55 60

Arg Thr Ala Arg Arg Arg Tyr Thr Arg Arg Arg Asn Arg Ile Leu Tyr
65 70 75 80

Leu Gln Glu Ile Phe Ser Glu Glu Met Gly Lys Val Asp Asp Ser Phe
85 90 95

Phe His Arg Leu Glu Asp Ser Phe Leu Val Thr Glu Asp Lys Arg Gly
100 105 110

Glu Arg His Pro Ile Phe Gly Asn Leu Glu Glu Glu Val Lys Tyr His
115 120 125

Glu Asn Phe Pro Thr Ile Tyr His Leu Arg Gln Tyr Leu Ala Asp Asn
130 135 140

Pro Glu Lys Val Asp Leu Arg Leu Val Tyr Leu Ala Leu Ala His Ile
145 150 155 160

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Ile Lys Phe Arg Gly His Phe Leu Ile Glu Gly Lys Phe Asp Thr Arg
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Asn Asn Asp Val Gln Arg Leu Phe Gln Glu Phe Leu Ala Val Tyr Asp
            180                 185                 190

Asn Thr Phe Glu Asn Ser Ser Leu Gln Glu Gln Asn Val Gln Val Glu
        195                 200                 205

Glu Ile Leu Thr Asp Lys Ile Ser Lys Ser Ala Lys Lys Asp Arg Val
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Leu Lys Leu Phe Pro Asn Glu Lys Ser Asn Gly Arg Phe Ala Glu Phe
225                 230                 235                 240

Leu Lys Leu Ile Val Gly Asn Gln Ala Asp Phe Lys Lys His Phe Glu
                245                 250                 255

Leu Glu Glu Lys Ala Pro Leu Gln Phe Ser Lys Asp Thr Tyr Glu Glu
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Glu Leu Glu Val Leu Leu Ala Gln Ile Gly Asp Asn Tyr Ala Glu Leu
        275                 280                 285

Phe Leu Ser Ala Lys Lys Leu Tyr Asp Ser Ile Leu Leu Ser Gly Ile
    290                 295                 300

Leu Thr Val Thr Asp Val Gly Thr Lys Ala Pro Leu Ser Ala Ser Met
305                 310                 315                 320

Ile Gln Arg Tyr Asn Glu His Gln Met Asp Leu Ala Gln Leu Lys Gln
                325                 330                 335

Phe Ile Arg Gln Lys Leu Ser Asp Lys Tyr Asn Glu Val Phe Ser Asp
            340                 345                 350

Val Ser Lys Asp Gly Tyr Ala Gly Tyr Ile Asp Gly Lys Thr Asn Gln
        355                 360                 365

Glu Ala Phe Tyr Lys Tyr Leu Lys Gly Leu Leu Asn Lys Ile Glu Gly
    370                 375                 380

Ser Gly Tyr Phe Leu Asp Lys Ile Glu Arg Glu Asp Phe Leu Arg Lys
385                 390                 395                 400

Gln Arg Thr Phe Asp Asn Gly Ser Ile Pro His Gln Ile His Leu Gln
                405                 410                 415

Glu Met Arg Ala Ile Ile Arg Arg Gln Ala Glu Phe Tyr Pro Phe Leu
            420                 425                 430
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Ala Asp Asn Gln Asp Arg Ile Glu Lys Leu Leu Thr Phe Arg Ile Pro
        435                 440                 445

Tyr Tyr Val Gly Pro Leu Ala Arg Gly Lys Ser Asp Phe Ala Trp Leu
    450                 455                 460

Ser Arg Lys Ser Ala Asp Lys Ile Thr Pro Trp Asn Phe Asp Glu Ile
465                 470                 475                 480

Val Asp Lys Glu Ser Ser Ala Glu Ala Phe Ile Asn Arg Met Thr Asn
                485                 490                 495

Tyr Asp Leu Tyr Leu Pro Asn Gln Lys Val Leu Pro Lys His Ser Leu
            500                 505                 510

Leu Tyr Glu Lys Phe Thr Val Tyr Asn Glu Leu Thr Lys Val Lys Tyr
        515                 520                 525

Lys Thr Glu Gln Gly Lys Thr Ala Phe Phe Asp Ala Asn Met Lys Gln
    530                 535                 540

Glu Ile Phe Asp Gly Val Phe Lys Val Tyr Arg Lys Val Thr Lys Asp
545                 550                 555                 560

Lys Leu Met Asp Phe Leu Glu Lys Glu Phe Asp Glu Phe Arg Ile Val
                565                 570                 575

Asp Leu Thr Gly Leu Asp Lys Glu Asn Lys Val Phe Asn Ala Ser Tyr
            580                 585                 590

Gly Thr Tyr His Asp Leu Cys Lys Ile Leu Asp Lys Asp Phe Leu Asp
        595                 600                 605

Asn Ser Lys Asn Glu Lys Ile Leu Glu Asp Ile Val Leu Thr Leu Thr
    610                 615                 620

Leu Phe Glu Asp Arg Glu Met Ile Arg Lys Arg Leu Glu Asn Tyr Ser
625                 630                 635                 640

Asp Leu Leu Thr Lys Glu Gln Val Lys Lys Leu Glu Arg Arg His Tyr
                645                 650                 655

Thr Gly Trp Gly Arg Leu Ser Ala Glu Leu Ile His Gly Ile Arg Asn
            660                 665                 670

Lys Glu Ser Arg Lys Thr Ile Leu Asp Tyr Leu Ile Asp Asp Gly Asn
        675                 680                 685

Ser Asn Arg Asn Phe Met Gln Leu Ile Asn Asp Asp Ala Leu Ser Phe
    690                 695                 700
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Lys Glu Glu Ile Ala Lys Ala Gln Val Ile Gly Glu Thr Asp Asn Leu
705                 710                 715                 720

Asn Gln Val Val Ser Asp Ile Ala Gly Ser Pro Ala Ile Lys Lys Gly
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Ile Leu Gln Ser Leu Lys Ile Val Asp Glu Leu Val Lys Ile Met Gly
            740                 745                 750

His Gln Pro Glu Asn Ile Val Val Glu Met Ala Arg Glu Asn Gln Phe
        755                 760                 765

Thr Asn Gln Gly Arg Arg Asn Ser Gln Gln Arg Leu Lys Gly Leu Thr
    770                 775                 780

Asp Ser Ile Lys Glu Phe Gly Ser Gln Ile Leu Lys Glu His Pro Val
785                 790                 795                 800

Glu Asn Ser Gln Leu Gln Asn Asp Arg Leu Phe Leu Tyr Tyr Leu Gln
                805                 810                 815

Asn Gly Arg Asp Met Tyr Thr Gly Glu Glu Leu Asp Ile Asp Tyr Leu
            820                 825                 830

Ser Gln Tyr Asp Ile Asp His Ile Ile Pro Gln Ala Phe Ile Lys Asp
        835                 840                 845

Asn Ser Ile Asp Asn Arg Val Leu Thr Ser Ser Lys Glu Asn Arg Gly
    850                 855                 860

Lys Ser Asp Asp Val Pro Ser Lys Asp Val Val Arg Lys Met Lys Ser
865                 870                 875                 880

Tyr Trp Ser Lys Leu Leu Ser Ala Lys Leu Ile Thr Gln Arg Lys Phe
                885                 890                 895

Asp Asn Leu Thr Lys Ala Glu Arg Gly Gly Leu Thr Asp Asp Asp Lys
            900                 905                 910

Ala Gly Phe Ile Lys Arg Gln Leu Val Glu Thr Arg Gln Ile Thr Lys
        915                 920                 925

His Val Ala Arg Ile Leu Asp Glu Arg Phe Asn Thr Glu Thr Asp Glu
    930                 935                 940

Asn Asn Lys Lys Ile Arg Gln Val Lys Ile Val Thr Leu Lys Ser Asn
945                 950                 955                 960

Leu Val Ser Asn Phe Arg Lys Glu Phe Glu Leu Tyr Lys Val Arg Glu
                965                 970                 975
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Ile Asn Asp Tyr His His Ala His Asp Ala Tyr Leu Asn Ala Val Ile
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Gly Lys Ala Leu Leu Gly Val Tyr  Pro Gln Leu Glu Pro  Glu Phe Val
       995                 1000                1005

Tyr Gly  Asp Tyr Pro His Phe  His Gly His Lys Glu  Asn Lys Ala
    1010                1015                1020

Thr Ala  Lys Lys Phe Phe Tyr  Ser Asn Ile Met Asn  Phe Phe Lys
    1025                1030                1035

Lys Asp  Asp Val Arg Thr Asp  Lys Asn Gly Glu Ile  Ile Trp Lys
    1040                1045                1050

Lys Asp  Glu His Ile Ser Asn  Ile Lys Lys Val Leu  Ser Tyr Pro
    1055                1060                1065

Gln Val  Asn Ile Val Lys Lys  Val Glu Glu Gln Thr  Gly Gly Phe
    1070                1075                1080

Ser Lys  Glu Ser Ile Leu Pro  Lys Gly Asn Ser Asp  Lys Leu Ile
    1085                1090                1095

Pro Arg  Lys Thr Lys Lys Phe  Tyr Trp Asp Thr Lys  Lys Tyr Gly
    1100                1105                1110

Gly Phe  Asp Ser Pro Ile Val  Ala Tyr Ser Ile Leu  Val Ile Ala
    1115                1120                1125

Asp Ile  Glu Lys Gly Lys Ser  Lys Lys Leu Lys Thr  Val Lys Ala
    1130                1135                1140

Leu Val  Gly Val Thr Ile Met  Glu Lys Met Thr Phe  Glu Arg Asp
    1145                1150                1155

Pro Val  Ala Phe Leu Glu Arg  Lys Gly Tyr Arg Asn  Val Gln Glu
    1160                1165                1170

Glu Asn  Ile Ile Lys Leu Pro  Lys Tyr Ser Leu Phe  Lys Leu Glu
    1175                1180                1185

Asn Gly  Arg Lys Arg Leu Leu  Ala Ser Ala Arg Glu  Leu Gln Lys
    1190                1195                1200

Gly Asn  Glu Ile Val Leu Pro  Asn His Leu Gly Thr  Leu Leu Tyr
    1205                1210                1215

His Ala  Lys Asn Ile His Lys  Val Asp Glu Pro Lys  His Leu Asp
    1220                1225                1230
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Tyr Val  Asp Lys His Lys Asp  Glu Phe Lys Glu Leu  Leu Asp Val
    1235                1240                1245

Val Ser  Asn Phe Ser Lys Lys  Tyr Thr Leu Ala Glu  Gly Asn Leu
    1250                1255                1260

Glu Lys  Ile Lys Glu Leu Tyr  Ala Gln Asn Asn Gly  Glu Asp Leu
    1265                1270                1275

Lys Glu  Leu Ala Ser Ser Phe  Ile Asn Leu Leu Thr  Phe Thr Ala
    1280                1285                1290

Ile Gly  Ala Pro Ala Thr Phe  Lys Phe Phe Asp Lys  Asn Ile Asp
    1295                1300                1305

Arg Lys  Arg Tyr Thr Ser Thr  Thr Glu Ile Leu Asn  Ala Thr Leu
    1310                1315                1320

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Asn Lys  Leu Gly Gly Asp
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Trp Ala Val Ile Thr Asp Glu Tyr Lys Val Pro Ser Lys Lys Phe Lys
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Val Leu Gly Asn Thr Asp Arg His Ser Ile Lys Lys Asn Leu Ile Gly
        35                  40                  45

Ala Leu Leu Phe Asp Ser Gly Glu Thr Ala Glu Ala Thr Arg Leu Lys
    50                  55                  60

Arg Thr Ala Arg Arg Arg Tyr Thr Arg Arg Lys Asn Arg Ile Cys Tyr
65                  70                  75                  80

Leu Gln Glu Ile Phe Ser Asn Glu Met Ala Lys Val Asp Asp Ser Phe
                85                  90                  95

Phe His Arg Leu Glu Glu Ser Phe Leu Val Glu Glu Asp Lys Lys His
            100                 105                 110
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Glu Arg His Pro Ile Phe Gly Asn Ile Val Asp Glu Val Ala Tyr His
        115                 120                 125

Glu Lys Tyr Pro Thr Ile Tyr His Leu Arg Lys Lys Leu Val Asp Ser
    130                 135                 140

Thr Asp Lys Ala Asp Leu Arg Leu Ile Tyr Leu Ala Leu Ala His Met
145                 150                 155                 160

Ile Lys Phe Arg Gly His Phe Leu Ile Glu Gly Asp Leu Asn Pro Asp
                165                 170                 175

Asn Ser Asp Val Asp Lys Leu Phe Ile Gln Leu Val Gln Thr Tyr Asn
            180                 185                 190

Gln Leu Phe Glu Glu Asn Pro Ile Asn Ala Ser Gly Val Asp Ala Lys
        195                 200                 205

Ala Ile Leu Ser Ala Arg Leu Ser Lys Ser Arg Arg Leu Glu Asn Leu
    210                 215                 220

Ile Ala Gln Leu Pro Gly Glu Lys Lys Asn Gly Leu Phe Gly Asn Leu
225                 230                 235                 240

Ile Ala Leu Ser Leu Gly Leu Thr Pro Asn Phe Lys Ser Asn Phe Asp
                245                 250                 255

Leu Ala Glu Asp Ala Lys Leu Gln Leu Ser Lys Asp Thr Tyr Asp Asp
            260                 265                 270

Asp Leu Asp Asn Leu Leu Ala Gln Ile Gly Asp Gln Tyr Ala Asp Leu
        275                 280                 285

Phe Leu Ala Ala Lys Asn Leu Ser Asp Ala Ile Leu Leu Ser Asp Ile
    290                 295                 300

Leu Arg Val Asn Thr Glu Ile Thr Lys Ala Pro Leu Ser Ala Ser Met
305                 310                 315                 320

Ile Lys Arg Tyr Asp Glu His His Gln Asp Leu Thr Leu Leu Lys Ala
                325                 330                 335

Leu Val Arg Gln Gln Leu Pro Glu Lys Tyr Lys Glu Ile Phe Phe Asp
            340                 345                 350

Gln Ser Lys Asn Gly Tyr Ala Gly Tyr Ile Asp Gly Gly Ala Ser Gln
        355                 360                 365

Glu Glu Phe Tyr Lys Phe Ile Lys Pro Ile Leu Glu Lys Met Asp Gly
    370                 375                 380
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Thr Glu Glu Leu Leu Val Lys Leu Asn Arg Glu Asp Leu Leu Arg Lys
385                 390                 395                 400

Gln Arg Thr Phe Asp Asn Gly Ser Ile Pro His Gln Ile His Leu Gly
                405                 410                 415

Glu Leu His Ala Ile Leu Arg Arg Gln Glu Asp Phe Tyr Pro Phe Leu
            420                 425                 430

Lys Asp Asn Arg Glu Lys Ile Glu Lys Ile Leu Thr Phe Arg Ile Pro
        435                 440                 445

Tyr Tyr Val Gly Pro Leu Ala Arg Gly Asn Ser Arg Phe Ala Trp Met
    450                 455                 460

Thr Arg Lys Ser Glu Glu Thr Ile Thr Pro Trp Asn Phe Glu Glu Val
465                 470                 475                 480

Val Asp Lys Gly Ala Ser Ala Gln Ser Phe Ile Glu Arg Met Thr Asn
                485                 490                 495

Phe Asp Lys Asn Leu Pro Asn Glu Lys Val Leu Pro Lys His Ser Leu
            500                 505                 510

Leu Tyr Glu Tyr Phe Thr Val Tyr Asn Glu Leu Thr Lys Val Lys Tyr
        515                 520                 525

Val Thr Glu Gly Met Arg Lys Pro Ala Phe Leu Ser Gly Glu Gln Lys
    530                 535                 540

Lys Ala Ile Val Asp Leu Leu Phe Lys Thr Asn Arg Lys Val Thr Val
545                 550                 555                 560

Lys Gln Leu Lys Glu Asp Tyr Phe Lys Lys Ile Glu Cys Phe Asp Ser
                565                 570                 575

Val Glu Ile Ser Gly Val Glu Asp Arg Phe Asn Ala Ser Leu Gly Thr
            580                 585                 590

Tyr His Asp Leu Leu Lys Ile Ile Lys Asp Lys Asp Phe Leu Asp Asn
        595                 600                 605

Glu Glu Asn Glu Asp Ile Leu Glu Asp Ile Val Leu Thr Leu Thr Leu
    610                 615                 620

Phe Glu Asp Arg Glu Met Ile Glu Glu Arg Leu Lys Thr Tyr Ala His
625                 630                 635                 640

Leu Phe Asp Asp Lys Val Met Lys Gln Leu Lys Arg Arg Arg Tyr Thr
                645                 650                 655
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Gly Trp Gly Arg Leu Ser Arg Lys Leu Ile Asn Gly Ile Arg Asp Lys
            660                 665                 670

Gln Ser Gly Lys Thr Ile Leu Asp Phe Leu Lys Ser Asp Gly Phe Ala
        675                 680                 685

Asn Arg Asn Phe Met Gln Leu Ile His Asp Asp Ser Leu Thr Phe Lys
    690                 695                 700

Glu Asp Ile Gln Lys Ala Gln Val Ser Gly Gln Gly Asp Ser Leu His
705                 710                 715                 720

Glu His Ile Ala Asn Leu Ala Gly Ser Pro Ala Ile Lys Lys Gly Ile
                725                 730                 735

Leu Gln Thr Val Lys Val Val Asp Glu Leu Val Lys Val Met Gly Arg
            740                 745                 750

His Lys Pro Glu Asn Ile Val Ile Glu Met Ala Arg Glu Asn Gln Thr
        755                 760                 765

Thr Gln Lys Gly Gln Lys Asn Ser Arg Glu Arg Met Lys Arg Ile Glu
    770                 775                 780

Glu Gly Ile Lys Glu Leu Gly Ser Gln Ile Leu Lys Glu His Pro Val
785                 790                 795                 800

Glu Asn Thr Gln Leu Gln Asn Glu Lys Leu Tyr Leu Tyr Tyr Leu Gln
                805                 810                 815

Asn Gly Arg Asp Met Tyr Val Asp Gln Glu Leu Asp Ile Asn Arg Leu
            820                 825                 830

Ser Asp Tyr Asp Val Asp His Ile Val Pro Gln Ser Phe Leu Lys Asp
        835                 840                 845

Asp Ser Ile Asp Asn Lys Val Leu Thr Arg Ser Asp Lys Asn Arg Gly
    850                 855                 860

Lys Ser Asp Asn Val Pro Ser Glu Glu Val Val Lys Lys Met Lys Asn
865                 870                 875                 880

Tyr Trp Arg Gln Leu Leu Asn Ala Lys Leu Ile Thr Gln Arg Lys Phe
                885                 890                 895

Asp Asn Leu Thr Lys Ala Glu Arg Gly Gly Leu Ser Glu Leu Asp Lys
            900                 905                 910

Ala Gly Phe Ile Lys Arg Gln Leu Val Glu Thr Arg Gln Ile Thr Lys
        915                 920                 925
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His Val Ala Gln Ile Leu Asp Ser Arg Met Asn Thr Lys Tyr Asp Glu
    930                 935                 940

Asn Asp Lys Leu Ile Arg Glu Val Lys Val Ile Thr Leu Lys Ser Lys
945                 950                 955                 960

Leu Val Ser Asp Phe Arg Lys Asp Phe Gln Phe Tyr Lys Val Arg Glu
                965                 970                 975

Ile Asn Asn Tyr His His Ala His Asp Ala Tyr Leu Asn Ala Val Val
            980                 985                 990

Gly Thr Ala Leu Ile Lys Lys Tyr  Pro Lys Leu Glu Ser  Glu Phe Val
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Tyr Gly  Asp Tyr Lys Val Tyr  Asp Val Arg Lys Met  Ile Ala Lys
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Ser Glu  Gln Glu Ile Gly Lys  Ala Thr Ala Lys Tyr  Phe Phe Tyr
    1025                1030                1035

Ser Asn  Ile Met Asn Phe Phe  Lys Thr Glu Ile Thr  Leu Ala Asn
    1040                1045                1050

Gly Glu  Ile Arg Lys Arg Pro  Leu Ile Glu Thr Asn  Gly Glu Thr
    1055                1060                1065

Gly Glu  Ile Val Trp Asp Lys  Gly Arg Asp Phe Ala  Thr Val Arg
    1070                1075                1080

Lys Val  Leu Ser Met Pro Gln  Val Asn Ile Val Lys  Lys Thr Glu
    1085                1090                1095

Val Gln  Thr Gly Gly Phe Ser  Lys Glu Ser Ile Leu  Pro Lys Arg
    1100                1105                1110

Asn Ser  Asp Lys Leu Ile Ala  Arg Lys Lys Asp Trp  Asp Pro Lys
    1115                1120                1125

Lys Tyr  Gly Gly Phe Asp Ser  Pro Thr Val Ala Tyr  Ser Val Leu
    1130                1135                1140

Val Val  Ala Lys Val Glu Lys  Gly Lys Ser Lys Lys  Leu Lys Ser
    1145                1150                1155

Val Lys  Glu Leu Leu Gly Ile  Thr Ile Met Glu Arg  Ser Ser Phe
    1160                1165                1170

Glu Lys  Asn Pro Ile Asp Phe  Leu Glu Ala Lys Gly  Tyr Lys Glu
    1175                1180                1185
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Val Lys  Lys Asp Leu Ile Ile  Lys Leu Pro Lys Tyr  Ser Leu Phe
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Glu Leu  Glu Asn Gly Arg Lys  Arg Met Leu Ala Ser  Ala Gly Glu
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Leu Gln  Lys Gly Asn Glu Leu  Ala Leu Pro Ser Lys  Tyr Val Asn
    1220                 1225                 1230


Phe Leu  Tyr Leu Ala Ser His  Tyr Glu Lys Leu Lys  Gly Ser Pro
    1235                 1240                 1245


Glu Asp  Asn Glu Gln Lys Gln  Leu Phe Val Glu Gln  His Lys His
    1250                 1255                 1260


Tyr Leu  Asp Glu Ile Ile Glu  Gln Ile Ser Glu Phe  Ser Lys Arg
    1265                 1270                 1275


Val Ile  Leu Ala Asp Ala Asn  Leu Asp Lys Val Leu  Ser Ala Tyr
    1280                 1285                 1290


Asn Lys  His Arg Asp Lys Pro  Ile Arg Glu Gln Ala  Glu Asn Ile
    1295                 1300                 1305


Ile His  Leu Phe Thr Leu Thr  Asn Leu Gly Ala Pro  Ala Ala Phe
    1310                 1315                 1320


Lys Tyr  Phe Asp Thr Thr Ile  Asp Arg Lys Arg Tyr  Thr Ser Thr
    1325                 1330                 1335


Lys Glu  Val Leu Asp Ala Thr  Leu Ile His Gln Ser  Ile Thr Gly
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Leu Tyr  Glu Thr Arg Ile Asp  Leu Ser Gln Leu Gly  Gly Asp
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Val Leu Gly Asn Thr Ser Lys Lys Tyr Ile Lys Lys Asn Leu Leu Gly
        35                  40                  45
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Val Leu Leu Phe Asp Ser Gly Ile Thr Ala Glu Gly Arg Arg Leu Lys
    50                  55                  60

Arg Thr Ala Arg Arg Arg Tyr Thr Arg Arg Arg Asn Arg Ile Leu Tyr
65                  70                  75                  80

Leu Gln Glu Ile Phe Ser Thr Glu Met Ala Thr Leu Asp Asp Ala Phe
                85                  90                  95

Phe Gln Arg Leu Asp Asp Ser Phe Leu Val Pro Asp Asp Lys Arg Asp
            100                 105                 110

Ser Lys Tyr Pro Ile Phe Gly Asn Leu Val Glu Glu Lys Ala Tyr His
        115                 120                 125

Asp Glu Phe Pro Thr Ile Tyr His Leu Arg Lys Tyr Leu Ala Asp Ser
    130                 135                 140

Thr Lys Lys Ala Asp Leu Arg Leu Val Tyr Leu Ala Leu Ala His Met
145                 150                 155                 160

Ile Lys Tyr Arg Gly His Phe Leu Ile Glu Gly Glu Phe Asn Ser Lys
                165                 170                 175

Asn Asn Asp Ile Gln Lys Asn Phe Gln Asp Phe Leu Asp Thr Tyr Asn
            180                 185                 190

Ala Ile Phe Glu Ser Asp Leu Ser Leu Glu Asn Ser Lys Gln Leu Glu
        195                 200                 205

Glu Ile Val Lys Asp Lys Ile Ser Lys Leu Glu Lys Lys Asp Arg Ile
    210                 215                 220

Leu Lys Leu Phe Pro Gly Glu Lys Asn Ser Gly Ile Phe Ser Glu Phe
225                 230                 235                 240

Leu Lys Leu Ile Val Gly Asn Gln Ala Asp Phe Arg Lys Cys Phe Asn
                245                 250                 255

Leu Asp Glu Lys Ala Ser Leu His Phe Ser Lys Glu Ser Tyr Asp Glu
            260                 265                 270

Asp Leu Glu Thr Leu Leu Gly Tyr Ile Gly Asp Asp Tyr Ser Asp Val
        275                 280                 285

Phe Leu Lys Ala Lys Lys Leu Tyr Asp Ala Ile Leu Leu Ser Gly Phe
    290                 295                 300

Leu Thr Val Thr Asp Asn Glu Thr Glu Ala Pro Leu Ser Ser Ala Met
305                 310                 315                 320
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Ile Lys Arg Tyr Asn Glu His Lys Glu Asp Leu Ala Leu Leu Lys Glu
                325                 330                 335

Tyr Ile Arg Asn Ile Ser Leu Lys Thr Tyr Asn Glu Val Phe Lys Asp
            340                 345                 350

Asp Thr Lys Asn Gly Tyr Ala Gly Tyr Ile Asp Gly Lys Thr Asn Gln
        355                 360                 365

Glu Asp Phe Tyr Val Tyr Leu Lys Lys Leu Leu Ala Glu Phe Glu Gly
    370                 375                 380

Ala Asp Tyr Phe Leu Glu Lys Ile Asp Arg Glu Asp Phe Leu Arg Lys
385                 390                 395                 400

Gln Arg Thr Phe Asp Asn Gly Ser Ile Pro Tyr Gln Ile His Leu Gln
                405                 410                 415

Glu Met Arg Ala Ile Leu Asp Lys Gln Ala Lys Phe Tyr Pro Phe Leu
            420                 425                 430

Ala Lys Asn Lys Glu Arg Ile Glu Lys Ile Leu Thr Phe Arg Ile Pro
        435                 440                 445

Tyr Tyr Val Gly Pro Leu Ala Arg Gly Asn Ser Asp Phe Ala Trp Ser
    450                 455                 460

Ile Arg Lys Arg Asn Glu Lys Ile Thr Pro Trp Asn Phe Glu Asp Val
465                 470                 475                 480

Ile Asp Lys Glu Ser Ser Ala Glu Ala Phe Ile Asn Arg Met Thr Ser
                485                 490                 495

Phe Asp Leu Tyr Leu Pro Glu Glu Lys Val Leu Pro Lys His Ser Leu
            500                 505                 510

Leu Tyr Glu Thr Phe Asn Val Tyr Asn Glu Leu Thr Lys Val Arg Phe
        515                 520                 525

Ile Ala Glu Ser Met Arg Asp Tyr Gln Phe Leu Asp Ser Lys Gln Lys
    530                 535                 540

Lys Asp Ile Val Arg Leu Tyr Phe Lys Asp Lys Arg Lys Val Thr Asp
545                 550                 555                 560

Lys Asp Ile Ile Glu Tyr Leu His Ala Ile Tyr Gly Tyr Asp Gly Ile
                565                 570                 575

Glu Leu Lys Gly Ile Glu Lys Gln Phe Asn Ser Ser Leu Ser Thr Tyr
            580                 585                 590
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His Asp Leu Leu Asn Ile Ile Asn Asp Lys Glu Phe Leu Asp Asp Ser
        595                 600                 605

Ser Asn Glu Ala Ile Ile Glu Glu Ile Ile His Thr Leu Thr Ile Phe
    610                 615                 620

Glu Asp Arg Glu Met Ile Lys Gln Arg Leu Ser Lys Phe Glu Asn Ile
625                 630                 635                 640

Phe Asp Lys Ser Val Leu Lys Lys Leu Ser Arg Arg His Tyr Thr Gly
                645                 650                 655

Trp Gly Lys Leu Ser Ala Lys Leu Ile Asn Gly Ile Arg Asp Glu Lys
            660                 665                 670

Ser Gly Asn Thr Ile Leu Asp Tyr Leu Ile Asp Asp Gly Ile Ser Asn
        675                 680                 685

Arg Asn Phe Met Gln Leu Ile His Asp Asp Ala Leu Ser Phe Lys Lys
    690                 695                 700

Lys Ile Gln Lys Ala Gln Ile Ile Gly Asp Glu Asp Lys Gly Asn Ile
705                 710                 715                 720

Lys Glu Val Val Lys Ser Leu Pro Gly Ser Pro Ala Ile Lys Lys Gly
                725                 730                 735

Ile Leu Gln Ser Ile Lys Ile Val Asp Glu Leu Val Lys Val Met Gly
            740                 745                 750

Gly Arg Lys Pro Glu Ser Ile Val Val Glu Met Ala Arg Glu Asn Gln
        755                 760                 765

Tyr Thr Asn Gln Gly Lys Ser Asn Ser Gln Gln Arg Leu Lys Arg Leu
    770                 775                 780

Glu Lys Ser Leu Lys Glu Leu Gly Ser Lys Ile Leu Lys Glu Asn Ile
785                 790                 795                 800

Pro Ala Lys Leu Ser Lys Ile Asp Asn Asn Ala Leu Gln Asn Asp Arg
                805                 810                 815

Leu Tyr Leu Tyr Tyr Leu Gln Asn Gly Lys Asp Met Tyr Thr Gly Asp
            820                 825                 830

Asp Leu Asp Ile Asp Arg Leu Ser Asn Tyr Asp Ile Asp His Ile Ile
        835                 840                 845

Pro Gln Ala Phe Leu Lys Asp Asn Ser Ile Asp Asn Lys Val Leu Val
    850                 855                 860
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Ser Ser Ala Ser Asn Arg Gly Lys Ser Asp Asp Val Pro Ser Leu Glu
865                 870                 875                 880

Val Val Lys Lys Arg Lys Thr Phe Trp Tyr Gln Leu Leu Lys Ser Lys
                885                 890                 895

Leu Ile Ser Gln Arg Lys Phe Asp Asn Leu Thr Lys Ala Glu Arg Gly
            900                 905                 910

Gly Leu Ser Pro Glu Asp Lys Ala Gly Phe Ile Gln Arg Gln Leu Val
        915                 920                 925

Glu Thr Arg Gln Ile Thr Lys His Val Ala Arg Leu Leu Asp Glu Lys
    930                 935                 940

Phe Asn Asn Lys Lys Asp Glu Asn Asn Arg Ala Val Arg Thr Val Lys
945                 950                 955                 960

Ile Ile Thr Leu Lys Ser Thr Leu Val Ser Gln Phe Arg Lys Asp Phe
                965                 970                 975

Glu Leu Tyr Lys Val Arg Glu Ile Asn Asp Phe His His Ala His Asp
            980                 985                 990

Ala Tyr Leu Asn Ala Val Val Ala  Ser Ala Leu Leu Lys  Lys Tyr Pro
        995                 1000                1005

Lys Leu  Glu Pro Glu Phe Val  Tyr Gly Asp Tyr Pro  Lys Tyr Asn
    1010                1015                1020

Ser Phe  Arg Glu Arg Lys Ser  Ala Thr Glu Lys Val  Tyr Phe Tyr
    1025                1030                1035

Ser Asn  Ile Met Asn Ile Phe  Lys Lys Ser Ile Ser  Leu Ala Asp
    1040                1045                1050

Gly Arg  Val Ile Glu Arg Pro  Leu Ile Glu Val Asn  Glu Glu Thr
    1055                1060                1065

Gly Glu  Ser Val Trp Asn Lys  Glu Ser Asp Leu Ala  Thr Val Arg
    1070                1075                1080

Arg Val  Leu Ser Tyr Pro Gln  Val Asn Val Val Lys  Lys Val Glu
    1085                1090                1095

Glu Gln  Asn His Gly Leu Asp  Arg Gly Lys Pro Lys  Gly Leu Phe
    1100                1105                1110

Asn Ala  Asn Leu Ser Ser Lys  Pro Lys Pro Asn Ser  Asn Glu Asn
    1115                1120                1125
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Leu Val  Gly Ala Lys Glu Tyr  Leu Asp Pro Lys Lys  Tyr Gly Gly
    1130                1135                1140

Tyr Ala  Gly Ile Ser Asn Ser  Phe Thr Val Leu Val  Lys Gly Thr
    1145                1150                1155

Ile Glu  Lys Gly Ala Lys Lys  Lys Ile Thr Asn Val  Leu Glu Phe
    1160                1165                1170

Gln Gly  Ile Ser Ile Leu Asp  Arg Ile Asn Tyr Arg  Lys Asp Lys
    1175                1180                1185

Leu Asn  Phe Leu Leu Glu Lys  Gly Tyr Lys Asp Ile  Glu Leu Ile
    1190                1195                1200

Ile Glu  Leu Pro Lys Tyr Ser  Leu Phe Glu Leu Ser  Asp Gly Ser
    1205                1210                1215

Arg Arg  Met Leu Ala Ser Ile  Leu Ser Thr Asn Asn  Lys Arg Gly
    1220                1225                1230

Glu Ile  His Lys Gly Asn Gln  Ile Phe Leu Ser Gln  Lys Phe Val
    1235                1240                1245

Lys Leu  Leu Tyr His Ala Lys  Arg Ile Ser Asn Thr  Ile Asn Glu
    1250                1255                1260

Asn His  Arg Lys Tyr Val Glu  Asn His Lys Lys Glu  Phe Glu Glu
    1265                1270                1275

Leu Phe  Tyr Tyr Ile Leu Glu  Phe Asn Glu Asn Tyr  Val Gly Ala
    1280                1285                1290

Lys Lys  Asn Gly Lys Leu Leu  Asn Ser Ala Phe Gln  Ser Trp Gln
    1295                1300                1305

Asn His  Ser Ile Asp Glu Leu  Cys Ser Ser Phe Ile  Gly Pro Thr
    1310                1315                1320

Gly Ser  Glu Arg Lys Gly Leu  Phe Glu Leu Thr Ser  Arg Gly Ser
    1325                1330                1335

Ala Ala  Asp Phe Glu Phe Leu  Gly Val Lys Ile Pro  Arg Tyr Arg
    1340                1345                1350

Asp Tyr  Thr Pro Ser Ser Leu  Leu Lys Asp Ala Thr  Leu Ile His
    1355                1360                1365

Gln Ser  Val Thr Gly Leu Tyr  Glu Thr Arg Ile Asp  Leu Ala Lys
    1370                1375                1380
```

Leu Gly Glu Gly
1385

<210> 4
<211> 1333
<212> PRT
<213> Listeria innocua

<400> 4

Lys Lys Pro Tyr Thr Ile Gly Leu Asp Ile Gly Thr Asn Ser Val Gly
1   5   10   15

Trp Ala Val Leu Thr Asp Gln Tyr Asp Leu Val Lys Arg Lys Met Lys
            20   25   30

Ile Ala Gly Asp Ser Glu Lys Lys Gln Ile Lys Lys Asn Phe Trp Gly
        35   40   45

Val Arg Leu Phe Asp Glu Gly Gln Thr Ala Ala Asp Arg Arg Met Ala
    50   55   60

Arg Thr Ala Arg Arg Arg Ile Glu Arg Arg Arg Asn Arg Ile Ser Tyr
65   70   75   80

Leu Gln Gly Ile Phe Ala Glu Glu Met Ser Lys Thr Asp Ala Asn Phe
                85   90   95

Phe Cys Arg Leu Ser Asp Ser Phe Tyr Val Asp Asn Glu Lys Arg Asn
            100   105   110

Ser Arg His Pro Phe Phe Ala Thr Ile Glu Glu Glu Val Glu Tyr His
        115   120   125

Lys Asn Tyr Pro Thr Ile Tyr His Leu Arg Glu Glu Leu Val Asn Ser
    130   135   140

Ser Glu Lys Ala Asp Leu Arg Leu Val Tyr Leu Ala Leu Ala His Ile
145   150   155   160

Ile Lys Tyr Arg Gly Asn Phe Leu Ile Glu Gly Ala Leu Asp Thr Gln
                165   170   175

Asn Thr Ser Val Asp Gly Ile Tyr Lys Gln Phe Ile Gln Thr Tyr Asn
            180   185   190

Gln Val Phe Ala Ser Gly Ile Glu Asp Gly Ser Leu Lys Lys Leu Glu
        195   200   205

Asp Asn Lys Asp Val Ala Lys Ile Leu Val Glu Lys Val Thr Arg Lys
    210   215   220

Glu Lys Leu Glu Arg Ile Leu Lys Leu Tyr Pro Gly Glu Lys Ser Ala

225 230 235 240

Gly Met Phe Ala Gln Phe Ile Ser Leu Ile Val Gly Ser Lys Gly Asn
245 250 255

Phe Gln Lys Pro Phe Asp Leu Ile Glu Lys Ser Asp Ile Glu Cys Ala
260 265 270

Lys Asp Ser Tyr Glu Glu Asp Leu Glu Ser Leu Leu Ala Leu Ile Gly
275 280 285

Asp Glu Tyr Ala Glu Leu Phe Val Ala Ala Lys Asn Ala Tyr Ser Ala
290 295 300

Val Val Leu Ser Ser Ile Ile Thr Val Ala Glu Thr Glu Thr Asn Ala
305 310 315 320

Lys Leu Ser Ala Ser Met Ile Glu Arg Phe Asp Thr His Glu Glu Asp
325 330 335

Leu Gly Glu Leu Lys Ala Phe Ile Lys Leu His Leu Pro Lys His Tyr
340 345 350

Glu Glu Ile Phe Ser Asn Thr Glu Lys His Gly Tyr Ala Gly Tyr Ile
355 360 365

Asp Gly Lys Thr Lys Gln Ala Asp Phe Tyr Lys Tyr Met Lys Met Thr
370 375 380

Leu Glu Asn Ile Glu Gly Ala Asp Tyr Phe Ile Ala Lys Ile Glu Lys
385 390 395 400

Glu Asn Phe Leu Arg Lys Gln Arg Thr Phe Asp Asn Gly Ala Ile Pro
405 410 415

His Gln Leu His Leu Glu Glu Leu Glu Ala Ile Leu His Gln Gln Ala
420 425 430

Lys Tyr Tyr Pro Phe Leu Lys Glu Asn Tyr Asp Lys Ile Lys Ser Leu
435 440 445

Val Thr Phe Arg Ile Pro Tyr Phe Val Gly Pro Leu Ala Asn Gly Gln
450 455 460

Ser Glu Phe Ala Trp Leu Thr Arg Lys Ala Asp Gly Glu Ile Arg Pro
465 470 475 480

Trp Asn Ile Glu Glu Lys Val Asp Phe Gly Lys Ser Ala Val Asp Phe
485 490 495

Ile Glu Lys Met Thr Asn Lys Asp Thr Tyr Leu Pro Lys Glu Asn Val

500 505 510

Leu Pro Lys His Ser Leu Cys Tyr Gln Lys Tyr Leu Val Tyr Asn Glu
515 520 525

Leu Thr Lys Val Arg Tyr Ile Asn Asp Gln Gly Lys Thr Ser Tyr Phe
530 535 540

Ser Gly Gln Glu Lys Glu Gln Ile Phe Asn Asp Leu Phe Lys Gln Lys
545 550 555 560

Arg Lys Val Lys Lys Lys Asp Leu Glu Leu Phe Leu Arg Asn Met Ser
565 570 575

His Val Glu Ser Pro Thr Ile Glu Gly Leu Glu Asp Ser Phe Asn Ser
580 585 590

Ser Tyr Ser Thr Tyr His Asp Leu Leu Lys Val Gly Ile Lys Gln Glu
595 600 605

Ile Leu Asp Asn Pro Val Asn Thr Glu Met Leu Glu Asn Ile Val Lys
610 615 620

Ile Leu Thr Val Phe Glu Asp Lys Arg Met Ile Lys Glu Gln Leu Gln
625 630 635 640

Gln Phe Ser Asp Val Leu Asp Gly Val Val Leu Lys Lys Leu Glu Arg
645 650 655

Arg His Tyr Thr Gly Trp Gly Arg Leu Ser Ala Lys Leu Leu Met Gly
660 665 670

Ile Arg Asp Lys Gln Ser His Leu Thr Ile Leu Asp Tyr Leu Met Asn
675 680 685

Asp Asp Gly Leu Asn Arg Asn Leu Met Gln Leu Ile Asn Asp Ser Asn
690 695 700

Leu Ser Phe Lys Ser Ile Ile Glu Lys Glu Gln Val Thr Thr Ala Asp
705 710 715 720

Lys Asp Ile Gln Ser Ile Val Ala Asp Leu Ala Gly Ser Pro Ala Ile
725 730 735

Lys Lys Gly Ile Leu Gln Ser Leu Lys Ile Val Asp Glu Leu Val Ser
740 745 750

Val Met Gly Tyr Pro Pro Gln Thr Ile Val Val Glu Met Ala Arg Glu
755 760 765

Asn Gln Thr Thr Gly Lys Gly Lys Asn Asn Ser Arg Pro Arg Tyr Lys

770 775 780

Ser Leu Glu Lys Ala Ile Lys Glu Phe Gly Ser Gln Ile Leu Lys Glu
785 790 795 800

His Pro Thr Asp Asn Gln Glu Leu Arg Asn Asn Arg Leu Tyr Leu Tyr
805 810 815

Tyr Leu Gln Asn Gly Lys Asp Met Tyr Thr Gly Gln Asp Leu Asp Ile
820 825 830

His Asn Leu Ser Asn Tyr Asp Ile Asp His Ile Val Pro Gln Ser Phe
835 840 845

Ile Thr Asp Asn Ser Ile Asp Asn Leu Val Leu Thr Ser Ser Ala Gly
850 855 860

Asn Arg Glu Lys Gly Asp Asp Val Pro Pro Leu Glu Ile Val Arg Lys
865 870 875 880

Arg Lys Val Phe Trp Glu Lys Leu Tyr Gln Gly Asn Leu Met Ser Lys
885 890 895

Arg Lys Phe Asp Tyr Leu Thr Lys Ala Glu Arg Gly Gly Leu Thr Glu
900 905 910

Ala Asp Lys Ala Arg Phe Ile His Arg Gln Leu Val Glu Thr Arg Gln
915 920 925

Ile Thr Lys Asn Val Ala Asn Ile Leu His Gln Arg Phe Asn Tyr Glu
930 935 940

Lys Asp Asp His Gly Asn Thr Met Lys Gln Val Arg Ile Val Thr Leu
945 950 955 960

Lys Ser Ala Leu Val Ser Gln Phe Arg Lys Gln Phe Gln Leu Tyr Lys
965 970 975

Val Arg Asp Val Asn Asp Tyr His His Ala His Asp Ala Tyr Leu Asn
980 985 990

Gly Val Val Ala Asn Thr Leu Leu Lys Val Tyr Pro Gln Leu Glu Pro
995 1000 1005

Glu Phe Val Tyr Gly Asp Tyr His Gln Phe Asp Trp Phe Lys Ala
1010 1015 1020

Asn Lys Ala Thr Ala Lys Lys Gln Phe Tyr Thr Asn Ile Met Leu
1025 1030 1035

Phe Phe Ala Gln Lys Asp Arg Ile Ile Asp Glu Asn Gly Glu Ile

1040 1045 1050

Leu Trp Asp Lys Lys Tyr Leu Asp Thr Val Lys Lys Val Met Ser
1055 1060 1065

Tyr Arg Gln Met Asn Ile Val Lys Lys Thr Glu Ile Gln Lys Gly
1070 1075 1080

Glu Phe Ser Lys Ala Thr Ile Lys Pro Lys Gly Asn Ser Ser Lys
1085 1090 1095

Leu Ile Pro Arg Lys Thr Asn Trp Asp Pro Met Lys Tyr Gly Gly
1100 1105 1110

Leu Asp Ser Pro Asn Met Ala Tyr Ala Val Val Ile Glu Tyr Ala
1115 1120 1125

Lys Gly Lys Asn Lys Leu Val Phe Glu Lys Lys Ile Ile Arg Val
1130 1135 1140

Thr Ile Met Glu Arg Lys Ala Phe Glu Lys Asp Glu Lys Ala Phe
1145 1150 1155

Leu Glu Glu Gln Gly Tyr Arg Gln Pro Lys Val Leu Ala Lys Leu
1160 1165 1170

Pro Lys Tyr Thr Leu Tyr Glu Cys Glu Glu Gly Arg Arg Arg Met
1175 1180 1185

Leu Ala Ser Ala Asn Glu Ala Gln Lys Gly Asn Gln Gln Val Leu
1190 1195 1200

Pro Asn His Leu Val Thr Leu Leu His His Ala Ala Asn Cys Glu
1205 1210 1215

Val Ser Asp Gly Lys Ser Leu Asp Tyr Ile Glu Ser Asn Arg Glu
1220 1225 1230

Met Phe Ala Glu Leu Leu Ala His Val Ser Glu Phe Ala Lys Arg
1235 1240 1245

Tyr Thr Leu Ala Glu Ala Asn Leu Asn Lys Ile Asn Gln Leu Phe
1250 1255 1260

Glu Gln Asn Lys Glu Gly Asp Ile Lys Ala Ile Ala Gln Ser Phe
1265 1270 1275

Val Asp Leu Met Ala Phe Asn Ala Met Gly Ala Pro Ala Ser Phe
1280 1285 1290

Lys Phe Phe Glu Thr Thr Ile Glu Arg Lys Arg Tyr Asn Asn Leu

1295 1300 1305

Lys Glu Leu Leu Asn Ser Thr Ile Ile Tyr Gln Ser Ile Thr Gly
1310 1315 1320

Leu Tyr Glu Ser Arg Lys Arg Leu Asp Asp
1325 1330

<210> 5
<211> 96
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(20)
<223> a, c, u, g, unknown or other

<220>
<221> misc_feature
<222> (1)..(20)
<223> n is a, c, g, or u

<400> 5
nnnnnnnnnn nnnnnnnnnn guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugc 96

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<211> 1082
<212> PRT
<213> Neisseria meningitidis

<400> 6

Met Ala Ala Phe Lys Pro Asn Ser Ile Asn Tyr Ile Leu Gly Leu Asp
1 5 10 15

Ile Gly Ile Ala Ser Val Gly Trp Ala Met Val Glu Ile Asp Glu Glu
20 25 30

Glu Asn Pro Ile Arg Leu Ile Asp Leu Gly Val Arg Val Phe Glu Arg
35 40 45

Ala Glu Val Pro Lys Thr Gly Asp Ser Leu Ala Met Ala Arg Arg Leu
50 55 60

Ala Arg Ser Val Arg Arg Leu Thr Arg Arg Arg Ala His Arg Leu Leu
65 70 75 80

Arg Thr Arg Arg Leu Leu Lys Arg Glu Gly Val Leu Gln Ala Ala Asn
85 90 95

Phe Asp Glu Asn Gly Leu Ile Lys Ser Leu Pro Asn Thr Pro Trp Gln

100 105 110

Leu Arg Ala Ala Ala Leu Asp Arg Lys Leu Thr Pro Leu Glu Trp Ser
115 120 125

Ala Val Leu Leu His Leu Ile Lys His Arg Gly Tyr Leu Ser Gln Arg
130 135 140

Lys Asn Glu Gly Glu Thr Ala Asp Lys Glu Leu Gly Ala Leu Leu Lys
145 150 155 160

Gly Val Ala Gly Asn Ala His Ala Leu Gln Thr Gly Asp Phe Arg Thr
165 170 175

Pro Ala Glu Leu Ala Leu Asn Lys Phe Glu Lys Glu Ser Gly His Ile
180 185 190

Arg Asn Gln Arg Ser Asp Tyr Ser His Thr Phe Ser Arg Lys Asp Leu
195 200 205

Gln Ala Glu Leu Ile Leu Leu Phe Glu Lys Gln Lys Glu Phe Gly Asn
210 215 220

Pro His Val Ser Gly Gly Leu Lys Glu Gly Ile Glu Thr Leu Leu Met
225 230 235 240

Thr Gln Arg Pro Ala Leu Ser Gly Asp Ala Val Gln Lys Met Leu Gly
245 250 255

His Cys Thr Phe Glu Pro Ala Glu Pro Lys Ala Ala Lys Asn Thr Tyr
260 265 270

Thr Ala Glu Arg Phe Ile Trp Leu Thr Lys Leu Asn Asn Leu Arg Ile
275 280 285

Leu Glu Gln Gly Ser Glu Arg Pro Leu Thr Asp Thr Glu Arg Ala Thr
290 295 300

Leu Met Asp Glu Pro Tyr Arg Lys Ser Lys Leu Thr Tyr Ala Gln Ala
305 310 315 320

Arg Lys Leu Leu Gly Leu Glu Asp Thr Ala Phe Phe Lys Gly Leu Arg
325 330 335

Tyr Gly Lys Asp Asn Ala Glu Ala Ser Thr Leu Met Glu Met Lys Ala
340 345 350

Tyr His Ala Ile Ser Arg Ala Leu Glu Lys Glu Gly Leu Lys Asp Lys
355 360 365

Lys Ser Pro Leu Asn Leu Ser Pro Glu Leu Gln Asp Glu Ile Gly Thr

370 375 380

Ala Phe Ser Leu Phe Lys Thr Asp Glu Asp Ile Thr Gly Arg Leu Lys
385 390 395 400

Asp Arg Ile Gln Pro Glu Ile Leu Glu Ala Leu Leu Lys His Ile Ser
405 410 415

Phe Asp Lys Phe Val Gln Ile Ser Leu Lys Ala Leu Arg Arg Ile Val
420 425 430

Pro Leu Met Glu Gln Gly Lys Arg Tyr Asp Glu Ala Cys Ala Glu Ile
435 440 445

Tyr Gly Asp His Tyr Gly Lys Lys Asn Thr Glu Glu Lys Ile Tyr Leu
450 455 460

Pro Pro Ile Pro Ala Asp Glu Ile Arg Asn Pro Val Val Leu Arg Ala
465 470 475 480

Leu Ser Gln Ala Arg Lys Val Ile Asn Gly Val Val Arg Arg Tyr Gly
485 490 495

Ser Pro Ala Arg Ile His Ile Glu Thr Ala Arg Glu Val Gly Lys Ser
500 505 510

Phe Lys Asp Arg Lys Glu Ile Glu Lys Arg Gln Glu Glu Asn Arg Lys
515 520 525

Asp Arg Glu Lys Ala Ala Ala Lys Phe Arg Glu Tyr Phe Pro Asn Phe
530 535 540

Val Gly Glu Pro Lys Ser Lys Asp Ile Leu Lys Leu Arg Leu Tyr Glu
545 550 555 560

Gln Gln His Gly Lys Cys Leu Tyr Ser Gly Lys Glu Ile Asn Leu Gly
565 570 575

Arg Leu Asn Glu Lys Gly Tyr Val Glu Ile Asp His Ala Leu Pro Phe
580 585 590

Ser Arg Thr Trp Asp Asp Ser Phe Asn Asn Lys Val Leu Val Leu Gly
595 600 605

Ser Glu Asn Gln Asn Lys Gly Asn Gln Thr Pro Tyr Glu Tyr Phe Asn
610 615 620

Gly Lys Asp Asn Ser Arg Glu Trp Gln Glu Phe Lys Ala Arg Val Glu
625 630 635 640

Thr Ser Arg Phe Pro Arg Ser Lys Lys Gln Arg Ile Leu Leu Gln Lys

645 650 655

Phe Asp Glu Asp Gly Phe Lys Glu Arg Asn Leu Asn Asp Thr Arg Tyr
660 665 670

Val Asn Arg Phe Leu Cys Gln Phe Val Ala Asp Arg Met Arg Leu Thr
675 680 685

Gly Lys Gly Lys Lys Arg Val Phe Ala Ser Asn Gly Gln Ile Thr Asn
690 695 700

Leu Leu Arg Gly Phe Trp Gly Leu Arg Lys Val Arg Ala Glu Asn Asp
705 710 715 720

Arg His His Ala Leu Asp Ala Val Val Val Ala Cys Ser Thr Val Ala
725 730 735

Met Gln Gln Lys Ile Thr Arg Phe Val Arg Tyr Lys Glu Met Asn Ala
740 745 750

Phe Asp Gly Lys Thr Ile Asp Lys Glu Thr Gly Glu Val Leu His Gln
755 760 765

Lys Thr His Phe Pro Gln Pro Trp Glu Phe Phe Ala Gln Glu Val Met
770 775 780

Ile Arg Val Phe Gly Lys Pro Asp Gly Lys Pro Glu Phe Glu Glu Ala
785 790 795 800

Asp Thr Leu Glu Lys Leu Arg Thr Leu Leu Ala Glu Lys Leu Ser Ser
805 810 815

Arg Pro Glu Ala Val His Glu Tyr Val Thr Pro Leu Phe Val Ser Arg
820 825 830

Ala Pro Asn Arg Lys Met Ser Gly Gln Gly His Met Glu Thr Val Lys
835 840 845

Ser Ala Lys Arg Leu Asp Glu Gly Val Ser Val Leu Arg Val Pro Leu
850 855 860

Thr Gln Leu Lys Leu Lys Asp Leu Glu Lys Met Val Asn Arg Glu Arg
865 870 875 880

Glu Pro Lys Leu Tyr Glu Ala Leu Lys Ala Arg Leu Glu Ala His Lys
885 890 895

Asp Asp Pro Ala Lys Ala Phe Ala Glu Pro Phe Tyr Lys Tyr Asp Lys
900 905 910

Ala Gly Asn Arg Thr Gln Gln Val Lys Ala Val Arg Val Glu Gln Val

915 920 925

Gln Lys Thr Gly Val Trp Val Arg Asn His Asn Gly Ile Ala Asp Asn
930 935 940

Ala Thr Met Val Arg Val Asp Val Phe Glu Lys Gly Asp Lys Tyr Tyr
945 950 955 960

Leu Val Pro Ile Tyr Ser Trp Gln Val Ala Lys Gly Ile Leu Pro Asp
965 970 975

Arg Ala Val Val Gln Gly Lys Asp Glu Glu Asp Trp Gln Leu Ile Asp
980 985 990

Asp Ser Phe Asn Phe Lys Phe Ser Leu His Pro Asn Asp Leu Val Glu
995 1000 1005

Val Ile Thr Lys Lys Ala Arg Met Phe Gly Tyr Phe Ala Ser Cys
1010 1015 1020

His Arg Gly Thr Gly Asn Ile Asn Ile Arg Ile His Asp Leu Asp
1025 1030 1035

His Lys Ile Gly Lys Asn Gly Ile Leu Glu Gly Ile Gly Val Lys
1040 1045 1050

Thr Ala Leu Ser Phe Gln Lys Tyr Gln Ile Asp Glu Leu Gly Lys
1055 1060 1065

Glu Ile Arg Pro Cys Arg Leu Lys Lys Arg Pro Pro Val Arg
1070 1075 1080

<210> 7
<211> 1368
<212> PRT
<213> Streptococcus pyogenes

<400> 7

Met Asp Lys Lys Tyr Ser Ile Gly Leu Asp Ile Gly Thr Asn Ser Val
1 5 10 15

Gly Trp Ala Val Ile Thr Asp Glu Tyr Lys Val Pro Ser Lys Lys Phe
20 25 30

Lys Val Leu Gly Asn Thr Asp Arg His Ser Ile Lys Lys Asn Leu Ile
35 40 45

Gly Ala Leu Leu Phe Asp Ser Gly Glu Thr Ala Glu Ala Thr Arg Leu
50 55 60

Lys Arg Thr Ala Arg Arg Arg Tyr Thr Arg Arg Lys Asn Arg Ile Cys
65 70 75 80

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Tyr Leu Gln Glu Ile Phe Ser Asn Glu Met Ala Lys Val Asp Asp Ser
                85                  90                  95

Phe Phe His Arg Leu Glu Glu Ser Phe Leu Val Glu Glu Asp Lys Lys
            100                 105                 110

His Glu Arg His Pro Ile Phe Gly Asn Ile Val Asp Glu Val Ala Tyr
        115                 120                 125

His Glu Lys Tyr Pro Thr Ile Tyr His Leu Arg Lys Lys Leu Val Asp
    130                 135                 140

Ser Thr Asp Lys Ala Asp Leu Arg Leu Ile Tyr Leu Ala Leu Ala His
145                 150                 155                 160

Met Ile Lys Phe Arg Gly His Phe Leu Ile Glu Gly Asp Leu Asn Pro
                165                 170                 175

Asp Asn Ser Asp Val Asp Lys Leu Phe Ile Gln Leu Val Gln Thr Tyr
            180                 185                 190

Asn Gln Leu Phe Glu Glu Asn Pro Ile Asn Ala Ser Gly Val Asp Ala
        195                 200                 205

Lys Ala Ile Leu Ser Ala Arg Leu Ser Lys Ser Arg Arg Leu Glu Asn
    210                 215                 220

Leu Ile Ala Gln Leu Pro Gly Glu Lys Lys Asn Gly Leu Phe Gly Asn
225                 230                 235                 240

Leu Ile Ala Leu Ser Leu Gly Leu Thr Pro Asn Phe Lys Ser Asn Phe
                245                 250                 255

Asp Leu Ala Glu Asp Ala Lys Leu Gln Leu Ser Lys Asp Thr Tyr Asp
            260                 265                 270

Asp Asp Leu Asp Asn Leu Leu Ala Gln Ile Gly Asp Gln Tyr Ala Asp
        275                 280                 285

Leu Phe Leu Ala Ala Lys Asn Leu Ser Asp Ala Ile Leu Leu Ser Asp
    290                 295                 300

Ile Leu Arg Val Asn Thr Glu Ile Thr Lys Ala Pro Leu Ser Ala Ser
305                 310                 315                 320

Met Ile Lys Arg Tyr Asp Glu His His Gln Asp Leu Thr Leu Leu Lys
                325                 330                 335

Ala Leu Val Arg Gln Gln Leu Pro Glu Lys Tyr Lys Glu Ile Phe Phe
            340                 345                 350
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Asp Gln Ser Lys Asn Gly Tyr Ala Gly Tyr Ile Asp Gly Gly Ala Ser
        355                 360                 365

Gln Glu Glu Phe Tyr Lys Phe Ile Lys Pro Ile Leu Glu Lys Met Asp
    370                 375                 380

Gly Thr Glu Glu Leu Leu Val Lys Leu Asn Arg Glu Asp Leu Leu Arg
385                 390                 395                 400

Lys Gln Arg Thr Phe Asp Asn Gly Ser Ile Pro His Gln Ile His Leu
                405                 410                 415

Gly Glu Leu His Ala Ile Leu Arg Arg Gln Glu Asp Phe Tyr Pro Phe
            420                 425                 430

Leu Lys Asp Asn Arg Glu Lys Ile Glu Lys Ile Leu Thr Phe Arg Ile
        435                 440                 445

Pro Tyr Tyr Val Gly Pro Leu Ala Arg Gly Asn Ser Arg Phe Ala Trp
    450                 455                 460

Met Thr Arg Lys Ser Glu Glu Thr Ile Thr Pro Trp Asn Phe Glu Glu
465                 470                 475                 480

Val Val Asp Lys Gly Ala Ser Ala Gln Ser Phe Ile Glu Arg Met Thr
                485                 490                 495

Asn Phe Asp Lys Asn Leu Pro Asn Glu Lys Val Leu Pro Lys His Ser
            500                 505                 510

Leu Leu Tyr Glu Tyr Phe Thr Val Tyr Asn Glu Leu Thr Lys Val Lys
        515                 520                 525

Tyr Val Thr Glu Gly Met Arg Lys Pro Ala Phe Leu Ser Gly Glu Gln
    530                 535                 540

Lys Lys Ala Ile Val Asp Leu Leu Phe Lys Thr Asn Arg Lys Val Thr
545                 550                 555                 560

Val Lys Gln Leu Lys Glu Asp Tyr Phe Lys Lys Ile Glu Cys Phe Asp
                565                 570                 575

Ser Val Glu Ile Ser Gly Val Glu Asp Arg Phe Asn Ala Ser Leu Gly
            580                 585                 590

Thr Tyr His Asp Leu Leu Lys Ile Ile Lys Asp Lys Asp Phe Leu Asp
        595                 600                 605

Asn Glu Glu Asn Glu Asp Ile Leu Glu Asp Ile Val Leu Thr Leu Thr
    610                 615                 620
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Leu Phe Glu Asp Arg Glu Met Ile Glu Glu Arg Leu Lys Thr Tyr Ala
625                 630                 635                 640

His Leu Phe Asp Asp Lys Val Met Lys Gln Leu Lys Arg Arg Arg Tyr
                645                 650                 655

Thr Gly Trp Gly Arg Leu Ser Arg Lys Leu Ile Asn Gly Ile Arg Asp
            660                 665                 670

Lys Gln Ser Gly Lys Thr Ile Leu Asp Phe Leu Lys Ser Asp Gly Phe
        675                 680                 685

Ala Asn Arg Asn Phe Met Gln Leu Ile His Asp Asp Ser Leu Thr Phe
    690                 695                 700

Lys Glu Asp Ile Gln Lys Ala Gln Val Ser Gly Gln Gly Asp Ser Leu
705                 710                 715                 720

His Glu His Ile Ala Asn Leu Ala Gly Ser Pro Ala Ile Lys Lys Gly
                725                 730                 735

Ile Leu Gln Thr Val Lys Val Val Asp Glu Leu Val Lys Val Met Gly
            740                 745                 750

Arg His Lys Pro Glu Asn Ile Val Ile Glu Met Ala Arg Glu Asn Gln
        755                 760                 765

Thr Thr Gln Lys Gly Gln Lys Asn Ser Arg Glu Arg Met Lys Arg Ile
    770                 775                 780

Glu Glu Gly Ile Lys Glu Leu Gly Ser Gln Ile Leu Lys Glu His Pro
785                 790                 795                 800

Val Glu Asn Thr Gln Leu Gln Asn Glu Lys Leu Tyr Leu Tyr Tyr Leu
                805                 810                 815

Gln Asn Gly Arg Asp Met Tyr Val Asp Gln Glu Leu Asp Ile Asn Arg
            820                 825                 830

Leu Ser Asp Tyr Asp Val Asp His Ile Val Pro Gln Ser Phe Leu Lys
        835                 840                 845

Asp Asp Ser Ile Asp Asn Lys Val Leu Thr Arg Ser Asp Lys Asn Arg
    850                 855                 860

Gly Lys Ser Asp Asn Val Pro Ser Glu Glu Val Val Lys Lys Met Lys
865                 870                 875                 880

Asn Tyr Trp Arg Gln Leu Leu Asn Ala Lys Leu Ile Thr Gln Arg Lys
                885                 890                 895
```

```
Phe Asp Asn Leu Thr Lys Ala Glu Arg Gly Gly Leu Ser Glu Leu Asp
            900                 905                 910

Lys Ala Gly Phe Ile Lys Arg Gln Leu Val Glu Thr Arg Gln Ile Thr
        915                 920                 925

Lys His Val Ala Gln Ile Leu Asp Ser Arg Met Asn Thr Lys Tyr Asp
    930                 935                 940

Glu Asn Asp Lys Leu Ile Arg Glu Val Lys Val Ile Thr Leu Lys Ser
945                 950                 955                 960

Lys Leu Val Ser Asp Phe Arg Lys Asp Phe Gln Phe Tyr Lys Val Arg
                965                 970                 975

Glu Ile Asn Asn Tyr His His Ala His Asp Ala Tyr Leu Asn Ala Val
            980                 985                 990

Val Gly Thr Ala Leu Ile Lys Lys  Tyr Pro Lys Leu Glu  Ser Glu Phe
        995                 1000                1005

Val Tyr  Gly Asp Tyr Lys Val  Tyr Asp Val Arg Lys  Met Ile Ala
    1010                1015                1020

Lys Ser  Glu Gln Glu Ile Gly  Lys Ala Thr Ala Lys  Tyr Phe Phe
    1025                1030                1035

Tyr Ser  Asn Ile Met Asn Phe  Phe Lys Thr Glu Ile  Thr Leu Ala
    1040                1045                1050

Asn Gly  Glu Ile Arg Lys Arg  Pro Leu Ile Glu Thr  Asn Gly Glu
    1055                1060                1065

Thr Gly  Glu Ile Val Trp Asp  Lys Gly Arg Asp Phe  Ala Thr Val
    1070                1075                1080

Arg Lys  Val Leu Ser Met Pro  Gln Val Asn Ile Val  Lys Lys Thr
    1085                1090                1095

Glu Val  Gln Thr Gly Gly Phe  Ser Lys Glu Ser Ile  Leu Pro Lys
    1100                1105                1110

Arg Asn  Ser Asp Lys Leu Ile  Ala Arg Lys Lys Asp  Trp Asp Pro
    1115                1120                1125

Lys Lys  Tyr Gly Gly Phe Asp  Ser Pro Thr Val Ala  Tyr Ser Val
    1130                1135                1140

Leu Val  Val Ala Lys Val Glu  Lys Gly Lys Ser Lys  Lys Leu Lys
    1145                1150                1155
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Ser Val Lys Glu Leu Leu Gly Ile Thr Ile Met Glu Arg Ser Ser
1160 1165 1170

Phe Glu Lys Asn Pro Ile Asp Phe Leu Glu Ala Lys Gly Tyr Lys
1175 1180 1185

Glu Val Lys Lys Asp Leu Ile Ile Lys Leu Pro Lys Tyr Ser Leu
1190 1195 1200

Phe Glu Leu Glu Asn Gly Arg Lys Arg Met Leu Ala Ser Ala Gly
1205 1210 1215

Glu Leu Gln Lys Gly Asn Glu Leu Ala Leu Pro Ser Lys Tyr Val
1220 1225 1230

Asn Phe Leu Tyr Leu Ala Ser His Tyr Glu Lys Leu Lys Gly Ser
1235 1240 1245

Pro Glu Asp Asn Glu Gln Lys Gln Leu Phe Val Glu Gln His Lys
1250 1255 1260

His Tyr Leu Asp Glu Ile Ile Glu Gln Ile Ser Glu Phe Ser Lys
1265 1270 1275

Arg Val Ile Leu Ala Asp Ala Asn Leu Asp Lys Val Leu Ser Ala
1280 1285 1290

Tyr Asn Lys His Arg Asp Lys Pro Ile Arg Glu Gln Ala Glu Asn
1295 1300 1305

Ile Ile His Leu Phe Thr Leu Thr Asn Leu Gly Ala Pro Ala Ala
1310 1315 1320

Phe Lys Tyr Phe Asp Thr Thr Ile Asp Arg Lys Arg Tyr Thr Ser
1325 1330 1335

Thr Lys Glu Val Leu Asp Ala Thr Leu Ile His Gln Ser Ile Thr
1340 1345 1350

Gly Leu Tyr Glu Thr Arg Ile Asp Leu Ser Gln Leu Gly Gly Asp
1355 1360 1365

<210> 8
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>

<221> VARIANT
<222> (2)..(2)
<223> Xaa is Ile or "Val" or "Met" or "Leu" or "Thr"

<220>
<221> VARIANT
<222> (4)..(4)
<223> Xaa is Thr or "Ile" or "Val" or "Ser" or "Asn" or "Tyr" or "Glu" or "Leu"

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa is Asn or "Ser" or "Gly" or "Ala" or "Asp" or "Thr" or "Arg" or "Met" or "Phe"

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa is Ser or "Tyr" or "Asn" or "Phe"

<220>
<221> VARIANT
<222> (7)..(7)
<223> Xaa is Val or "Ile" or "Leu" or "Cys" or "Thr" or "Phe"

<220>
<221> VARIANT
<222> (9)..(9)
<223> Xaa is Trp or "Phe" or "Val" or "Tyr" or "Ser" or "Leu"

<220>
<221> VARIANT
<222> (10)..(10)
<223> Xaa is Ala or "Ser" or "Cys" or "Val" or "Gly"

<220>
<221> VARIANT
<222> (11)..(11)
<223> Xaa is Val or "Ile" or "Leu" or "Ala" or "Met" or "His"

<220>
<221> VARIANT
<222> (12)..(12)
<223> Xaa is any amino acid or absent

<400> 8

Asp Xaa Gly Xaa Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa
1 5 10

<210> 9
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> VARIANT
<222> (2)..(2)
<223> Xaa is Ile or "Val" or "Met" or "Leu" or "Thr"

<220>
<221> VARIANT

<222> (4)..(4)
<223> Xaa is Thr or "Ile" or "Val" or "Ser" or "Asn" or "Tyr" or "Glu" or "Leu"

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa is Asn or "Ser" or "Gly" or "Ala" or "Asp" or "Thr" or "Arg" or "Met" or "Phe"

<220>
<221> VARIANT
<222> (7)..(7)
<223> Xaa is Val or "Ile" or "Leu" or "Cys" or "Thr" or "Phe"

<220>
<221> VARIANT
<222> (9)..(9)
<223> Xaa is Trp or "Phe" or "Val" or "Tyr" or "Ser" or "Leu"

<220>
<221> VARIANT
<222> (10)..(10)
<223> Xaa is Ala or "Ser" or "Cys" or "Val" or "Gly"

<220>
<221> VARIANT
<222> (11)..(11)
<223> Xaa is Val or "Ile" or "Leu" or "Ala" or "Met" or "His"

<220>
<221> VARIANT
<222> (12)..(12)
<223> Xaa is any amino acid or absent

<400> 9

Asp Xaa Gly Xaa Xaa Ser Xaa Gly Xaa Xaa Xaa Xaa
1 5 10

<210> 10
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> VARIANT
<222> (4)..(4)
<223> Xaa is Thr or "Ile" or "Val" or "Ser" or "Asn" or "Tyr" or "Glu" or "Leu"

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa is Asn or "Ser" or "Gly" or "Ala" or "Asp" or "Thr" or "Arg" or "Met" or "Phe"

<220>
<221> VARIANT
<222> (11)..(11)
<223> Xaa is Val or "Ile" or "Leu" or "Ala" or "Met" or "His"

<220>

<221> VARIANT
<222> (12)..(12)
<223> Xaa is any amino acid or absent

<400> 10

Asp Ile Gly Xaa Xaa Ser Val Gly Trp Ala Xaa Xaa
1 5 10

<210> 11
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> VARIANT
<222> (12)..(12)
<223> Any non-polar alkyl amino acid or a hydroxyl amino acid

<400> 11

Asp Ile Gly Thr Asn Ser Val Gly Trp Ala Val Xaa
1 5 10

<210> 12
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> VARIANT
<222> (2)..(2)
<223> Xaa is Val or "His

<220>
<221> VARIANT
<222> (3)..(3)
<223> Xaa is Ile or "Leu" or "Val"

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa is Met or "Thr"

<400> 12

Ile Xaa Xaa Glu Xaa Ala Arg Glu
1 5

<210> 13
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> VARIANT
<222> (3)..(3)
<223> Xaa is Ile or "Leu" or "Val"

<400> 13

Ile Val Xaa Glu Met Ala Arg Glu
1 5

<210> 14
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> VARIANT
<222> (4)..(4)
<223> Xaa is His or "Leu"

<220>
<221> VARIANT
<222> (7)..(7)
<223> Xaa is Arg or "Val"

<220>
<221> VARIANT
<222> (8)..(8)
<223> Xaa is Glu or "Val"

<400> 14

His His Ala Xaa Asp Ala Xaa Xaa
1 5

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

<220>
<223> Synthetic peptide

<400> 15

His His Ala His Asp Ala Tyr Leu
1 5

<210> 16
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> VARIANT
<222> (2)..(2)

<223> Xaa is Lys or "Pro"

<220>
<221> VARIANT
<222> (4)..(4)
<223> Xaa is Val or "Leu" or "Ile" or "Phe"

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa is Gly or "Ala" or "Ser"

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa is Leu or "Ile" or "Val" or "Phe"

<220>
<221> VARIANT
<222> (7)..(26)
<223> Any amino acid and this region may encompass 5-20 residues wherein some positions may be absent

<220>
<221> VARIANT
<222> (29)..(29)
<223> Xaa is Asp or "Glu" or "Asn" or "Gln"

<400> 16

Lys Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Thr Asp Xaa Tyr
20 25 30

<210> 17
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> VARIANT
<222> (1)..(1)
<223> Xaa is Asp or "Glu" or "Gln" or "Asn"

<220>
<221> VARIANT
<222> (2)..(2)
<223> Xaa is Leu or "Ile" or "Arg" or "Gln" or "Val" or "Met" or "Lys"

<220>
<221> VARIANT
<222> (3)..(3)
<223> Xaa is Asp or "Glu"

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa is Ile or "Val" or "Thr" or "Ala" or "Leu"

<220>

<221> VARIANT
<222> (6)..(6)
<223> Xaa is Val or "Tyr" or "Ile" or "Leu" or "Phe" or "Trp"

<220>
<221> VARIANT
<222> (8)..(8)
<223> Xaa is Gln or "His" or "Arg" or "Lys" or "Tyr" or "Ile" or "Leu" or "Phe" or "Trp"

<220>
<221> VARIANT
<222> (9)..(9)
<223> Xaa is Ser or "Ala" or "Asp" or "Thr" or "Lys"

<220>
<221> VARIANT
<222> (10)..(10)
<223> Xaa is Phe or "Leu" or "Val" or "Lys" or "Tyr" or "Met" or "Ile" or "Arg" or "Ala" or "Glu" or "Asp" or "Gln"

<220>
<221> VARIANT
<222> (11)..(11)
<223> Xaa is Leu or "Arg" or "Thr" or "Ile" or "Val" or "Ser" or "Cys" or "Tyr" or "Lys" or "Phe" or "Gly"

<220>
<221> VARIANT
<222> (12)..(12)
<223> Xaa is Lys or "Gln" or "Tyr" or "Thr" or "Phe" or "Leu" or "Trp" or "Met" or "Ala" or "Glu" or "Gly" or "Ser"

<220>
<221> VARIANT
<222> (13)..(13)
<223> Xaa is Asp or "Ser" or "Asn" or "Arg" or "Leu" or "Thr"

<220>
<221> VARIANT
<222> (14)..(14)
<223> Xaa is Asp or "Asn" or "Ser"

<220>
<221> VARIANT
<222> (15)..(15)
<223> Xaa is Ser or "Ala" or "Thr" or "Gly" or "Arg"

<220>
<221> VARIANT
<222> (16)..(16)
<223> Xaa is Ile or "Leu" or "Phe" or "Ser" or "Arg" or "Tyr" or "Gln" or "Trp" or "Asp" or "Lys" or "His"

<220>
<221> VARIANT
<222> (17)..(17)
<223> Xaa is Asp or "Ser" or "Ile" or "Asn" or "Glu" or "Ala" or "His" or "Phe" or "Leu" or "Gln" or "Met" or "Gly" or "Tyr" or "Val"

<220>
<221> VARIANT
<222> (19)..(19)
<223> Xaa is Lys or "Leu" or "Arg" or "Met" or "Thr" or "Phe"

<220>
<221> VARIANT
<222> (20)..(20)

<223> Xaa is Val or "Leu" or "Ile" or "Ala" or "Thr"

<220>
<221> VARIANT
<222> (21)..(21)
<223> Xaa is Leu or "Ile" or "Val" or "Ala"

<220>
<221> VARIANT
<222> (22)..(22)
<223> Xaa is Thr or "Val" or "Cys" or "Glu" or "Ser" or "Ala"

<220>
<221> VARIANT
<222> (23)..(23)
<223> Xaa is Arg or "Phe" or "Thr" or "Trp" or "Glu" or "Leu" or "Asn" or "Cys" or "Lys" or "Val" or "Ser" or "Gln" or "Ile" or "Tyr" or "His" or "Ala"

<220>
<221> VARIANT
<222> (24)..(24)
<223> Xaa is Ser or "Pro" or "Arg" or "Lys" or "Asn" or "Ala" or "His" or "Gln" or "Gly" or "Leu"

<220>
<221> VARIANT
<222> (25)..(25)
<223> Xaa is Asp or "Gly" or "Thr" or "Asn" or "Ser" or "Lys" or "Ala" or "Ile" or "Glu" or "Leu" or "Gln" or " Arg" or "Tyr"

<220>
<221> VARIANT
<222> (26)..(26)
<223> Xaa is Lys or "Val" or "Ala" or "Glu" or "Tyr" or "Ile" or "Cys" or "Leu" or "Ser" or "Thr" or "Gly" or "Lys" or "Met" or "Asp" or "Phe"

<400> 17

Xaa Xaa Xaa His Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Asn Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn
20 25

<210> 18
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> VARIANT
<222> (1)..(1)
<223> Xaa is Asp or"Glu

<220>
<221> VARIANT
<222> (2)..(2)
<223> Xaa is Leu or "Ile" or "Arg" or "Gln" or "Val" or "Met" or "Lys"

<220>

<221> VARIANT
<222> (3)..(3)
<223> Xaa is Asp or "Glu

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa is Ile or "Val" or "Thr" or "Ala" or "Leu"

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa is Val or "Tyr" or "Ile" or "Leu" or "Phe" or "Trp"

<220>
<221> VARIANT
<222> (8)..(8)
<223> Xaa is Gln or "His" or "Arg" or "Lys" or "Tyr" or "Ile" or "Leu" or "Phe" or "Trp"

<220>
<221> VARIANT
<222> (10)..(10)
<223> Xaa is Phe or "Leu" or "Val" or "Lys" or "Tyr" or "Met" or "Ile" or "Arg" or "Ala" or "Glu" or "Asp" or "Gln"

<220>
<221> VARIANT
<222> (11)..(11)
<223> Xaa is Leu or "Arg" or "Thr" or "Ile" or "Val" or "Ser" or "Cys" or "Tyr" or "Lys" or "Phe" or "Gly"

<220>
<221> VARIANT
<222> (12)..(12)
<223> Xaa is Lys or "Gln" or "Tyr" or "Thr" or "Phe" or "Leu" or "Trp" or "Met" or "Ala" or "Glu" or "Gly" or "Ser"

<220>
<221> VARIANT
<222> (16)..(16)
<223> Xaa is Ile or "Leu" or "Phe" or "Ser" or "Arg" or "Tyr" or "Gln" or "Trp" or "Asp" or "Lys" or "His"

<220>
<221> VARIANT
<222> (17)..(17)
<223> Xaa is Asp or "Ser" or "Ile" or "Asn" or "Glu" or "Ala" or "His" or "Phe" or "Leu" or "Gln" or "Met" or "Gly" or Tyr" or "Val"

<220>
<221> VARIANT
<222> (22)..(22)
<223> Xaa is Thr or "Val" or "Cys" or "Glu" or "Ser" or "Ala"

<220>
<221> VARIANT
<222> (23)..(23)
<223> Xaa is Arg or "Phe" or "Thr" or "Trp" or "Glu" or "Leu" or "Asn" or "Cys" or "Lys" or "Val" or "Ser" or "Gln" or "Ile" or "Tyr" or "His" or "Ala"

<220>
<221> VARIANT
<222> (24)..(24)
<223> Xaa is Ser or "Pro" or "Arg" or "Lys" or "Asn" or "Ala" or "His" or "Gln" or "Gly" or "Leu"

<220>
<221> VARIANT
<222> (25)..(25)
<223> Xaa is Asp or "Gly" or "Thr" or "Asn" or "Ser" or "Lys" or "Ala" or "Ile" or "Glu" or "Leu" or "Gln" or "Arg" or "Tyr"

<220>
<221> VARIANT
<222> (26)..(26)
<223> Xaa is Lys or "Val" or "Ala" or "Glu" or "Tyr" or "Ile" or "Cys" or "Leu" or "Ser" or "Thr" or "Gly" or "Lys" "Met" or "Asp" or "Phe"

<400> 18

Xaa Xaa Xaa His Xaa Xaa Pro Xaa Ser Xaa Xaa Xaa Asp Asp Ser Xaa
1 5 10 15

Xaa Asn Lys Val Leu Xaa Xaa Xaa Xaa Xaa Asn
20 25

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

<220>
<223> Synthetic peptide

<220>
<221> VARIANT
<222> (1)..(1)
<223> Xaa is Asp or "Glu"

<220>
<221> VARIANT
<222> (3)..(3)
<223> Xaa is Asp or "Glu"

<220>
<221> VARIANT
<222> (8)..(8)
<223> Xaa is Gln or "His" or "Arg" or "Lys" or "Tyr" or "Ile" or "Leu" or "Trp"

<220>
<221> VARIANT
<222> (10)..(10)
<223> Xaa is Phe or "Leu" or "Val" or "Lys" or "Tyr" or "Met" or "Ile" or "Arg" or "Ala" or "Glu" or "Asp" or "Gln"

<220>
<221> VARIANT
<222> (11)..(11)
<223> Xaa is Leu or "Arg" or "Thr" or "Ile" or "Val" or "Ser" or "Cys" or "Tyr" or "Lys" or "Phe" or "Gly"

<220>
<221> VARIANT
<222> (12)..(12)
<223> Xaa is Lys or "Gln" or "Tyr" or "Thr" or "Phe" or "Leu" or "Trp" or "Met" or "Ala" or "Glu" or "Gly" or "Ser"

<220>
<221> VARIANT

<222> (16)..(16)
<223> Xaa is Ile or "Leu" or "Phe" or "Ser" or "Arg" or "Tyr" or "Gln" or "Trp" or "Asp" or "Lys" or "His"

<220>
<221> VARIANT
<222> (17)..(17)
<223> Xaa is Asp or "Ser" or "Ile" or "Asn" or "Glu" or "Ala" or "His" or "Phe" or "Leu" or "Gln" or "Met" or "Gly" or "Tyr" or "Val"

<220>
<221> VARIANT
<222> (23)..(23)
<223> Xaa is Arg or "Phe" or "Thr" or "Trp" or "Glu" or "Leu" or "Asn" or "Cys" or "Lys" or "Val" or "Ser" or "Gln" or "Ile" or "Tyr" or "His" or "Ala"

<220>
<221> VARIANT
<222> (24)..(24)
<223> Xaa is Ser or "Pro" or "Arg" or "Lys" or "Asn" or "Ala" or "His" or "Gln" or "Gly" or "Leu"

<220>
<221> VARIANT
<222> (25)..(25)
<223> Xaa is Asp or "Gly" or "Thr" or "Asn" or "Ser" or "Lys" or "Ala" or "Ile" or "Glu" or "Leu" or "Gln" or "Arg" or "Tyr"

<220>
<221> VARIANT
<222> (26)..(26)
<223> Xaa is Lys or "Val" or "Ala" or "Glu" or "Tyr" or "Ile" or "Cys" or "Leu" or "Ser" or "Thr" or "Gly" or "Lys" or "Met" or "Asp" or "Phe"

<400> 19

Xaa Val Xaa His Ile Val Pro Xaa Ser Xaa Xaa Xaa Asp Asp Ser Xaa
1 5 10 15

Xaa Asn Lys Val Leu Thr Xaa Xaa Xaa Xaa Asn
20 25

<210> 20
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> VARIANT
<222> (2)..(2)
<223> Xaa is Ile or "Val"

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa is Ile or "Val"

<220>
<221> VARIANT
<222> (9)..(9)

<223> Xaa is Ala or "Ser"

<220>
<221> VARIANT
<222> (11)..(11)
<223> Xaa is Ile or "Leu"

<220>
<221> VARIANT
<222> (12)..(12)
<223> Xaa is Lys or "Thr"

<220>
<221> VARIANT
<222> (14)..(14)
<223> Xaa is Asp or "Asn"

<220>
<221> VARIANT
<222> (19)..(19)
<223> Xaa is Arg or "Lys" or "Leu"

<220>
<221> VARIANT
<222> (22)..(22)
<223> Xaa is Thr or "Val"

<220>
<221> VARIANT
<222> (23)..(23)
<223> Xaa is Ser or "Arg"

<220>
<221> VARIANT
<222> (25)..(25)
<223> Xaa is Lys or "Asp" or "Ala"

<220>
<221> VARIANT
<222> (26)..(26)
<223> Xaa is Glu or "Lys" or "Gly" or "Asn"

<400> 20

Asp Xaa Asp His Ile Xaa Pro Gln Xaa Phe Xaa Xaa Asp Xaa Ser Ile
1 5 10 15

Asp Asn Xaa Val Leu Xaa Xaa Ser Xaa Xaa Asn
20 25

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

<220>
<223> Synthetic polypeptide

<220>
<221> VARIANT
<222> (8)..(8)
<223> Xaa is Lys or "Arg"

<220>
<221> VARIANT

<222> (12)..(12)
<223> Xaa is Val or "Thr"

<220>
<221> VARIANT
<222> (13)..(13)
<223> Xaa is Gly or "Asp"

<220>
<221> VARIANT
<222> (14)..(14)
<223> Xaa is Glu or "Gln" or "Asp"

<220>
<221> VARIANT
<222> (15)..(15)
<223> Xaa is Glu or "Asp"

<220>
<221> VARIANT
<222> (19)..(19)
<223> Xaa is Asp or "Asn" or "His"

<220>
<221> VARIANT
<222> (20)..(20)
<223> Xaa is Tyr or "Arg" or "Asn"

<220>
<221> VARIANT
<222> (23)..(23)
<223> Xaa is Gln or "Asp" or "Asn"

<220>
<221> VARIANT
<222> (25)..(64)
<223> Any amino acid and this region may encompass 15-40 residues wherein some positions may be absent

<220>
<221> VARIANT
<222> (67)..(67)
<223> Xaa is Gly or "Glu"

<220>
<221> VARIANT
<222> (69)..(69)
<223> Xaa is Ser or "Gly"

<220>
<221> VARIANT
<222> (71)..(71)
<223> Xaa is Asp or "Asn"

<400> 21

Leu Tyr Tyr Leu Gln Asn Gly Xaa Asp Met Tyr Xaa Xaa Xaa Xaa Leu
1 5 10 15

Asp Ile Xaa Xaa Leu Ser Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Asn Arg Xaa Lys Xaa Asp Xaa Val Pro
65 70

<210> 22
<211> 4107
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 22
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attacggacg agtacaaggt accctccaaa aaatttaaag tgctgggtaa cacggacaga 120

cactctataa agaaaaatct tattggagcc ttgctgttcg actcaggcga gacagccgaa 180

gccacaaggt tgaagcggac cgccaggagg cggtatacca ggagaaagaa ccgcatatgc 240

tacctgcaag aaatcttcag taacgagatg gcaaaggttg acgatagctt tttccatcgc 300

ctggaagaat cctttcttgt tgaggaagac aagaagcacg aacggcaccc catctttggc 360

aatattgtcg acgaagtggc atatcacgaa aagtacccga ctatctacca cctcaggaag 420

aagctggtgg actctaccga taaggcggac ctcagactta tttatttggc actcgcccac 480

atgattaaat ttagaggaca tttcttgatc gagggcgacc tgaacccgga caacagtgac 540

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Gly Ala Leu Leu Phe Asp Ser Gly Glu Thr Ala Glu Ala Thr Arg Leu
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Lys Arg Thr Ala Arg Arg Arg Tyr Thr Arg Arg Lys Asn Arg Ile Cys
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Tyr Leu Gln Glu Ile Phe Ser Asn Glu Met Ala Lys Val Asp Asp Ser
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Phe Phe His Arg Leu Glu Glu Ser Phe Leu Val Glu Glu Asp Lys Lys
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His Glu Arg His Pro Ile Phe Gly Asn Ile Val Asp Glu Val Ala Tyr
115 120 125

His Glu Lys Tyr Pro Thr Ile Tyr His Leu Arg Lys Lys Leu Val Asp
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Ser Thr Asp Lys Ala Asp Leu Arg Leu Ile Tyr Leu Ala Leu Ala His
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Met Ile Lys Phe Arg Gly His Phe Leu Ile Glu Gly Asp Leu Asn Pro

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Lys Ala Ile Leu Ser Ala Arg Leu Ser Lys Ser Arg Arg Leu Glu Asn
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Leu Ile Ala Gln Leu Pro Gly Glu Lys Lys Asn Gly Leu Phe Gly Asn
225                 230                 235                 240

Leu Ile Ala Leu Ser Leu Gly Leu Thr Pro Asn Phe Lys Ser Asn Phe
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Asp Leu Ala Glu Asp Ala Lys Leu Gln Leu Ser Lys Asp Thr Tyr Asp
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Asp Asp Leu Asp Asn Leu Leu Ala Gln Ile Gly Asp Gln Tyr Ala Asp
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Leu Phe Leu Ala Ala Lys Asn Leu Ser Asp Ala Ile Leu Leu Ser Asp
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Ile Leu Arg Val Asn Thr Glu Ile Thr Lys Ala Pro Leu Ser Ala Ser
305                 310                 315                 320

Met Ile Lys Arg Tyr Asp Glu His His Gln Asp Leu Thr Leu Leu Lys
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Ala Leu Val Arg Gln Gln Leu Pro Glu Lys Tyr Lys Glu Ile Phe Phe
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Asp Gln Ser Lys Asn Gly Tyr Ala Gly Tyr Ile Asp Gly Gly Ala Ser
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Gln Glu Glu Phe Tyr Lys Phe Ile Lys Pro Ile Leu Glu Lys Met Asp
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Gly Thr Glu Glu Leu Leu Val Lys Leu Asn Arg Glu Asp Leu Leu Arg
385                 390                 395                 400

Lys Gln Arg Thr Phe Asp Asn Gly Ser Ile Pro His Gln Ile His Leu
                405                 410                 415

Gly Glu Leu His Ala Ile Leu Arg Arg Gln Glu Asp Phe Tyr Pro Phe
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Leu Lys Asp Asn Arg Glu Lys Ile Glu Lys Ile Leu Thr Phe Arg Ile
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Val Val Asp Lys Gly Ala Ser Ala Gln Ser Phe Ile Glu Arg Met Thr
485 490 495

Asn Phe Asp Lys Asn Leu Pro Asn Glu Lys Val Leu Pro Lys His Ser
500 505 510

Leu Leu Tyr Glu Tyr Phe Thr Val Tyr Asn Glu Leu Thr Lys Val Lys
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Tyr Val Thr Glu Gly Met Arg Lys Pro Ala Phe Leu Ser Gly Glu Gln
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Lys Lys Ala Ile Val Asp Leu Leu Phe Lys Thr Asn Arg Lys Val Thr
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Val Lys Gln Leu Lys Glu Asp Tyr Phe Lys Lys Ile Glu Cys Phe Asp
565 570 575

Ser Val Glu Ile Ser Gly Val Glu Asp Arg Phe Asn Ala Ser Leu Gly
580 585 590

Thr Tyr His Asp Leu Leu Lys Ile Ile Lys Asp Lys Asp Phe Leu Asp
595 600 605

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Leu Phe Glu Asp Arg Glu Met Ile Glu Glu Arg Leu Lys Thr Tyr Ala
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His Leu Phe Asp Asp Lys Val Met Lys Gln Leu Lys Arg Arg Arg Tyr
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Thr Gly Trp Gly Arg Leu Ser Arg Lys Leu Ile Asn Gly Ile Arg Asp
660 665 670

Lys Gln Ser Gly Lys Thr Ile Leu Asp Phe Leu Lys Ser Asp Gly Phe
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Ala Asn Arg Asn Phe Met Gln Leu Ile His Asp Asp Ser Leu Thr Phe
690 695 700

Lys Glu Asp Ile Gln Lys Ala Gln Val Ser Gly Gln Gly Asp Ser Leu

705 710 715 720

His Glu His Ile Ala Asn Leu Ala Gly Ser Pro Ala Ile Lys Lys Gly
725 730 735

Ile Leu Gln Thr Val Lys Val Val Asp Glu Leu Val Lys Val Met Gly
740 745 750

Arg His Lys Pro Glu Asn Ile Val Ile Glu Met Ala Arg Glu Asn Gln
755 760 765

Thr Thr Gln Lys Gly Gln Lys Asn Ser Arg Glu Arg Met Lys Arg Ile
770 775 780

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785 790 795 800

Val Glu Asn Thr Gln Leu Gln Asn Glu Lys Leu Tyr Leu Tyr Tyr Leu
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Gln Asn Gly Arg Asp Met Tyr Val Asp Gln Glu Leu Asp Ile Asn Arg
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Leu Ser Asp Tyr Asp Val Asp His Ile Val Pro Gln Ser Phe Leu Lys
835 840 845

Asp Asp Ser Ile Asp Asn Lys Val Leu Thr Arg Ser Asp Lys Asn Arg
850 855 860

Gly Lys Ser Asp Asn Val Pro Ser Glu Glu Val Val Lys Lys Met Lys
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Asn Tyr Trp Arg Gln Leu Leu Asn Ala Lys Leu Ile Thr Gln Arg Lys
885 890 895

Phe Asp Asn Leu Thr Lys Ala Glu Arg Gly Gly Leu Ser Glu Leu Asp
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Lys Ala Gly Phe Ile Lys Arg Gln Leu Val Glu Thr Arg Gln Ile Thr
915 920 925

Lys His Val Ala Gln Ile Leu Asp Ser Arg Met Asn Thr Lys Tyr Asp
930 935 940

Glu Asn Asp Lys Leu Ile Arg Glu Val Lys Val Ile Thr Leu Lys Ser
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Lys Leu Val Ser Asp Phe Arg Lys Asp Phe Gln Phe Tyr Lys Val Arg
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Glu Ile Asn Asn Tyr His His Ala His Asp Ala Tyr Leu Asn Ala Val

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Val Gly Thr Ala Leu Ile Lys Lys Tyr Pro Lys Leu Glu Ser Glu Phe
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Val Tyr Gly Asp Tyr Lys Val Tyr Asp Val Arg Lys Met Ile Ala
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Lys Ser Glu Gln Glu Ile Gly Lys Ala Thr Ala Lys Tyr Phe Phe
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Tyr Ser Asn Ile Met Asn Phe Phe Lys Thr Glu Ile Thr Leu Ala
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Thr Gly Glu Ile Val Trp Asp Lys Gly Arg Asp Phe Ala Thr Val
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Arg Lys Val Leu Ser Met Pro Gln Val Asn Ile Val Lys Lys Thr
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Glu Val Gln Thr Gly Gly Phe Ser Lys Glu Ser Ile Leu Pro Lys
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Arg Asn Ser Asp Lys Leu Ile Ala Arg Lys Lys Asp Trp Asp Pro
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Lys Lys Tyr Gly Gly Phe Asp Ser Pro Thr Val Ala Tyr Ser Val
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Leu Val Val Ala Lys Val Glu Lys Gly Lys Ser Lys Lys Leu Lys
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Ser Val Lys Glu Leu Leu Gly Ile Thr Ile Met Glu Arg Ser Ser
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Phe Glu Lys Asn Pro Ile Asp Phe Leu Glu Ala Lys Gly Tyr Lys
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Glu Val Lys Lys Asp Leu Ile Ile Lys Leu Pro Lys Tyr Ser Leu
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Phe Glu Leu Glu Asn Gly Arg Lys Arg Met Leu Ala Ser Ala Gly
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Glu Leu Gln Lys Gly Asn Glu Leu Ala Leu Pro Ser Lys Tyr Val
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Asn Phe Leu Tyr Leu Ala Ser His Tyr Glu Lys Leu Lys Gly Ser

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Pro Glu Asp Asn Glu Gln Lys Gln Leu Phe Val Glu Gln His Lys
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His Tyr Leu Asp Glu Ile Ile Glu Gln Ile Ser Glu Phe Ser Lys
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Arg Val Ile Leu Ala Asp Ala Asn Leu Asp Lys Val Leu Ser Ala
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Tyr Asn Lys His Arg Asp Lys Pro Ile Arg Glu Gln Ala Glu Asn
1295 1300 1305

Ile Ile His Leu Phe Thr Leu Thr Asn Leu Gly Ala Pro Ala Ala
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Phe Lys Tyr Phe Asp Thr Thr Ile Asp Arg Lys Arg Tyr Thr Ser
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Ala Glu Val Pro Lys Thr Gly Asp Ser Leu Ala Met Ala Arg Arg Leu
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Ala Arg Ser Val Arg Arg Leu Thr Arg Arg Arg Ala His Arg Leu Leu
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Arg Ala Arg Arg Leu Leu Lys Arg Glu Gly Val Leu Gln Ala Ala Asp
85 90 95

Phe Asp Glu Asn Gly Leu Ile Lys Ser Leu Pro Asn Thr Pro Trp Gln
100 105 110

Leu Arg Ala Ala Ala Leu Asp Arg Lys Leu Thr Pro Leu Glu Trp Ser
115 120 125

Ala Val Leu Leu His Leu Ile Lys His Arg Gly Tyr Leu Ser Gln Arg
130 135 140

Lys Asn Glu Gly Glu Thr Ala Asp Lys Glu Leu Gly Ala Leu Leu Lys
145 150 155 160

Gly Val Ala Asp Asn Ala His Ala Leu Gln Thr Gly Asp Phe Arg Thr
165 170 175

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Arg Asn Gln Arg Gly Asp Tyr Ser His Thr Phe Ser Arg Lys Asp Leu
        195                 200                 205

Gln Ala Glu Leu Ile Leu Leu Phe Glu Lys Gln Lys Glu Phe Gly Asn
    210                 215                 220

Pro His Val Ser Gly Gly Leu Lys Glu Gly Ile Glu Thr Leu Leu Met
225                 230                 235                 240

Thr Gln Arg Pro Ala Leu Ser Gly Asp Ala Val Gln Lys Met Leu Gly
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His Cys Thr Phe Glu Pro Ala Glu Pro Lys Ala Ala Lys Asn Thr Tyr
            260                 265                 270

Thr Ala Glu Arg Phe Ile Trp Leu Thr Lys Leu Asn Asn Leu Arg Ile
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Leu Glu Gln Gly Ser Glu Arg Pro Leu Thr Asp Thr Glu Arg Ala Thr
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Leu Met Asp Glu Pro Tyr Arg Lys Ser Lys Leu Thr Tyr Ala Gln Ala
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Arg Lys Leu Leu Gly Leu Glu Asp Thr Ala Phe Phe Lys Gly Leu Arg
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Tyr Gly Lys Asp Asn Ala Glu Ala Ser Thr Leu Met Glu Met Lys Ala
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Tyr His Ala Ile Ser Arg Ala Leu Glu Lys Glu Gly Leu Lys Asp Lys
        355                 360                 365

Lys Ser Pro Leu Asn Leu Ser Pro Glu Leu Gln Asp Glu Ile Gly Thr
    370                 375                 380

Ala Phe Ser Leu Phe Lys Thr Asp Glu Asp Ile Thr Gly Arg Leu Lys
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Asp Arg Ile Gln Pro Glu Ile Leu Glu Ala Leu Leu Lys His Ile Ser
                405                 410                 415

Phe Asp Lys Phe Val Gln Ile Ser Leu Lys Ala Leu Arg Arg Ile Val
            420                 425                 430

Pro Leu Met Glu Gln Gly Lys Arg Tyr Asp Glu Ala Cys Ala Glu Ile
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Pro Pro Ile Pro Ala Asp Glu Ile Arg Asn Pro Val Val Leu Arg Ala
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Leu Ser Gln Ala Arg Lys Val Ile Asn Gly Val Val Arg Arg Tyr Gly
                485                 490                 495

Ser Pro Ala Arg Ile His Ile Glu Thr Ala Arg Glu Val Gly Lys Ser
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Phe Lys Asp Arg Lys Glu Ile Glu Lys Arg Gln Glu Glu Asn Arg Lys
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Asp Arg Glu Lys Ala Ala Ala Lys Phe Arg Glu Tyr Phe Pro Asn Phe
    530                 535                 540

Val Gly Glu Pro Lys Ser Lys Asp Ile Leu Lys Leu Arg Leu Tyr Glu
545                 550                 555                 560

Gln Gln His Gly Lys Cys Leu Tyr Ser Gly Lys Glu Ile Asn Leu Gly
                565                 570                 575

Arg Leu Asn Glu Lys Gly Tyr Val Glu Ile Asp His Ala Leu Pro Phe
            580                 585                 590

Ser Arg Thr Trp Asp Asp Ser Phe Asn Asn Lys Val Leu Val Leu Gly
        595                 600                 605

Ser Glu Asn Gln Asn Lys Gly Asn Gln Thr Pro Tyr Glu Tyr Phe Asn
    610                 615                 620

Gly Lys Asp Asn Ser Arg Glu Trp Gln Glu Phe Lys Ala Arg Val Glu
625                 630                 635                 640

Thr Ser Arg Phe Pro Arg Ser Lys Lys Gln Arg Ile Leu Leu Gln Lys
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Phe Asp Glu Asp Gly Phe Lys Glu Arg Asn Leu Asn Asp Thr Arg Tyr
            660                 665                 670

Val Asn Arg Phe Leu Cys Gln Phe Val Ala Asp Arg Met Arg Leu Thr
        675                 680                 685

Gly Lys Gly Lys Lys Arg Val Phe Ala Ser Asn Gly Gln Ile Thr Asn
    690                 695                 700

Leu Leu Arg Gly Phe Trp Gly Leu Arg Lys Val Arg Ala Glu Asn Asp
705                 710                 715                 720
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Arg His His Ala Leu Asp Ala Val Val Val Ala Cys Ser Thr Val Ala
                725                 730                 735

Met Gln Gln Lys Ile Thr Arg Phe Val Arg Tyr Lys Glu Met Asn Ala
            740                 745                 750

Phe Asp Gly Lys Thr Ile Asp Lys Glu Thr Gly Glu Val Leu His Gln
        755                 760                 765

Lys Thr His Phe Pro Gln Pro Trp Glu Phe Phe Ala Gln Glu Val Met
    770                 775                 780

Ile Arg Val Phe Gly Lys Pro Asp Gly Lys Pro Glu Phe Glu Glu Ala
785                 790                 795                 800

Asp Thr Pro Glu Lys Leu Arg Thr Leu Leu Ala Glu Lys Leu Ser Ser
                805                 810                 815

Arg Pro Glu Ala Val His Glu Tyr Val Thr Pro Leu Phe Val Ser Arg
            820                 825                 830

Ala Pro Asn Arg Lys Met Ser Gly Gln Gly His Met Glu Thr Val Lys
        835                 840                 845

Ser Ala Lys Arg Leu Asp Glu Gly Val Ser Val Leu Arg Val Pro Leu
    850                 855                 860

Thr Gln Leu Lys Leu Lys Asp Leu Glu Lys Met Val Asn Arg Glu Arg
865                 870                 875                 880

Glu Pro Lys Leu Tyr Glu Ala Leu Lys Ala Arg Leu Glu Ala His Lys
                885                 890                 895

Asp Asp Pro Ala Lys Ala Phe Ala Glu Pro Phe Tyr Lys Tyr Asp Lys
            900                 905                 910

Ala Gly Asn Arg Thr Gln Gln Val Lys Ala Val Arg Val Glu Gln Val
        915                 920                 925

Gln Lys Thr Gly Val Trp Val Arg Asn His Asn Gly Ile Ala Asp Asn
    930                 935                 940

Ala Thr Met Val Arg Val Asp Val Phe Glu Lys Gly Asp Lys Tyr Tyr
945                 950                 955                 960

Leu Val Pro Ile Tyr Ser Trp Gln Val Ala Lys Gly Ile Leu Pro Asp
                965                 970                 975

Arg Ala Val Val Gln Gly Lys Asp Glu Glu Asp Trp Gln Leu Ile Asp
            980                 985                 990
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Asp Ser Phe Asn Phe Lys Phe Ser Leu His Pro Asn Asp Leu Val Glu
995 1000 1005

Val Ile Thr Lys Lys Ala Arg Met Phe Gly Tyr Phe Ala Ser Cys
1010 1015 1020

His Arg Gly Thr Gly Asn Ile Asn Ile Arg Ile His Asp Leu Asp
1025 1030 1035

His Lys Ile Gly Lys Asn Gly Ile Leu Glu Gly Ile Gly Val Lys
1040 1045 1050

Thr Ala Leu Ser Phe Gln Lys Tyr Gln Ile Asp Glu Leu Gly Lys
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Glu Ile Arg Pro Cys Arg Leu Lys Lys Arg Pro Pro Val Arg
1070 1075 1080

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<400> 26

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Val Arg Leu Phe Lys Glu Ala Asn Val Glu Asn Asn Glu Gly Arg Arg
35 40 45

Ser Lys Arg Gly Ala Arg Arg Leu Lys Arg Arg Arg Arg His Arg Ile
50 55 60

Gln Arg Val Lys Lys Leu Leu Phe Asp Tyr Asn Leu Leu Thr Asp His
65 70 75 80

Ser Glu Leu Ser Gly Ile Asn Pro Tyr Glu Ala Arg Val Lys Gly Leu
85 90 95

Ser Gln Lys Leu Ser Glu Glu Glu Phe Ser Ala Ala Leu Leu His Leu
100 105 110

Ala Lys Arg Arg Gly Val His Asn Val Asn Glu Val Glu Glu Asp Thr
115 120 125

Gly Asn Glu Leu Ser Thr Lys Glu Gln Ile Ser Arg Asn Ser Lys Ala
130 135 140

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Leu Glu Glu Lys Tyr Val Ala Glu Leu Gln Leu Glu Arg Leu Lys Lys
145                 150                 155                 160

Asp Gly Glu Val Arg Gly Ser Ile Asn Arg Phe Lys Thr Ser Asp Tyr
                165                 170                 175

Val Lys Glu Ala Lys Gln Leu Leu Lys Val Gln Lys Ala Tyr His Gln
            180                 185                 190

Leu Asp Gln Ser Phe Ile Asp Thr Tyr Ile Asp Leu Leu Glu Thr Arg
        195                 200                 205

Arg Thr Tyr Tyr Glu Gly Pro Gly Glu Gly Ser Pro Phe Gly Trp Lys
    210                 215                 220

Asp Ile Lys Glu Trp Tyr Glu Met Leu Met Gly His Cys Thr Tyr Phe
225                 230                 235                 240

Pro Glu Glu Leu Arg Ser Val Lys Tyr Ala Tyr Asn Ala Asp Leu Tyr
                245                 250                 255

Asn Ala Leu Asn Asp Leu Asn Asn Leu Val Ile Thr Arg Asp Glu Asn
            260                 265                 270

Glu Lys Leu Glu Tyr Tyr Glu Lys Phe Gln Ile Ile Glu Asn Val Phe
        275                 280                 285

Lys Gln Lys Lys Lys Pro Thr Leu Lys Gln Ile Ala Lys Glu Ile Leu
    290                 295                 300

Val Asn Glu Glu Asp Ile Lys Gly Tyr Arg Val Thr Ser Thr Gly Lys
305                 310                 315                 320

Pro Glu Phe Thr Asn Leu Lys Val Tyr His Asp Ile Lys Asp Ile Thr
                325                 330                 335

Ala Arg Lys Glu Ile Ile Glu Asn Ala Glu Leu Leu Asp Gln Ile Ala
            340                 345                 350

Lys Ile Leu Thr Ile Tyr Gln Ser Ser Glu Asp Ile Gln Glu Glu Leu
        355                 360                 365

Thr Asn Leu Asn Ser Glu Leu Thr Gln Glu Glu Ile Glu Gln Ile Ser
    370                 375                 380

Asn Leu Lys Gly Tyr Thr Gly Thr His Asn Leu Ser Leu Lys Ala Ile
385                 390                 395                 400

Asn Leu Ile Leu Asp Glu Leu Trp His Thr Asn Asp Asn Gln Ile Ala
                405                 410                 415
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Ile Phe Asn Arg Leu Lys Leu Val Pro Lys Lys Val Asp Leu Ser Gln
            420                 425                 430

Gln Lys Glu Ile Pro Thr Thr Leu Val Asp Asp Phe Ile Leu Ser Pro
        435                 440                 445

Val Val Lys Arg Ser Phe Ile Gln Ser Ile Lys Val Ile Asn Ala Ile
    450                 455                 460

Ile Lys Lys Tyr Gly Leu Pro Asn Asp Ile Ile Ile Glu Leu Ala Arg
465                 470                 475                 480

Glu Lys Asn Ser Lys Asp Ala Gln Lys Met Ile Asn Glu Met Gln Lys
                485                 490                 495

Arg Asn Arg Gln Thr Asn Glu Arg Ile Glu Glu Ile Ile Arg Thr Thr
            500                 505                 510

Gly Lys Glu Asn Ala Lys Tyr Leu Ile Glu Lys Ile Lys Leu His Asp
        515                 520                 525

Met Gln Glu Gly Lys Cys Leu Tyr Ser Leu Glu Ala Ile Pro Leu Glu
    530                 535                 540

Asp Leu Leu Asn Asn Pro Phe Asn Tyr Glu Val Asp His Ile Ile Pro
545                 550                 555                 560

Arg Ser Val Ser Phe Asp Asn Ser Phe Asn Asn Lys Val Leu Val Lys
                565                 570                 575

Gln Glu Glu Asn Ser Lys Lys Gly Asn Arg Thr Pro Phe Gln Tyr Leu
            580                 585                 590

Ser Ser Ser Asp Ser Lys Ile Ser Tyr Glu Thr Phe Lys Lys His Ile
        595                 600                 605

Leu Asn Leu Ala Lys Gly Lys Gly Arg Ile Ser Lys Thr Lys Lys Glu
    610                 615                 620

Tyr Leu Leu Glu Glu Arg Asp Ile Asn Arg Phe Ser Val Gln Lys Asp
625                 630                 635                 640

Phe Ile Asn Arg Asn Leu Val Asp Thr Arg Tyr Ala Thr Arg Gly Leu
                645                 650                 655

Met Asn Leu Leu Arg Ser Tyr Phe Arg Val Asn Asn Leu Asp Val Lys
            660                 665                 670

Val Lys Ser Ile Asn Gly Gly Phe Thr Ser Phe Leu Arg Arg Lys Trp
        675                 680                 685
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Lys Phe Lys Lys Glu Arg Asn Lys Gly Tyr Lys His His Ala Glu Asp
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Ala Leu Ile Ile Ala Asn Ala Asp Phe Ile Phe Lys Glu Trp Lys Lys
705                 710                 715                 720

Leu Asp Lys Ala Lys Lys Val Met Glu Asn Gln Met Phe Glu Glu Lys
                725                 730                 735

Gln Ala Glu Ser Met Pro Glu Ile Glu Thr Glu Gln Glu Tyr Lys Glu
            740                 745                 750

Ile Phe Ile Thr Pro His Gln Ile Lys His Ile Lys Asp Phe Lys Asp
        755                 760                 765

Tyr Lys Tyr Ser His Arg Val Asp Lys Lys Pro Asn Arg Glu Leu Ile
    770                 775                 780

Asn Asp Thr Leu Tyr Ser Thr Arg Lys Asp Asp Lys Gly Asn Thr Leu
785                 790                 795                 800

Ile Val Asn Asn Leu Asn Gly Leu Tyr Asp Lys Asp Asn Asp Lys Leu
                805                 810                 815

Lys Lys Leu Ile Asn Lys Ser Pro Glu Lys Leu Leu Met Tyr His His
            820                 825                 830

Asp Pro Gln Thr Tyr Gln Lys Leu Lys Leu Ile Met Glu Gln Tyr Gly
        835                 840                 845

Asp Glu Lys Asn Pro Leu Tyr Lys Tyr Tyr Glu Glu Thr Gly Asn Tyr
    850                 855                 860

Leu Thr Lys Tyr Ser Lys Lys Asp Asn Gly Pro Val Ile Lys Lys Ile
865                 870                 875                 880

Lys Tyr Tyr Gly Asn Lys Leu Asn Ala His Leu Asp Ile Thr Asp Asp
                885                 890                 895

Tyr Pro Asn Ser Arg Asn Lys Val Val Lys Leu Ser Leu Lys Pro Tyr
            900                 905                 910

Arg Phe Asp Val Tyr Leu Asp Asn Gly Val Tyr Lys Phe Val Thr Val
        915                 920                 925

Lys Asn Leu Asp Val Ile Lys Lys Glu Asn Tyr Tyr Glu Val Asn Ser
    930                 935                 940

Lys Cys Tyr Glu Glu Ala Lys Lys Leu Lys Lys Ile Ser Asn Gln Ala
945                 950                 955                 960
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Glu Phe Ile Ala Ser Phe Tyr Asn Asn Asp Leu Ile Lys Ile Asn Gly
965 970 975

Glu Leu Tyr Arg Val Ile Gly Val Asn Asn Asp Leu Leu Asn Arg Ile
980 985 990

Glu Val Asn Met Ile Asp Ile Thr Tyr Arg Glu Tyr Leu Glu Asn Met
995 1000 1005

Asn Asp Lys Arg Pro Pro Arg Ile Ile Lys Thr Ile Ala Ser Lys
1010 1015 1020

Thr Gln Ser Ile Lys Lys Tyr Ser Thr Asp Ile Leu Gly Asn Leu
1025 1030 1035

Tyr Glu Val Lys Ser Lys Lys His Pro Gln Ile Ile Lys Lys Gly
1040 1045 1050

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<220>
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ggcuaguccg uuaucaacuu gaaaaagugg caccgagucg gugc 104

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aaggcuaguc cguuaucaac uugaaaaagu ggcaccgagu cggugc 106

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aaguuaaaau aaggcuaguc cguuaucaac uugaaaaagu ggcaccgagu cggugc 116

<210> 30
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cguuaucaac uugaaaaagu ggcaccgagu cggugc 96

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cguuaucaac uugaaaaagu ggcaccgagu cggugc 96

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<400> 36
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<400> 37
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<400> 38
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gtggaaaaca atgagggacg gagaagcaag aggggagcca ggcgcctgaa acgacggaga 180

aggcacagaa tccagagggt gaagaaactg ctgttcgatt acaacctgct gaccgaccat 240

tctgagctga gtggaattaa tccttatgaa gccagggtga aaggcctgag tcagaagctg 300

tcagaggaag agttttccgc agctctgctg cacctggcta agcgccgagg agtgcataac 360

gtcaatgagg tggaagagga caccggcaac gagctgtcta caaaggaaca gatctcacgc 420

aatagcaaag ctctggaaga gaagtatgtc gcagagctgc agctggaacg gctgaagaaa 480

gatggcgagg tgagagggtc aattaatagg ttcaagacaa gcgactacgt caaagaagcc 540

aagcagctgc tgaaagtgca gaaggcttac caccagctgg atcagagctt catcgatact 600

tatatcgacc tgctggagac tcggagaacc tactatgagg gaccaggaga agggagcccc 660

ttcggatgga aagacatcaa ggaatggtac gagatgctga tgggacattg cacctatttt 720

ccagaagagc tgagaagcgt caagtacgct tataacgcag atctgtacaa cgccctgaat 780

gacctgaaca acctggtcat caccagggat gaaaacgaga aactggaata ctatgagaag 840

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aaggagatcc tggtcaacga agaggacatc aagggctacc gggtgacaag cactggaaaa 960

ccagagttca ccaatctgaa agtgtatcac gatattaagg acatcacagc acggaaagaa 1020

atcattgaga acgccgaact gctggatcag attgctaaga tcctgactat ctaccagagc 1080

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gagaagaaca gcaaggacgc acagaagatg atcaatgaga tgcagaaacg aaaccggcag 1500

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tacgaaacct ttaaaaagca cattctgaat ctggccaaag gaaagggccg catcagcaag 1860

accaaaaagg agtacctgct ggaagagcgg gacatcaaca gattctccgt ccagaaggat 1920

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aagcatatca aggatttcaa ggactacaag tactctcacc gggtggataa aaagcccaac 2340

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taccgagagt atctggaaaa catgaatgat aagcgccccc ctcgaattat caaaacaatt 3060

gcctctaaga ctcagagtat caaaaagtac tcaaccgaca ttctgggaaa cctgtatgag 3120

gtgaagagca aaaagcaccc tcagattatc aaaaagggc 3159

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<400> 40
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<210> 41
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<210> 43

<211> 85
<212> RNA
<213> Streptococcus pyogenes

<400> 43
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aguggcaccg agucggugcu uuuuu 85

<210> 44
<211> 62
<212> RNA
<213> Streptococcus pyogenes

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cg 62

<210> 45
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<212> RNA
<213> Streptococcus pyogenes

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cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu uu 102

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<223> n is a, c, g, or u

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ggcuaguccg uuauc 75

<210> 47
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<212> RNA
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aaguuaaaau aaggcuaguc cguuauc 87

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<212> RNA
<213> Streptococcus thermophilus

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

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<223> n is a, c, g, or u

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<210> 49
<211> 78
<212> RNA
<213> Streptococcus thermophilus

<400> 49
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caccgauucg guguuuuu 78

<210> 50
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<212> RNA
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<210> 51
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<212> RNA
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<210> 52
<211> 85
<212> RNA
<213> Streptococcus pyogenes

<400> 52
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guggcaccga gucggugcuu uuuuu 85

<210> 53
<211> 78
<212> RNA
<213> Streptococcus thermophilus

<400> 53
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caccgauucg guguuuuu 78

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<220>
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<400> 54

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<210> 55
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<400> 55

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<210> 56
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1 5 10

<210> 57
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 57

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1 5 10

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<400> 177

Asp Leu Gly Gly Thr Tyr Thr Gly Thr Phe Ile Thr
1 5 10

<210> 178
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 178

Tyr Asp Ile Asp His Ile Tyr Pro Arg Ser Leu Thr Lys Asp Asp Ser
1 5 10 15

Phe Asp Asn Leu Val Leu Cys Glu Arg Thr Ala Asn
20 25

<210> 179
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 179

Asp Ile Asp His Ile Tyr Pro Arg Ser Lys Val Ile Lys Asp Asp Ser
1 5 10 15

Phe Asp Asn Leu Val Leu Val Leu Lys Asn Glu Asn
20 25

<210> 180
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 180

Asp Arg Asp His Ile Tyr Pro Gln Ser Lys Ile Lys Asp Asp Ser Ile
1 5 10 15

Asp Asn Leu Val Leu Val Asn Lys Thr Tyr Asn
20 25

<210> 181
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 181

Asp Ile Asp His Ile Tyr Pro Arg Ser Lys Ile Lys Asp Asp Ser Ile
1 5 10 15

Thr Asn Arg Val Leu Val Glu Lys Asp Ile Asn
20 25

<210> 182
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 182

Asp Ile Asp His Ile Tyr Pro Gln Ser Lys Ile Lys Asp Asp Ser Ile
1 5 10 15

Ser Asn Arg Val Leu Val Cys Ser Ser Cys Asn
20 25

<210> 183
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 183

Asp Ile Asp His Ile Tyr Pro Gln Ser Lys Thr Met Asp Asp Ser Leu
1 5 10 15

Asn Asn Arg Val Leu Val Lys Lys Asn Tyr Asn
20 25

<210> 184
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 184

Asp Gln Asp His Ile Tyr Pro Lys Ser Lys Ile Tyr Asp Asp Ser Leu
1 5 10 15

Glu Asn Arg Val Leu Val Lys Lys Asn Leu Asn
20 25

<210> 185
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 185

Gln Ile Asp His Ile Val Pro Gln Ser Leu Val Lys Asp Asp Ser Phe
1 5 10 15

Asp Asn Arg Val Leu Val Val Pro Ser Glu Asn
20 25

<210> 186
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 186

Asp Ile Asp His Ile Ile Pro Gln Ala Phe Ile Lys Asp Asn Ser Ile
1 5 10 15

Asp Asn Arg Val Leu Thr Ser Ser Lys Glu Asn
20 25

<210> 187
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 187

Asp Ile Asp His Ile Ile Pro Gln Ala Phe Leu Lys Asp Asn Ser Ile
1 5 10 15

Asp Asn Lys Val Leu Val Ser Ser Ala Ser Asn
20 25

<210> 188

<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 188

Asp Ile Asp His Ile Ile Pro Gln Ala Tyr Thr Lys Asp Asn Ser Leu
1 5 10 15

Asp Asn Arg Val Leu Val Ser Asn Ile Thr Asn
20 25

<210> 189
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 189

Asp Ile Asp His Ile Val Pro Gln Ser Phe Ile Thr Asp Asn Ser Ile
1 5 10 15

Asp Asn Leu Val Leu Thr Ser Ser Ala Gly Asn
20 25

<210> 190
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 190

Asp Val Asp His Ile Val Pro Gln Ser Phe Leu Lys Asp Asp Ser Ile
1 5 10 15

Asp Asn Lys Val Leu Thr Arg Ser Asp Lys Asn
20 25

<210> 191
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 191

Asn Ile Asp His Ile Tyr Pro Gln Ser Met Val Lys Asp Asp Ser Leu
1 5 10 15

Asp Asn Lys Val Leu Val Gln Ser Glu Ile Asn

20 25

<210> 192
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 192

Asp Ile Asp His Ile Leu Pro Gln Ser Leu Ile Lys Asp Asp Ser Leu
1 5 10 15

Asp Asn Arg Val Leu Val Asn Ala Thr Ile Asn
20 25

<210> 193
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 193

Asp Ile Asp His Ile Leu Pro Gln Ser Phe Ile Lys Asp Asp Ser Leu
1 5 10 15

Glu Asn Arg Val Leu Val Lys Lys Ala Val Asn
20 25

<210> 194
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 194

Glu Val Asp His Ile Phe Pro Arg Ser Phe Ile Lys Asp Asp Ser Ile
1 5 10 15

Asp Asn Lys Val Leu Val Ile Lys Lys Met Asn
20 25

<210> 195
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 195

Glu Val Asp His Ile Ile Pro Arg Ser Tyr Ile Lys Asp Asp Ser Phe

1 5 10 15

Glu Asn Lys Val Leu Val Tyr Arg Glu Glu Asn
20 25

<210> 196
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 196

Asp Ile Asp His Ile Ile Pro Gln Ala Val Thr Gln Asn Asp Ser Ile
1 5 10 15

Asp Asn Arg Val Leu Val Ala Arg Ala Glu Asn
20 25

<210> 197
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 197

Glu Ile Asp His Ile Ile Pro Tyr Ser Ile Ser Phe Asp Asp Ser Ser
1 5 10 15

Ser Asn Lys Leu Leu Val Leu Ala Glu Ser Asn
20 25

<210> 198
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 198

Glu Ile Asp His Ile Ile Pro Tyr Ser Leu Cys Phe Asp Asp Ser Ser
1 5 10 15

Ala Asn Lys Val Leu Val His Lys Gln Ser Asn
20 25

<210> 199
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 199

Asp Ile Asp His Ile Ile Pro Tyr Ser Arg Ser Met Asp Asp Ser Tyr
1 5 10 15

Ser Asn Lys Val Leu Val Leu Ser Gly Glu Asn
20 25

<210> 200
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 200

Asp Ile Asp His Ile Ile Pro Tyr Ser Lys Ser Met Asp Asp Ser Phe
1 5 10 15

Asn Asn Lys Val Leu Cys Leu Ala Glu Glu Asn
20 25

<210> 201
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 201

Glu Ile Asp His Ile Tyr Pro Tyr Ser Arg Ser Phe Asp Asp Ser Tyr
1 5 10 15

Met Asn Lys Val Leu Val Phe Thr Lys Gln Asn
20 25

<210> 202
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 202

Gln Ile Asp His Ile Tyr Pro Tyr Ser Arg Ser Met Asp Asp Ser Tyr
1 5 10 15

Met Asn Lys Val Leu Val Leu Thr Asp Glu Asn
20 25

<210> 203
<211> 27
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 203

Glu Ile Asp His Ile Ile Pro Phe Ser Arg Ser Phe Asp Asp Ser Leu
1 5 10 15

Ser Asn Lys Ile Leu Val Leu Gly Ser Glu Asn
20 25

<210> 204
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 204

Glu Ile Asp His Ala Leu Pro Phe Ser Arg Thr Trp Asp Asp Ser Phe
1 5 10 15

Asn Asn Lys Val Leu Val Leu Gly Ser Glu Asn
20 25

<210> 205
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 205

Glu Ile Asp His Ala Leu Pro Phe Ser Arg Thr Trp Asp Asp Ser Phe
1 5 10 15

Asn Asn Lys Val Leu Val Leu Ala Ser Glu Asn
20 25

<210> 206
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 206

Glu Ile Asp His Ile Ile Pro Ile Ser Ile Ser Leu Asp Asp Ser Ile
1 5 10 15

Asn Asn Lys Val Leu Val Leu Ser Lys Ala Asn
20 25

<210> 207
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 207

Glu Val Asp His Ile Ile Pro Ile Ser Ile Ser Leu Asp Asp Ser Ile
1 5 10 15

Thr Asn Lys Val Leu Val Thr His Arg Glu Asn
20 25

<210> 208
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 208

Gln Val Asp His Ala Leu Pro Tyr Ser Arg Ser Tyr Asp Asp Ser Lys
1 5 10 15

Asn Asn Lys Val Leu Val Leu Thr His Glu Asn
20 25

<210> 209
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 209

Glu Val Asp His Ile Leu Pro Leu Ser Ile Thr Phe Asp Asp Ser Leu
1 5 10 15

Ala Asn Lys Val Leu Val Tyr Ala Thr Ala Asn
20 25

<210> 210
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 210

Glu Ile Asp His Ile Ile Pro Arg Ser Ile Ser Phe Asp Asp Ala Arg
1 5 10 15

Ser Asn Lys Val Leu Val Tyr Arg Ser Glu Asn
20 25

<210> 211
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 211

Glu Val Asp His Ile Ile Pro Arg Ser Val Ser Phe Asp Asn Ser Tyr
1 5 10 15

His Asn Lys Val Leu Val Lys Gln Ser Glu Asn
20 25

<210> 212
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 212

Asp Ile Asp His Ile Leu Pro Tyr Ser Ile Thr Phe Asp Asp Ser Phe
1 5 10 15

Arg Asn Lys Val Leu Val Thr Ser Gln Glu Asn
20 25

<210> 213
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 213

Glu Ile Asp His Ile Leu Pro Arg Ser Arg Ser Ala Asp Asp Ser Phe
1 5 10 15

Ala Asn Lys Val Leu Cys Leu Ala Arg Ala Asn
20 25

<210> 214
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 214

Glu Ile Glu His Leu Leu Pro Phe Ser Leu Thr Leu Asp Asp Ser Met
1 5 10 15

Ala Asn Lys Thr Val Cys Phe Arg Gln Ala Asn
20 25

<210> 215
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 215

Asp Ile Asp His Ile Leu Pro Phe Ser Val Ser Leu Asp Asp Ser Ala
1 5 10 15

Ala Asn Lys Val Val Cys Leu Arg Glu Ala Asn
20 25

<210> 216
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 216

Asp Ile Asp His Leu Ile Pro Phe Ser Ile Ser Trp Asp Asp Ser Ala
1 5 10 15

Ala Asn Lys Val Val Cys Met Arg Tyr Ala Asn
20 25

<210> 217
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 217

Asp Ile Asp His Ile Leu Pro Val Ala Met Thr Leu Asp Asp Ser Pro
1 5 10 15

Ala Asn Lys Ile Ile Cys Met Arg Tyr Ala Asn
20 25

<210> 218
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 218

Asp Val Asp His Ile Leu Pro Tyr Ser Arg Thr Leu Asp Asp Ser Phe
1 5 10 15

Pro Asn Arg Thr Leu Cys Leu Arg Glu Ala Asn
20 25

<210> 219
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 219

Glu Ile Glu His Ile Leu Pro Phe Ser Arg Thr Leu Asp Asp Ser Leu
1 5 10 15

Asn Asn Arg Thr Val Ala Met Arg Arg Ala Asn
20 25

<210> 220
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 220

Glu Val Asp His Ile Ile Pro Tyr Ser Ile Ser Trp Asp Asp Ser Tyr
1 5 10 15

Thr Asn Lys Val Leu Thr Ser Ala Lys Cys Asn
20 25

<210> 221
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 221

Gln Val Asp His Ile Leu Pro Trp Ser Arg Phe Gly Asp Asp Ser Tyr
1 5 10 15

Leu Asn Lys Thr Leu Cys Thr Ala Arg Ser Asn
20 25

<210> 222

<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 222

Gln Val Asp His Ile Leu Pro Phe Ser Lys Thr Leu Asp Asp Ser Phe
1 5 10 15

Ala Asn Lys Val Leu Ala Gln His Asp Ala Asn
20 25

<210> 223
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 223

Gln Ile Asp His Ala Phe Pro Leu Ser Arg Ser Leu Asp Asp Ser Gln
1 5 10 15

Ser Asn Lys Val Leu Cys Leu Thr Ser Ser Asn
20 25

<210> 224
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 224

Asp Ile Asp His Ile Val Pro Arg Ser Ile Ser Phe Asp Asp Ser Phe
1 5 10 15

Ser Asn Leu Val Ile Val Asn Lys Leu Asp Asn
20 25

<210> 225
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 225

Glu Ile Glu His Ile Ile Pro Tyr Ser Met Ser Tyr Asp Asn Ser Gln
1 5 10 15

Ala Asn Lys Ile Leu Thr Glu Lys Ala Glu Asn

20 25

<210> 226
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 226

Glu Ile Asp His Val Ile Pro Tyr Ser Lys Ser Ala Asp Asp Ser Trp
1 5 10 15

Phe Asn Lys Leu Leu Val Lys Lys Ser Thr Asn
20 25

<210> 227
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 227

Glu Met Asp His Ile Leu Pro Tyr Ser Arg Ser Leu Asp Asn Gly Trp
1 5 10 15

His Asn Arg Val Leu Val His Gly Lys Asp Asn
20 25

<210> 228
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 228

Glu Val Asp His Ile Val Pro Tyr Ser Leu Ile Leu Asp Asn Thr Ile
1 5 10 15

Asn Asn Lys Ala Leu Val Tyr Ala Glu Glu Asn
20 25

<210> 229
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 229

Glu Ile Glu His Val Ile Pro Gln Ser Leu Tyr Phe Asp Asp Ser Phe

1 5 10 15

Ser Asn Lys Val Ile Cys Glu Ala Glu Val Asn
20 25

<210> 230
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 230

Asp Ile Glu His Ile Ile Pro Gln Ala Arg Leu Phe Asp Asp Ser Phe
1 5 10 15

Ser Asn Lys Thr Leu Glu Ala Arg Ser Val Asn
20 25

<210> 231
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 231

Glu Ile Glu His Ile Val Pro Lys Ala Arg Val Phe Asp Asp Ser Phe
1 5 10 15

Ser Asn Lys Thr Leu Thr Phe His Arg Ile Asn
20 25

<210> 232
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 232

Asp Lys Asp His Ile Ile Pro Gln Ser Met Lys Lys Asp Asp Ser Ile
1 5 10 15

Ile Asn Asn Leu Val Leu Val Asn Lys Asn Ala Asn
20 25

<210> 233
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 233

Glu Val Glu His Ile Trp Pro Arg Ser Arg Ser Phe Asp Asn Ser Pro
1 5 10 15

Arg Asn Lys Thr Leu Cys Arg Lys Asp Val Asn
20 25

<210> 234
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 234

Ile Val Asn His Ile Ile Pro Tyr Asn Arg Ser Phe Asp Asp Thr Tyr
1 5 10 15

His Asn Arg Val Leu Thr Leu Thr Glu Thr Lys
20 25

<210> 235
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 235

Asp Met Glu His Thr Ile Pro Lys Ser Ile Ser Phe Asp Asn Ser Asp
1 5 10 15

Gln Asn Leu Thr Leu Cys Glu Ser Tyr Tyr Asn
20 25

<210> 236
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 236

Asp Ile Glu His Thr Ile Pro Arg Ser Ala Gly Gly Asp Ser Thr Lys
1 5 10 15

Met Asn Leu Thr Leu Cys Ser Ser Arg Phe Asn
20 25

<210> 237
<211> 27
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 237

Asp Ile Glu His Thr Ile Pro Arg Ser Ile Ser Gln Asp Asn Ser Gln
1 5 10 15

Met Asn Lys Thr Leu Cys Ser Leu Lys Phe Asn
20 25

<210> 238
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 238

Asp Ile Asp His Val Ile Pro Leu Ala Arg Gly Gly Arg Asp Ser Leu
1 5 10 15

Asp Asn Met Val Leu Cys Gln Ser Asp Ala Asn
20 25

<210> 239
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 239

Asp Ile Glu His Leu Phe Pro Ile Ala Glu Ser Glu Asp Asn Gly Arg
1 5 10 15

Asn Asn Leu Val Ile Ser His Ser Ala Cys Asn
20 25

<210> 240
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 240

Asp Val Asp His Ile Phe Pro Arg Asp Asp Thr Ala Asp Asn Ser Tyr
1 5 10 15

Gly Asn Lys Val Val Ala His Arg Gln Cys Asn
20 25

<210> 241
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 241

Asp Ile Glu His Ile Val Pro Gln Ser Leu Gly Gly Leu Ser Thr Asp
1 5 10 15

Tyr Asn Thr Ile Val Thr Leu Lys Ser Val Asn
20 25

<210> 242
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 242

Glu Leu Asp His Ile Val Pro Arg Thr Asp Gly Gly Ser Asn Arg His
1 5 10 15

Glu Asn Leu Ala Ile Thr Cys Gly Ala Cys Asn
20 25

<210> 243
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 243

Glu Met Asp His Ile Val Pro Arg Lys Gly Val Gly Ser Thr Asn Thr
1 5 10 15

Arg Thr Asn Phe Ala Ala Val Cys Ala Glu Cys Asn
20 25

<210> 244
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 244

Glu Met Asp His Ile Val Pro Arg Lys Gly Val Gly Ser Thr Asn Thr
1 5 10 15

Arg Val Asn Leu Ala Ala Ala Cys Ala Ala Cys Asn
            20   25

<210> 245
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 245

Glu Met Asp His Ile Val Pro Arg Ala Gly Gln Gly Ser Thr Asn Thr
1   5   10   15

Arg Glu Asn Leu Val Ala Val Cys His Arg Cys Asn
            20   25

<210> 246
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 246

Glu Ile Asp His Ile Leu Pro Arg Ser Leu Ile Lys Asp Ala Arg Gly
1   5   10   15

Ile Val Phe Asn Ala Glu Pro Asn Leu Ile Tyr Ala Ser Ser Arg Gly
            20   25   30

Asn

<210> 247
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 247

Glu Ile Asp His Ile Ile Pro Arg Ser Leu Thr Gly Arg Thr Lys Lys
1   5   10   15

Thr Val Phe Asn Ser Glu Ala Asn Leu Ile Tyr Cys Ser Ser Lys Gly
            20   25   30

Asn

<210> 248

<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 248

Glu Ile Asp His Ile Ile Pro Arg Ser Leu Thr Leu Lys Lys Ser Glu
1 5 10 15

Ser Ile Tyr Asn Ser Glu Val Asn Leu Ile Phe Val Ser Ala Gln Gly
20 25 30

Asn

<210> 249
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 249

Glu Ile Asp His Ile Tyr Pro Arg Ser Leu Ser Lys Lys His Phe Gly
1 5 10 15

Val Ile Phe Asn Ser Glu Val Asn Leu Ile Tyr Cys Ser Ser Gln Gly
20 25 30

Asn

<210> 250
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 250

Glu Ile Asp His Ile Leu Pro Arg Ser His Thr Leu Lys Ile Tyr Gly
1 5 10 15

Thr Val Phe Asn Pro Glu Gly Asn Leu Ile Tyr Val His Gln Lys Cys
20 25 30

Asn

<210> 251
<211> 30
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 251

Glu Leu Asp His Ile Ile Pro Arg Ser His Lys Lys Tyr Gly Thr Leu
1 5 10 15

Asn Asp Glu Ala Asn Leu Ile Cys Val Thr Arg Gly Asp Asn
20 25 30

<210> 252
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 252

Glu Leu Glu His Ile Val Pro His Ser Phe Arg Gln Ser Asn Ala Leu
1 5 10 15

Ser Ser Leu Val Leu Thr Trp Pro Gly Val Asn
20 25

<210> 253
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 253

Tyr Asp Ile Asp His Ile Tyr Pro Arg Ser Leu Thr Lys Asp Asp Ser
1 5 10 15

Phe Asp Asn Leu Val Leu Cys Glu Arg Thr Ala Asn
20 25

<210> 254
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 254

Asp Ile Asp His Ile Tyr Pro Arg Ser Lys Val Ile Lys Asp Asp Ser
1 5 10 15

Phe Asp Asn Leu Val Leu Val Leu Lys Asn Glu Asn
20 25

<210> 255
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 255

Asp Arg Asp His Ile Tyr Pro Gln Ser Lys Ile Lys Asp Asp Ser Ile
1 5 10 15

Asp Asn Leu Val Leu Val Asn Lys Thr Tyr Asn
20 25

<210> 256
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 256

Asp Ile Asp His Ile Tyr Pro Arg Ser Lys Ile Lys Asp Asp Ser Ile
1 5 10 15

Thr Asn Arg Val Leu Val Glu Lys Asp Ile Asn
20 25

<210> 257
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 257

Asp Ile Asp His Ile Tyr Pro Gln Ser Lys Ile Lys Asp Asp Ser Ile
1 5 10 15

Ser Asn Arg Val Leu Val Cys Ser Ser Cys Asn
20 25

<210> 258
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 258

Asp Ile Asp His Ile Tyr Pro Gln Ser Lys Thr Met Asp Asp Ser Leu
1 5 10 15

Asn Asn Arg Val Leu Val Lys Lys Asn Tyr Asn
20 25

<210> 259
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 259

Asp Gln Asp His Ile Tyr Pro Lys Ser Lys Ile Tyr Asp Asp Ser Leu
1 5 10 15

Glu Asn Arg Val Leu Val Lys Lys Asn Leu Asn
20 25

<210> 260
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 260

Gln Ile Asp His Ile Val Pro Gln Ser Leu Val Lys Asp Asp Ser Phe
1 5 10 15

Asp Asn Arg Val Leu Val Val Pro Ser Glu Asn
20 25

<210> 261
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 261

Asp Ile Asp His Ile Ile Pro Gln Ala Phe Ile Lys Asp Asn Ser Ile
1 5 10 15

Asp Asn Arg Val Leu Thr Ser Ser Lys Glu Asn
20 25

<210> 262
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 262

Asp Ile Asp His Ile Ile Pro Gln Ala Phe Leu Lys Asp Asn Ser Ile
1 5 10 15

Asp Asn Lys Val Leu Val Ser Ser Ala Ser Asn
20 25

<210> 263
<211> 27
<212> PRT
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<400> 263

Asp Ile Asp His Ile Ile Pro Gln Ala Tyr Thr Lys Asp Asn Ser Leu
1 5 10 15

Asp Asn Arg Val Leu Val Ser Asn Ile Thr Asn
20 25

<210> 264
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<400> 264

Asp Ile Asp His Ile Val Pro Gln Ser Phe Ile Thr Asp Asn Ser Ile
1 5 10 15

Asp Asn Leu Val Leu Thr Ser Ser Ala Gly Asn
20 25

<210> 265
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 265

Asp Val Asp His Ile Val Pro Gln Ser Phe Leu Lys Asp Asp Ser Ile
1 5 10 15

Asp Asn Lys Val Leu Thr Arg Ser Asp Lys Asn
20 25

<210> 266
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 266

Asn Ile Asp His Ile Tyr Pro Gln Ser Met Val Lys Asp Asp Ser Leu
1 5 10 15

Asp Asn Lys Val Leu Val Gln Ser Glu Ile Asn
20 25

<210> 267
<211> 27
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<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 267

Asp Ile Asp His Ile Leu Pro Gln Ser Leu Ile Lys Asp Asp Ser Leu
1 5 10 15

Asp Asn Arg Val Leu Val Asn Ala Thr Ile Asn
20 25

<210> 268
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 268

Asp Ile Asp His Ile Leu Pro Gln Ser Phe Ile Lys Asp Asp Ser Leu
1 5 10 15

Glu Asn Arg Val Leu Val Lys Lys Ala Val Asn
20 25

<210> 269
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<400> 269

Glu Val Asp His Ile Phe Pro Arg Ser Phe Ile Lys Asp Asp Ser Ile
1 5 10 15

Asp Asn Lys Val Leu Val Ile Lys Lys Met Asn
20 25

<210> 270

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<212> PRT
<213> Artificial Sequence

<220>
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<400> 270

Glu Val Asp His Ile Ile Pro Arg Ser Tyr Ile Lys Asp Asp Ser Phe
1 5 10 15

Glu Asn Lys Val Leu Val Tyr Arg Glu Glu Asn
20 25

<210> 271
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<400> 271

Asp Ile Asp His Ile Ile Pro Gln Ala Val Thr Gln Asn Asp Ser Ile
1 5 10 15

Asp Asn Arg Val Leu Val Ala Arg Ala Glu Asn
20 25

<210> 272
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<212> PRT
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<220>
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<400> 272

Asp Ile Asp His Ile Val Pro Arg Ser Ile Ser Phe Asp Asp Ser Phe
1 5 10 15

Ser Asn Leu Val Ile Val Asn Lys Leu Asp Asn
20 25

<210> 273
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 273

Glu Ile Asp His Ile Ile Pro Tyr Ser Ile Ser Phe Asp Asp Ser Ser
1 5 10 15

Ser Asn Lys Leu Leu Val Leu Ala Glu Ser Asn

20 25

<210> 274
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 274

Glu Ile Asp His Ile Ile Pro Tyr Ser Leu Cys Phe Asp Asp Ser Ser
1 5 10 15

Ala Asn Lys Val Leu Val His Lys Gln Ser Asn
20 25

<210> 275
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<212> PRT
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<220>
<223> Synthetic peptide

<400> 275

Glu Ile Asp His Ile Ile Pro Ile Ser Ile Ser Leu Asp Asp Ser Ile
1 5 10 15

Asn Asn Lys Val Leu Val Leu Ser Lys Ala Asn
20 25

<210> 276
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 276

Glu Val Asp His Ile Ile Pro Ile Ser Ile Ser Leu Asp Asp Ser Ile
1 5 10 15

Thr Asn Lys Val Leu Val Thr His Arg Glu Asn
20 25

<210> 277
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 277

Glu Val Asp His Ile Leu Pro Leu Ser Ile Thr Phe Asp Asp Ser Leu

1 5 10 15

Ala Asn Lys Val Leu Val Tyr Ala Thr Ala Asn
20 25

<210> 278
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 278

Glu Ile Asp His Ile Ile Pro Arg Ser Ile Ser Phe Asp Asp Ala Arg
1 5 10 15

Ser Asn Lys Val Leu Val Tyr Arg Ser Glu Asn
20 25

<210> 279
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 279

Glu Val Asp His Ile Ile Pro Arg Ser Val Ser Phe Asp Asn Ser Tyr
1 5 10 15

His Asn Lys Val Leu Val Lys Gln Ser Glu Asn
20 25

<210> 280
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 280

Glu Val Asp His Ile Ile Pro Tyr Ser Ile Ser Trp Asp Asp Ser Tyr
1 5 10 15

Thr Asn Lys Val Leu Thr Ser Ala Lys Cys Asn
20 25

<210> 281
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 281

Asp Ile Asp His Ile Ile Pro Tyr Ser Arg Ser Met Asp Asp Ser Tyr
1 5 10 15

Ser Asn Lys Val Leu Val Leu Ser Gly Glu Asn
20 25

<210> 282
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<213> Artificial Sequence

<220>
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<400> 282

Glu Ile Glu His Ile Ile Pro Tyr Ser Met Ser Tyr Asp Asn Ser Gln
1 5 10 15

Ala Asn Lys Ile Leu Thr Glu Lys Ala Glu Asn
20 25

<210> 283
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 283

Glu Val Asp His Ile Val Pro Tyr Ser Leu Ile Leu Asp Asn Thr Ile
1 5 10 15

Asn Asn Lys Ala Leu Val Tyr Ala Glu Glu Asn
20 25

<210> 284
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 284

Glu Ile Asp His Val Ile Pro Tyr Ser Lys Ser Ala Asp Asp Ser Trp
1 5 10 15

Phe Asn Lys Leu Leu Val Lys Lys Ser Thr Asn
20 25

<210> 285
<211> 27
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 285

Glu Met Asp His Ile Leu Pro Tyr Ser Arg Ser Leu Asp Asn Gly Trp
1 5 10 15

His Asn Arg Val Leu Val His Gly Lys Asp Asn
20 25

<210> 286
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 286

Glu Ile Glu His Val Ile Pro Gln Ser Leu Tyr Phe Asp Asp Ser Phe
1 5 10 15

Ser Asn Lys Val Ile Cys Glu Ala Glu Val Asn
20 25

<210> 287
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 287

Asp Ile Glu His Ile Ile Pro Gln Ala Arg Leu Phe Asp Asp Ser Phe
1 5 10 15

Ser Asn Lys Thr Leu Glu Ala Arg Ser Val Asn
20 25

<210> 288
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 288

Glu Ile Glu His Ile Val Pro Lys Ala Arg Val Phe Asp Asp Ser Phe
1 5 10 15

Ser Asn Lys Thr Leu Thr Phe His Arg Ile Asn
20 25

<210> 289
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 289

Asp Lys Asp His Ile Ile Pro Gln Ser Met Lys Lys Asp Asp Ser Ile
1 5 10 15

Ile Asn Asn Leu Val Leu Val Asn Lys Asn Ala Asn
20 25

<210> 290
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 290

Gln Val Asp His Ile Leu Pro Trp Ser Arg Phe Gly Asp Asp Ser Tyr
1 5 10 15

Leu Asn Lys Thr Leu Cys Thr Ala Arg Ser Asn
20 25

<210> 291
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 291

Asp Ile Asp His Val Ile Pro Leu Ala Arg Gly Gly Arg Asp Ser Leu
1 5 10 15

Asp Asn Met Val Leu Cys Gln Ser Asp Ala Asn
20 25

<210> 292
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 292

Asp Met Glu His Thr Ile Pro Lys Ser Ile Ser Phe Asp Asn Ser Asp
1 5 10 15

Gln Asn Leu Thr Leu Cys Glu Ser Tyr Tyr Asn
20 25

<210> 293
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 293

Asp Ile Glu His Thr Ile Pro Arg Ser Ala Gly Gly Asp Ser Thr Lys
1 5 10 15

Met Asn Leu Thr Leu Cys Ser Ser Arg Phe Asn
20 25

<210> 294
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 294

Asp Ile Glu His Thr Ile Pro Arg Ser Ile Ser Gln Asp Asn Ser Gln
1 5 10 15

Met Asn Lys Thr Leu Cys Ser Leu Lys Phe Asn
20 25

<210> 295
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 295

Asp Ile Glu His Leu Phe Pro Ile Ala Glu Ser Glu Asp Asn Gly Arg
1 5 10 15

Asn Asn Leu Val Ile Ser His Ser Ala Cys Asn
20 25

<210> 296
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 296

Asp Val Asp His Ile Phe Pro Arg Asp Asp Thr Ala Asp Asn Ser Tyr
1 5 10 15

Gly Asn Lys Val Val Ala His Arg Gln Cys Asn
20 25

<210> 297
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 297

Asp Ile Glu His Ile Val Pro Gln Ser Leu Gly Gly Leu Ser Thr Asp
1 5 10 15

Tyr Asn Thr Ile Val Thr Leu Lys Ser Val Asn
20 25

<210> 298
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 298

Glu Leu Asp His Ile Val Pro Arg Thr Asp Gly Gly Ser Asn Arg His
1 5 10 15

Glu Asn Leu Ala Ile Thr Cys Gly Ala Cys Asn
20 25

<210> 299
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 299

Glu Met Asp His Ile Val Pro Arg Lys Gly Val Gly Ser Thr Asn Thr
1 5 10 15

Arg Thr Asn Phe Ala Ala Val Cys Ala Glu Cys Asn
20 25

<210> 300
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 300

Glu Met Asp His Ile Val Pro Arg Lys Gly Val Gly Ser Thr Asn Thr
1 5 10 15

Arg Val Asn Leu Ala Ala Ala Cys Ala Ala Cys Asn
20 25

<210> 301
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 301

Glu Met Asp His Ile Val Pro Arg Ala Gly Gln Gly Ser Thr Asn Thr
1 5 10 15

Arg Glu Asn Leu Val Ala Val Cys His Arg Cys Asn
20 25

<210> 302
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 302

Glu Leu Glu His Ile Val Pro His Ser Phe Arg Gln Ser Asn Ala Leu
1 5 10 15

Ser Ser Leu Val Leu Thr Trp Pro Gly Val Asn
20 25

<210> 303
<211> 3333
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 303
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gaaaacccca tccgcctgat tgatttgggc gtgcgcgtat ttgagcgtgc cgaagtaccg 180

aaaacaggcg actcccttgc catggcaagg cgtttggcgc gcagtgttcg ccgcctgacc 240

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caagccgcca attttgacga aaacggcttg attaaatcct taccgaatac accatggcaa 360

cttcgcgcag ccgcattaga ccgcaaactg acgcctttag agtggtcggc agtcttgttg 420

catttaatca aacatcgcgg ctatttatcg caacggaaaa acgagggcga aactgccgat 480

aaggagcttg gcgctttgct taaaggcgta gccggcaatg cccatgcctt acagacaggc 540

gatttccgca caccggccga attggcttta aataaatttg agaaagaaag cggccatatc 600

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attttgctgt ttgaaaaaca aaaagaattt ggcaatccgc atgtttcagg cggccttaaa 720

gaaggtattg aaaccctact gatgacgcaa cgccctgccc tgtccggcga tgccgttcaa 780

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aaaaccgccc tttcattcca aaaataccaa attgacgaac tgggcaaaga aatcagacca 3240

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gctccagcag cgaagaaaaa gaagctggat taa 3333

<210> 304
<211> 1053
<212> PRT
<213> Staphylococcus aureus

<400> 304

Met Lys Arg Asn Tyr Ile Leu Gly Leu Asp Ile Gly Ile Thr Ser Val
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Gly Tyr Gly Ile Ile Asp Tyr Glu Thr Arg Asp Val Ile Asp Ala Gly
20 25 30

Val Arg Leu Phe Lys Glu Ala Asn Val Glu Asn Asn Glu Gly Arg Arg
35 40 45

Ser Lys Arg Gly Ala Arg Arg Leu Lys Arg Arg Arg Arg His Arg Ile
50 55 60

Gln Arg Val Lys Lys Leu Leu Phe Asp Tyr Asn Leu Leu Thr Asp His
65 70 75 80

Ser Glu Leu Ser Gly Ile Asn Pro Tyr Glu Ala Arg Val Lys Gly Leu
85 90 95

Ser Gln Lys Leu Ser Glu Glu Glu Phe Ser Ala Ala Leu Leu His Leu
100 105 110

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Ala Lys Arg Arg Gly Val His Asn Val Asn Glu Val Glu Glu Asp Thr
        115                 120                 125

Gly Asn Glu Leu Ser Thr Lys Glu Gln Ile Ser Arg Asn Ser Lys Ala
    130                 135                 140

Leu Glu Glu Lys Tyr Val Ala Glu Leu Gln Leu Glu Arg Leu Lys Lys
145                 150                 155                 160

Asp Gly Glu Val Arg Gly Ser Ile Asn Arg Phe Lys Thr Ser Asp Tyr
                165                 170                 175

Val Lys Glu Ala Lys Gln Leu Leu Lys Val Gln Lys Ala Tyr His Gln
            180                 185                 190

Leu Asp Gln Ser Phe Ile Asp Thr Tyr Ile Asp Leu Leu Glu Thr Arg
        195                 200                 205

Arg Thr Tyr Tyr Glu Gly Pro Gly Glu Gly Ser Pro Phe Gly Trp Lys
    210                 215                 220

Asp Ile Lys Glu Trp Tyr Glu Met Leu Met Gly His Cys Thr Tyr Phe
225                 230                 235                 240

Pro Glu Glu Leu Arg Ser Val Lys Tyr Ala Tyr Asn Ala Asp Leu Tyr
                245                 250                 255

Asn Ala Leu Asn Asp Leu Asn Asn Leu Val Ile Thr Arg Asp Glu Asn
            260                 265                 270

Glu Lys Leu Glu Tyr Tyr Glu Lys Phe Gln Ile Ile Glu Asn Val Phe
        275                 280                 285

Lys Gln Lys Lys Lys Pro Thr Leu Lys Gln Ile Ala Lys Glu Ile Leu
    290                 295                 300

Val Asn Glu Glu Asp Ile Lys Gly Tyr Arg Val Thr Ser Thr Gly Lys
305                 310                 315                 320

Pro Glu Phe Thr Asn Leu Lys Val Tyr His Asp Ile Lys Asp Ile Thr
                325                 330                 335

Ala Arg Lys Glu Ile Ile Glu Asn Ala Glu Leu Leu Asp Gln Ile Ala
            340                 345                 350

Lys Ile Leu Thr Ile Tyr Gln Ser Ser Glu Asp Ile Gln Glu Glu Leu
        355                 360                 365

Thr Asn Leu Asn Ser Glu Leu Thr Gln Glu Glu Ile Glu Gln Ile Ser
    370                 375                 380
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Asn Leu Lys Gly Tyr Thr Gly Thr His Asn Leu Ser Leu Lys Ala Ile
385                 390                 395                 400

Asn Leu Ile Leu Asp Glu Leu Trp His Thr Asn Asp Asn Gln Ile Ala
                405                 410                 415

Ile Phe Asn Arg Leu Lys Leu Val Pro Lys Lys Val Asp Leu Ser Gln
            420                 425                 430

Gln Lys Glu Ile Pro Thr Thr Leu Val Asp Asp Phe Ile Leu Ser Pro
        435                 440                 445

Val Val Lys Arg Ser Phe Ile Gln Ser Ile Lys Val Ile Asn Ala Ile
    450                 455                 460

Ile Lys Lys Tyr Gly Leu Pro Asn Asp Ile Ile Ile Glu Leu Ala Arg
465                 470                 475                 480

Glu Lys Asn Ser Lys Asp Ala Gln Lys Met Ile Asn Glu Met Gln Lys
                485                 490                 495

Arg Asn Arg Gln Thr Asn Glu Arg Ile Glu Glu Ile Ile Arg Thr Thr
            500                 505                 510

Gly Lys Glu Asn Ala Lys Tyr Leu Ile Glu Lys Ile Lys Leu His Asp
        515                 520                 525

Met Gln Glu Gly Lys Cys Leu Tyr Ser Leu Glu Ala Ile Pro Leu Glu
    530                 535                 540

Asp Leu Leu Asn Asn Pro Phe Asn Tyr Glu Val Asp His Ile Ile Pro
545                 550                 555                 560

Arg Ser Val Ser Phe Asp Asn Ser Phe Asn Asn Lys Val Leu Val Lys
                565                 570                 575

Gln Glu Glu Asn Ser Lys Lys Gly Asn Arg Thr Pro Phe Gln Tyr Leu
            580                 585                 590

Ser Ser Ser Asp Ser Lys Ile Ser Tyr Glu Thr Phe Lys Lys His Ile
        595                 600                 605

Leu Asn Leu Ala Lys Gly Lys Gly Arg Ile Ser Lys Thr Lys Lys Glu
    610                 615                 620

Tyr Leu Leu Glu Glu Arg Asp Ile Asn Arg Phe Ser Val Gln Lys Asp
625                 630                 635                 640

Phe Ile Asn Arg Asn Leu Val Asp Thr Arg Tyr Ala Thr Arg Gly Leu
                645                 650                 655
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Met Asn Leu Leu Arg Ser Tyr Phe Arg Val Asn Asn Leu Asp Val Lys
            660                 665                 670

Val Lys Ser Ile Asn Gly Gly Phe Thr Ser Phe Leu Arg Arg Lys Trp
        675                 680                 685

Lys Phe Lys Lys Glu Arg Asn Lys Gly Tyr Lys His His Ala Glu Asp
    690                 695                 700

Ala Leu Ile Ile Ala Asn Ala Asp Phe Ile Phe Lys Glu Trp Lys Lys
705                 710                 715                 720

Leu Asp Lys Ala Lys Lys Val Met Glu Asn Gln Met Phe Glu Glu Lys
                725                 730                 735

Gln Ala Glu Ser Met Pro Glu Ile Glu Thr Glu Gln Glu Tyr Lys Glu
            740                 745                 750

Ile Phe Ile Thr Pro His Gln Ile Lys His Ile Lys Asp Phe Lys Asp
        755                 760                 765

Tyr Lys Tyr Ser His Arg Val Asp Lys Lys Pro Asn Arg Glu Leu Ile
    770                 775                 780

Asn Asp Thr Leu Tyr Ser Thr Arg Lys Asp Asp Lys Gly Asn Thr Leu
785                 790                 795                 800

Ile Val Asn Asn Leu Asn Gly Leu Tyr Asp Lys Asp Asn Asp Lys Leu
                805                 810                 815

Lys Lys Leu Ile Asn Lys Ser Pro Glu Lys Leu Leu Met Tyr His His
            820                 825                 830

Asp Pro Gln Thr Tyr Gln Lys Leu Lys Leu Ile Met Glu Gln Tyr Gly
        835                 840                 845

Asp Glu Lys Asn Pro Leu Tyr Lys Tyr Tyr Glu Glu Thr Gly Asn Tyr
    850                 855                 860

Leu Thr Lys Tyr Ser Lys Lys Asp Asn Gly Pro Val Ile Lys Lys Ile
865                 870                 875                 880

Lys Tyr Tyr Gly Asn Lys Leu Asn Ala His Leu Asp Ile Thr Asp Asp
                885                 890                 895

Tyr Pro Asn Ser Arg Asn Lys Val Val Lys Leu Ser Leu Lys Pro Tyr
            900                 905                 910

Arg Phe Asp Val Tyr Leu Asp Asn Gly Val Tyr Lys Phe Val Thr Val
        915                 920                 925
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Lys Asn Leu Asp Val Ile Lys Lys Glu Asn Tyr Tyr Glu Val Asn Ser
930 935 940

Lys Cys Tyr Glu Glu Ala Lys Lys Leu Lys Lys Ile Ser Asn Gln Ala
945 950 955 960

Glu Phe Ile Ala Ser Phe Tyr Asn Asn Asp Leu Ile Lys Ile Asn Gly
965 970 975

Glu Leu Tyr Arg Val Ile Gly Val Asn Asn Asp Leu Leu Asn Arg Ile
980 985 990

Glu Val Asn Met Ile Asp Ile Thr Tyr Arg Glu Tyr Leu Glu Asn Met
995 1000 1005

Asn Asp Lys Arg Pro Pro Arg Ile Ile Lys Thr Ile Ala Ser Lys
1010 1015 1020

Thr Gln Ser Ile Lys Lys Tyr Ser Thr Asp Ile Leu Gly Asn Leu
1025 1030 1035

Tyr Glu Val Lys Ser Lys Lys His Pro Gln Ile Ile Lys Lys Gly
1040 1045 1050

<210> 305
<211> 1368
<212> PRT
<213> Streptococcus pyogenes

<400> 305

Met Asp Lys Lys Tyr Ser Ile Gly Leu Asp Ile Gly Thr Asn Ser Val
1 5 10 15

Gly Trp Ala Val Ile Thr Asp Glu Tyr Lys Val Pro Ser Lys Lys Phe
20 25 30

Lys Val Leu Gly Asn Thr Asp Arg His Ser Ile Lys Lys Asn Leu Ile
35 40 45

Gly Ala Leu Leu Phe Asp Ser Gly Glu Thr Ala Glu Ala Thr Arg Leu
50 55 60

Lys Arg Thr Ala Arg Arg Arg Tyr Thr Arg Arg Lys Asn Arg Ile Cys
65 70 75 80

Tyr Leu Gln Glu Ile Phe Ser Asn Glu Met Ala Lys Val Asp Asp Ser
85 90 95

Phe Phe His Arg Leu Glu Glu Ser Phe Leu Val Glu Glu Asp Lys Lys
100 105 110

```
His Glu Arg His Pro Ile Phe Gly Asn Ile Val Asp Glu Val Ala Tyr
        115                 120                 125

His Glu Lys Tyr Pro Thr Ile Tyr His Leu Arg Lys Lys Leu Val Asp
    130                 135                 140

Ser Thr Asp Lys Ala Asp Leu Arg Leu Ile Tyr Leu Ala Leu Ala His
145                 150                 155                 160

Met Ile Lys Phe Arg Gly His Phe Leu Ile Glu Gly Asp Leu Asn Pro
                165                 170                 175

Asp Asn Ser Asp Val Asp Lys Leu Phe Ile Gln Leu Val Gln Thr Tyr
            180                 185                 190

Asn Gln Leu Phe Glu Glu Asn Pro Ile Asn Ala Ser Gly Val Asp Ala
        195                 200                 205

Lys Ala Ile Leu Ser Ala Arg Leu Ser Lys Ser Arg Arg Leu Glu Asn
    210                 215                 220

Leu Ile Ala Gln Leu Pro Gly Glu Lys Lys Asn Gly Leu Phe Gly Asn
225                 230                 235                 240

Leu Ile Ala Leu Ser Leu Gly Leu Thr Pro Asn Phe Lys Ser Asn Phe
                245                 250                 255

Asp Leu Ala Glu Asp Ala Lys Leu Gln Leu Ser Lys Asp Thr Tyr Asp
            260                 265                 270

Asp Asp Leu Asp Asn Leu Leu Ala Gln Ile Gly Asp Gln Tyr Ala Asp
        275                 280                 285

Leu Phe Leu Ala Ala Lys Asn Leu Ser Asp Ala Ile Leu Leu Ser Asp
    290                 295                 300

Ile Leu Arg Val Asn Thr Glu Ile Thr Lys Ala Pro Leu Ser Ala Ser
305                 310                 315                 320

Met Ile Lys Arg Tyr Asp Glu His His Gln Asp Leu Thr Leu Leu Lys
                325                 330                 335

Ala Leu Val Arg Gln Gln Leu Pro Glu Lys Tyr Lys Glu Ile Phe Phe
            340                 345                 350

Asp Gln Ser Lys Asn Gly Tyr Ala Gly Tyr Ile Asp Gly Gly Ala Ser
        355                 360                 365

Gln Glu Glu Phe Tyr Lys Phe Ile Lys Pro Ile Leu Glu Lys Met Asp
    370                 375                 380
```

```
Gly Thr Glu Glu Leu Leu Val Lys Leu Asn Arg Glu Asp Leu Leu Arg
385                 390                 395                 400

Lys Gln Arg Thr Phe Asp Asn Gly Ser Ile Pro His Gln Ile His Leu
                405                 410                 415

Gly Glu Leu His Ala Ile Leu Arg Arg Gln Glu Asp Phe Tyr Pro Phe
            420                 425                 430

Leu Lys Asp Asn Arg Glu Lys Ile Glu Lys Ile Leu Thr Phe Arg Ile
        435                 440                 445

Pro Tyr Tyr Val Gly Pro Leu Ala Arg Gly Asn Ser Arg Phe Ala Trp
    450                 455                 460

Met Thr Arg Lys Ser Glu Glu Thr Ile Thr Pro Trp Asn Phe Glu Glu
465                 470                 475                 480

Val Val Asp Lys Gly Ala Ser Ala Gln Ser Phe Ile Glu Arg Met Thr
                485                 490                 495

Asn Phe Asp Lys Asn Leu Pro Asn Glu Lys Val Leu Pro Lys His Ser
            500                 505                 510

Leu Leu Tyr Glu Tyr Phe Thr Val Tyr Asn Glu Leu Thr Lys Val Lys
        515                 520                 525

Tyr Val Thr Glu Gly Met Arg Lys Pro Ala Phe Leu Ser Gly Glu Gln
    530                 535                 540

Lys Lys Ala Ile Val Asp Leu Leu Phe Lys Thr Asn Arg Lys Val Thr
545                 550                 555                 560

Val Lys Gln Leu Lys Glu Asp Tyr Phe Lys Lys Ile Glu Cys Phe Asp
                565                 570                 575

Ser Val Glu Ile Ser Gly Val Glu Asp Arg Phe Asn Ala Ser Leu Gly
            580                 585                 590

Thr Tyr His Asp Leu Leu Lys Ile Ile Lys Asp Lys Asp Phe Leu Asp
        595                 600                 605

Asn Glu Glu Asn Glu Asp Ile Leu Glu Asp Ile Val Leu Thr Leu Thr
    610                 615                 620

Leu Phe Glu Asp Arg Glu Met Ile Glu Glu Arg Leu Lys Thr Tyr Ala
625                 630                 635                 640

His Leu Phe Asp Asp Lys Val Met Lys Gln Leu Lys Arg Arg Arg Tyr
                645                 650                 655
```

```
Thr Gly Trp Gly Arg Leu Ser Arg Lys Leu Ile Asn Gly Ile Arg Asp
            660                 665                 670

Lys Gln Ser Gly Lys Thr Ile Leu Asp Phe Leu Lys Ser Asp Gly Phe
        675                 680                 685

Ala Asn Arg Asn Phe Met Gln Leu Ile His Asp Asp Ser Leu Thr Phe
    690                 695                 700

Lys Glu Asp Ile Gln Lys Ala Gln Val Ser Gly Gln Gly Asp Ser Leu
705                 710                 715                 720

His Glu His Ile Ala Asn Leu Ala Gly Ser Pro Ala Ile Lys Lys Gly
                725                 730                 735

Ile Leu Gln Thr Val Lys Val Val Asp Glu Leu Val Lys Val Met Gly
            740                 745                 750

Arg His Lys Pro Glu Asn Ile Val Ile Glu Met Ala Arg Glu Asn Gln
        755                 760                 765

Thr Thr Gln Lys Gly Gln Lys Asn Ser Arg Glu Arg Met Lys Arg Ile
    770                 775                 780

Glu Glu Gly Ile Lys Glu Leu Gly Ser Gln Ile Leu Lys Glu His Pro
785                 790                 795                 800

Val Glu Asn Thr Gln Leu Gln Asn Glu Lys Leu Tyr Leu Tyr Tyr Leu
                805                 810                 815

Gln Asn Gly Arg Asp Met Tyr Val Asp Gln Glu Leu Asp Ile Asn Arg
            820                 825                 830

Leu Ser Asp Tyr Asp Val Asp His Ile Val Pro Gln Ser Phe Leu Lys
        835                 840                 845

Asp Asp Ser Ile Asp Asn Lys Val Leu Thr Arg Ser Asp Lys Asn Arg
    850                 855                 860

Gly Lys Ser Asp Asn Val Pro Ser Glu Glu Val Val Lys Lys Met Lys
865                 870                 875                 880

Asn Tyr Trp Arg Gln Leu Leu Asn Ala Lys Leu Ile Thr Gln Arg Lys
                885                 890                 895

Phe Asp Asn Leu Thr Lys Ala Glu Arg Gly Gly Leu Ser Glu Leu Asp
            900                 905                 910

Lys Ala Gly Phe Ile Lys Arg Gln Leu Val Glu Thr Arg Gln Ile Thr
        915                 920                 925
```

```
Lys His Val Ala Gln Ile Leu Asp Ser Arg Met Asn Thr Lys Tyr Asp
    930                 935                 940

Glu Asn Asp Lys Leu Ile Arg Glu Val Lys Val Ile Thr Leu Lys Ser
945                 950                 955                 960

Lys Leu Val Ser Asp Phe Arg Lys Asp Phe Gln Phe Tyr Lys Val Arg
                965                 970                 975

Glu Ile Asn Asn Tyr His His Ala His Asp Ala Tyr Leu Asn Ala Val
            980                 985                 990

Val Gly Thr Ala Leu Ile Lys Lys  Tyr Pro Lys Leu Glu  Ser Glu Phe
        995                 1000                1005

Val Tyr  Gly Asp Tyr Lys Val  Tyr Asp Val Arg Lys  Met Ile Ala
    1010                1015                1020

Lys Ser  Glu Gln Glu Ile Gly  Lys Ala Thr Ala Lys  Tyr Phe Phe
    1025                1030                1035

Tyr Ser  Asn Ile Met Asn Phe  Phe Lys Thr Glu Ile  Thr Leu Ala
    1040                1045                1050

Asn Gly  Glu Ile Arg Lys Arg  Pro Leu Ile Glu Thr  Asn Gly Glu
    1055                1060                1065

Thr Gly  Glu Ile Val Trp Asp  Lys Gly Arg Asp Phe  Ala Thr Val
    1070                1075                1080

Arg Lys  Val Leu Ser Met Pro  Gln Val Asn Ile Val  Lys Lys Thr
    1085                1090                1095

Glu Val  Gln Thr Gly Gly Phe  Ser Lys Glu Ser Ile  Leu Pro Lys
    1100                1105                1110

Arg Asn  Ser Asp Lys Leu Ile  Ala Arg Lys Lys Asp  Trp Asp Pro
    1115                1120                1125

Lys Lys  Tyr Gly Gly Phe Asp  Ser Pro Thr Val Ala  Tyr Ser Val
    1130                1135                1140

Leu Val  Val Ala Lys Val Glu  Lys Gly Lys Ser Lys  Lys Leu Lys
    1145                1150                1155

Ser Val  Lys Glu Leu Leu Gly  Ile Thr Ile Met Glu  Arg Ser Ser
    1160                1165                1170

Phe Glu  Lys Asn Pro Ile Asp  Phe Leu Glu Ala Lys  Gly Tyr Lys
    1175                1180                1185
```

```
Glu Val  Lys Lys Asp Leu Ile  Ile Lys Leu Pro Lys  Tyr Ser Leu
    1190                1195                1200


Phe Glu  Leu Glu Asn Gly Arg  Lys Arg Met Leu Ala  Ser Ala Gly
    1205                1210                1215


Glu Leu  Gln Lys Gly Asn Glu  Leu Ala Leu Pro Ser  Lys Tyr Val
    1220                1225                1230


Asn Phe  Leu Tyr Leu Ala Ser  His Tyr Glu Lys Leu  Lys Gly Ser
    1235                1240                1245


Pro Glu  Asp Asn Glu Gln Lys  Gln Leu Phe Val Glu  Gln His Lys
    1250                1255                1260


His Tyr  Leu Asp Glu Ile Ile  Glu Gln Ile Ser Glu  Phe Ser Lys
    1265                1270                1275


Arg Val  Ile Leu Ala Asp Ala  Asn Leu Asp Lys Val  Leu Ser Ala
    1280                1285                1290


Tyr Asn  Lys His Arg Asp Lys  Pro Ile Arg Glu Gln  Ala Glu Asn
    1295                1300                1305


Ile Ile  His Leu Phe Thr Leu  Thr Asn Leu Gly Ala  Pro Ala Ala
    1310                1315                1320


Phe Lys  Tyr Phe Asp Thr Thr  Ile Asp Arg Lys Arg  Tyr Thr Ser
    1325                1330                1335


Thr Lys  Glu Val Leu Asp Ala  Thr Leu Ile His Gln  Ser Ile Thr
    1340                1345                1350


Gly Leu  Tyr Glu Thr Arg Ile  Asp Leu Ser Gln Leu  Gly Gly Asp
    1355                1360                1365


<210>  306
<211>  984
<212>  PRT
<213>  Campylobacter jejuni

<400>  306

Met Ala Arg Ile Leu Ala Phe Asp Ile Gly Ile Ser Ser Ile Gly Trp
1               5                  10                  15


Ala Phe Ser Glu Asn Asp Glu Leu Lys Asp Cys Gly Val Arg Ile Phe
            20                  25                  30


Thr Lys Val Glu Asn Pro Lys Thr Gly Glu Ser Leu Ala Leu Pro Arg
        35                  40                  45
```

```
Arg Leu Ala Arg Ser Ala Arg Lys Arg Leu Ala Arg Arg Lys Ala Arg
    50                  55                  60

Leu Asn His Leu Lys His Leu Ile Ala Asn Glu Phe Lys Leu Asn Tyr
65                  70                  75                  80

Glu Asp Tyr Gln Ser Phe Asp Glu Ser Leu Ala Lys Ala Tyr Lys Gly
                85                  90                  95

Ser Leu Ile Ser Pro Tyr Glu Leu Arg Phe Arg Ala Leu Asn Glu Leu
            100                 105                 110

Leu Ser Lys Gln Asp Phe Ala Arg Val Ile Leu His Ile Ala Lys Arg
        115                 120                 125

Arg Gly Tyr Asp Asp Ile Lys Asn Ser Asp Asp Lys Glu Lys Gly Ala
    130                 135                 140

Ile Leu Lys Ala Ile Lys Gln Asn Glu Glu Lys Leu Ala Asn Tyr Gln
145                 150                 155                 160

Ser Val Gly Glu Tyr Leu Tyr Lys Glu Tyr Phe Gln Lys Phe Lys Glu
                165                 170                 175

Asn Ser Lys Glu Phe Thr Asn Val Arg Asn Lys Lys Glu Ser Tyr Glu
            180                 185                 190

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

Lys Lys Gln Arg Glu Phe Gly Phe Ser Phe Ser Lys Lys Phe Glu Glu
    210                 215                 220

Glu Val Leu Ser Val Ala Phe Tyr Lys Arg Ala Leu Lys Asp Phe Ser
225                 230                 235                 240

His Leu Val Gly Asn Cys Ser Phe Phe Thr Asp Glu Lys Arg Ala Pro
                245                 250                 255

Lys Asn Ser Pro Leu Ala Phe Met Phe Val Ala Leu Thr Arg Ile Ile
            260                 265                 270

Asn Leu Leu Asn Asn Leu Lys Asn Thr Glu Gly Ile Leu Tyr Thr Lys
        275                 280                 285

Asp Asp Leu Asn Ala Leu Leu Asn Glu Val Leu Lys Asn Gly Thr Leu
    290                 295                 300

Thr Tyr Lys Gln Thr Lys Lys Leu Leu Gly Leu Ser Asp Asp Tyr Glu
305                 310                 315                 320
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```
Phe Lys Gly Glu Lys Gly Thr Tyr Phe Ile Glu Phe Lys Lys Tyr Lys
                325                 330                 335

Glu Phe Ile Lys Ala Leu Gly Glu His Asn Leu Ser Gln Asp Asp Leu
            340                 345                 350

Asn Glu Ile Ala Lys Asp Ile Thr Leu Ile Lys Asp Glu Ile Lys Leu
        355                 360                 365

Lys Lys Ala Leu Ala Lys Tyr Asp Leu Asn Gln Asn Gln Ile Asp Ser
    370                 375                 380

Leu Ser Lys Leu Glu Phe Lys Asp His Leu Asn Ile Ser Phe Lys Ala
385                 390                 395                 400

Leu Lys Leu Val Thr Pro Leu Met Leu Glu Gly Lys Lys Tyr Asp Glu
                405                 410                 415

Ala Cys Asn Glu Leu Asn Leu Lys Val Ala Ile Asn Glu Asp Lys Lys
            420                 425                 430

Asp Phe Leu Pro Ala Phe Asn Glu Thr Tyr Tyr Lys Asp Glu Val Thr
        435                 440                 445

Asn Pro Val Val Leu Arg Ala Ile Lys Glu Tyr Arg Lys Val Leu Asn
    450                 455                 460

Ala Leu Leu Lys Lys Tyr Gly Lys Val His Lys Ile Asn Ile Glu Leu
465                 470                 475                 480

Ala Arg Glu Val Gly Lys Asn His Ser Gln Arg Ala Lys Ile Glu Lys
                485                 490                 495

Glu Gln Asn Glu Asn Tyr Lys Ala Lys Lys Asp Ala Glu Leu Glu Cys
            500                 505                 510

Glu Lys Leu Gly Leu Lys Ile Asn Ser Lys Asn Ile Leu Lys Leu Arg
        515                 520                 525

Leu Phe Lys Glu Gln Lys Glu Phe Cys Ala Tyr Ser Gly Glu Lys Ile
    530                 535                 540

Lys Ile Ser Asp Leu Gln Asp Glu Lys Met Leu Glu Ile Asp His Ile
545                 550                 555                 560

Tyr Pro Tyr Ser Arg Ser Phe Asp Asp Ser Tyr Met Asn Lys Val Leu
                565                 570                 575

Val Phe Thr Lys Gln Asn Gln Glu Lys Leu Asn Gln Thr Pro Phe Glu
            580                 585                 590
```

```
Ala Phe Gly Asn Asp Ser Ala Lys Trp Gln Lys Ile Glu Val Leu Ala
        595                 600                 605

Lys Asn Leu Pro Thr Lys Lys Gln Lys Arg Ile Leu Asp Lys Asn Tyr
    610                 615                 620

Lys Asp Lys Glu Gln Lys Asn Phe Lys Asp Arg Asn Leu Asn Asp Thr
625                 630                 635                 640

Arg Tyr Ile Ala Arg Leu Val Leu Asn Tyr Thr Lys Asp Tyr Leu Asp
                645                 650                 655

Phe Leu Pro Leu Ser Asp Asp Glu Asn Thr Lys Leu Asn Asp Thr Gln
            660                 665                 670

Lys Gly Ser Lys Val His Val Glu Ala Lys Ser Gly Met Leu Thr Ser
        675                 680                 685

Ala Leu Arg His Thr Trp Gly Phe Ser Ala Lys Asp Arg Asn Asn His
    690                 695                 700

Leu His His Ala Ile Asp Ala Val Ile Ile Ala Tyr Ala Asn Asn Ser
705                 710                 715                 720

Ile Val Lys Ala Phe Ser Asp Phe Lys Lys Glu Gln Glu Ser Asn Ser
                725                 730                 735

Ala Glu Leu Tyr Ala Lys Lys Ile Ser Glu Leu Asp Tyr Lys Asn Lys
            740                 745                 750

Arg Lys Phe Phe Glu Pro Phe Ser Gly Phe Arg Gln Lys Val Leu Asp
        755                 760                 765

Lys Ile Asp Glu Ile Phe Val Ser Lys Pro Glu Arg Lys Lys Pro Ser
    770                 775                 780

Gly Ala Leu His Glu Glu Thr Phe Arg Lys Glu Glu Glu Phe Tyr Gln
785                 790                 795                 800

Ser Tyr Gly Gly Lys Glu Gly Val Leu Lys Ala Leu Glu Leu Gly Lys
                805                 810                 815

Ile Arg Lys Val Asn Gly Lys Ile Val Lys Asn Gly Asp Met Phe Arg
            820                 825                 830

Val Asp Ile Phe Lys His Lys Lys Thr Asn Lys Phe Tyr Ala Val Pro
        835                 840                 845

Ile Tyr Thr Met Asp Phe Ala Leu Lys Val Leu Pro Asn Lys Ala Val
    850                 855                 860
```

Ala Arg Ser Lys Lys Gly Glu Ile Lys Asp Trp Ile Leu Met Asp Glu
865 870 875 880

Asn Tyr Glu Phe Cys Phe Ser Leu Tyr Lys Asp Ser Leu Ile Leu Ile
885 890 895

Gln Thr Lys Asp Met Gln Glu Pro Glu Phe Val Tyr Tyr Asn Ala Phe
900 905 910

Thr Ser Ser Thr Val Ser Leu Ile Val Ser Lys His Asp Asn Lys Phe
915 920 925

Glu Thr Leu Ser Lys Asn Gln Lys Ile Leu Phe Lys Asn Ala Asn Glu
930 935 940

Lys Glu Val Ile Ala Lys Ser Ile Gly Ile Gln Asn Leu Lys Val Phe
945 950 955 960

Glu Lys Tyr Ile Val Ser Ala Leu Gly Glu Val Thr Lys Ala Glu Phe
965 970 975

Arg Gln Arg Glu Asp Phe Lys Lys
980

<210> 307
<211> 1436
<212> PRT
<213> Bacteroides fragilis

<400> 307

Met Lys Arg Ile Leu Gly Leu Asp Leu Gly Thr Asn Ser Ile Gly Trp
1 5 10 15

Ala Leu Val Asn Glu Ala Glu Asn Lys Asp Glu Arg Ser Ser Ile Val
20 25 30

Lys Leu Gly Val Arg Val Asn Pro Leu Thr Val Asp Glu Leu Thr Asn
35 40 45

Phe Glu Lys Gly Lys Ser Ile Thr Thr Asn Ala Asp Arg Thr Leu Lys
50 55 60

Arg Gly Met Arg Arg Asn Leu Gln Arg Tyr Lys Leu Arg Arg Glu Thr
65 70 75 80

Leu Thr Glu Val Leu Lys Glu His Lys Leu Ile Thr Glu Asp Thr Ile
85 90 95

Leu Ser Glu Asn Gly Asn Arg Thr Thr Phe Glu Thr Tyr Arg Leu Arg
100 105 110

Ala Lys Ala Val Thr Glu Glu Ile Ser Leu Glu Glu Phe Ala Arg Val

115 120 125

Leu Leu Met Ile Asn Lys Lys Arg Gly Tyr Lys Ser Ser Arg Lys Ala
130 135 140

Lys Gly Val Glu Glu Gly Thr Leu Ile Asp Gly Met Asp Ile Ala Arg
145 150 155 160

Glu Leu Tyr Asn Asn Asn Leu Thr Pro Gly Glu Leu Cys Leu Gln Leu
165 170 175

Leu Asp Ala Gly Lys Lys Phe Leu Pro Asp Phe Tyr Arg Ser Asp Leu
180 185 190

Gln Asn Glu Leu Asp Arg Ile Trp Glu Lys Gln Lys Glu Tyr Tyr Pro
195 200 205

Glu Ile Leu Thr Asp Val Leu Lys Glu Glu Leu Arg Gly Lys Lys Arg
210 215 220

Asp Ala Val Trp Ala Ile Cys Ala Lys Tyr Phe Val Trp Lys Glu Asn
225 230 235 240

Tyr Thr Glu Trp Asn Lys Glu Lys Gly Lys Thr Glu Gln Gln Glu Arg
245 250 255

Glu His Lys Leu Glu Gly Ile Tyr Ser Lys Arg Lys Arg Asp Glu Ala
260 265 270

Lys Arg Glu Asn Leu Gln Trp Arg Val Asn Gly Leu Lys Glu Lys Leu
275 280 285

Ser Leu Glu Gln Leu Val Ile Val Phe Gln Glu Met Asn Thr Gln Ile
290 295 300

Asn Asn Ser Ser Gly Tyr Leu Gly Ala Ile Ser Asp Arg Ser Lys Glu
305 310 315 320

Leu Tyr Phe Asn Lys Gln Thr Val Gly Gln Tyr Gln Met Glu Met Leu
325 330 335

Asp Lys Asn Pro Asn Ala Ser Leu Arg Asn Met Val Phe Tyr Arg Gln
340 345 350

Asp Tyr Leu Asp Glu Phe Asn Met Leu Trp Glu Lys Gln Ala Val Tyr
355 360 365

His Lys Glu Leu Thr Glu Glu Leu Lys Lys Glu Ile Arg Asp Ile Ile
370 375 380

Ile Phe Tyr Gln Arg Arg Leu Lys Ser Gln Lys Gly Leu Ile Gly Phe

385 390 395 400

Cys Glu Phe Glu Ser Arg Gln Ile Glu Val Asp Ile Asp Gly Lys Lys
405 410 415

Lys Ile Lys Thr Val Gly Asn Arg Val Ile Ser Arg Ser Ser Pro Leu
420 425 430

Phe Gln Glu Phe Lys Ile Trp Gln Ile Leu Asn Asn Ile Glu Val Thr
435 440 445

Val Val Gly Lys Lys Arg Lys Arg Arg Lys Leu Lys Glu Asn Tyr Ser
450 455 460

Ala Leu Phe Glu Glu Leu Asn Asp Ala Glu Gln Leu Glu Leu Asn Gly
465 470 475 480

Ser Arg Arg Leu Cys Gln Glu Glu Lys Glu Leu Leu Ala Gln Glu Leu
485 490 495

Phe Ile Arg Asp Lys Met Thr Lys Ser Glu Val Leu Lys Leu Leu Phe
500 505 510

Asp Asn Pro Gln Glu Leu Asp Leu Asn Phe Lys Thr Ile Asp Gly Asn
515 520 525

Lys Thr Gly Tyr Ala Leu Phe Gln Ala Tyr Ser Lys Met Ile Glu Met
530 535 540

Ser Gly His Glu Pro Val Asp Phe Lys Lys Pro Val Glu Lys Val Val
545 550 555 560

Glu Tyr Ile Lys Ala Val Phe Asp Leu Leu Asn Trp Asn Thr Asp Ile
565 570 575

Leu Gly Phe Asn Ser Asn Glu Glu Leu Asp Asn Gln Pro Tyr Tyr Lys
580 585 590

Leu Trp His Leu Leu Tyr Ser Phe Glu Gly Asp Asn Thr Pro Thr Gly
595 600 605

Asn Gly Arg Leu Ile Gln Lys Met Thr Glu Leu Tyr Gly Phe Glu Lys
610 615 620

Glu Tyr Ala Thr Ile Leu Ala Asn Val Ser Phe Gln Asp Asp Tyr Gly
625 630 635 640

Ser Leu Ser Ala Lys Ala Ile His Lys Ile Leu Pro His Leu Lys Glu
645 650 655

Gly Asn Arg Tyr Asp Val Ala Cys Val Tyr Ala Gly Tyr Arg His Ser

660 665 670

Glu Ser Ser Leu Thr Arg Glu Glu Ile Ala Asn Lys Val Leu Lys Asp
675 680 685

Arg Leu Met Leu Leu Pro Lys Asn Ser Leu His Asn Pro Val Val Glu
690 695 700

Lys Ile Leu Asn Gln Met Val Asn Val Ile Asn Val Ile Ile Asp Ile
705 710 715 720

Tyr Gly Lys Pro Asp Glu Ile Arg Val Glu Leu Ala Arg Glu Leu Lys
725 730 735

Lys Asn Ala Lys Glu Arg Glu Glu Leu Thr Lys Ser Ile Ala Gln Thr
740 745 750

Thr Lys Ala His Glu Glu Tyr Lys Thr Leu Leu Gln Thr Glu Phe Gly
755 760 765

Leu Thr Asn Val Ser Arg Thr Asp Ile Leu Arg Tyr Lys Leu Tyr Lys
770 775 780

Glu Leu Glu Ser Cys Gly Tyr Lys Thr Leu Tyr Ser Asn Thr Tyr Ile
785 790 795 800

Ser Arg Glu Lys Leu Phe Ser Lys Glu Phe Asp Ile Glu His Ile Ile
805 810 815

Pro Gln Ala Arg Leu Phe Asp Asp Ser Phe Ser Asn Lys Thr Leu Glu
820 825 830

Ala Arg Ser Val Asn Ile Glu Lys Gly Asn Lys Thr Ala Tyr Asp Phe
835 840 845

Val Lys Glu Lys Phe Gly Glu Ser Gly Ala Asp Asn Ser Leu Glu His
850 855 860

Tyr Leu Asn Asn Ile Glu Asp Leu Phe Lys Ser Gly Lys Ile Ser Lys
865 870 875 880

Thr Lys Tyr Asn Lys Leu Lys Met Ala Glu Gln Asp Ile Pro Asp Gly
885 890 895

Phe Ile Glu Arg Asp Leu Arg Asn Thr Gln Tyr Ile Ala Lys Lys Ala
900 905 910

Leu Ser Met Leu Asn Glu Ile Ser His Arg Val Val Ala Thr Ser Gly
915 920 925

Ser Val Thr Asp Lys Leu Arg Glu Asp Trp Gln Leu Ile Asp Val Met

930 935 940

Lys Glu Leu Asn Trp Glu Lys Tyr Lys Ala Leu Gly Leu Val Glu Tyr
945 950 955 960

Phe Glu Asp Arg Asp Gly Arg Gln Ile Gly Arg Ile Lys Asp Trp Thr
965 970 975

Lys Arg Asn Asp His Arg His His Ala Met Asp Ala Leu Thr Val Ala
980 985 990

Phe Thr Lys Asp Val Phe Ile Gln Tyr Phe Asn Asn Lys Asn Ala Ser
995 1000 1005

Leu Asp Pro Asn Ala Asn Glu His Ala Ile Lys Asn Lys Tyr Phe
1010 1015 1020

Gln Asn Gly Arg Ala Ile Ala Pro Met Pro Leu Arg Glu Phe Arg
1025 1030 1035

Ala Glu Ala Lys Lys His Leu Glu Asn Thr Leu Ile Ser Ile Lys
1040 1045 1050

Ala Lys Asn Lys Val Ile Thr Gly Asn Ile Asn Lys Thr Arg Lys
1055 1060 1065

Lys Gly Gly Val Asn Lys Asn Met Gln Gln Thr Pro Arg Gly Gln
1070 1075 1080

Leu His Leu Glu Thr Ile Tyr Gly Ser Gly Lys Gln Tyr Leu Thr
1085 1090 1095

Lys Glu Glu Lys Val Asn Ala Ser Phe Asp Met Arg Lys Ile Gly
1100 1105 1110

Thr Val Ser Lys Ser Ala Tyr Arg Asp Ala Leu Leu Lys Arg Leu
1115 1120 1125

Tyr Glu Asn Asp Asn Asp Pro Lys Lys Ala Phe Ala Gly Lys Asn
1130 1135 1140

Ser Leu Asp Lys Gln Pro Ile Trp Leu Asp Lys Glu Gln Met Arg
1145 1150 1155

Lys Val Pro Glu Lys Val Lys Ile Val Thr Leu Glu Ala Ile Tyr
1160 1165 1170

Thr Ile Arg Lys Glu Ile Ser Pro Asp Leu Lys Val Asp Lys Val
1175 1180 1185

Ile Asp Val Gly Val Arg Lys Ile Leu Ile Asp Arg Leu Asn Glu

1190 1195 1200

Tyr Gly Asn Asp Ala Lys Lys Ala Phe Ser Asn Leu Asp Lys Asn
1205 1210 1215

Pro Ile Trp Leu Asn Lys Glu Lys Gly Ile Ser Ile Lys Arg Val
1220 1225 1230

Thr Ile Ser Gly Ile Ser Asn Ala Gln Ser Leu His Val Lys Lys
1235 1240 1245

Asp Lys Asp Gly Lys Pro Ile Leu Asp Glu Asn Gly Arg Asn Ile
1250 1255 1260

Pro Val Asp Phe Val Asn Thr Gly Asn Asn His His Val Ala Val
1265 1270 1275

Tyr Tyr Arg Pro Val Ile Asp Lys Arg Gly Gln Leu Val Val Asp
1280 1285 1290

Glu Ala Gly Asn Pro Lys Tyr Glu Leu Glu Glu Val Val Val Ser
1295 1300 1305

Phe Phe Glu Ala Val Thr Arg Ala Asn Leu Gly Leu Pro Ile Ile
1310 1315 1320

Asp Lys Asp Tyr Lys Thr Thr Glu Gly Trp Gln Phe Leu Phe Ser
1325 1330 1335

Met Lys Gln Asn Glu Tyr Phe Val Phe Pro Asn Glu Lys Thr Gly
1340 1345 1350

Phe Asn Pro Lys Glu Ile Asp Leu Leu Asp Val Glu Asn Tyr Gly
1355 1360 1365

Leu Ile Ser Pro Asn Leu Phe Arg Val Gln Lys Phe Ser Leu Lys
1370 1375 1380

Asn Tyr Val Phe Arg His His Leu Glu Thr Thr Ile Lys Asp Thr
1385 1390 1395

Ser Ser Ile Leu Arg Gly Ile Thr Trp Ile Asp Phe Arg Ser Ser
1400 1405 1410

Lys Gly Leu Asp Thr Ile Val Lys Val Arg Val Asn His Ile Gly
1415 1420 1425

Gln Ile Val Ser Val Gly Glu Tyr
1430 1435

<210> 308

<211> 1420
<212> PRT
<213> Bifidobacterium bifidum

<400> 308

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Met Ser Arg Lys Asn Tyr Val Asp Asp Tyr Ala Ile Ser Leu Asp Ile
1               5                  10                  15

Gly Asn Ala Ser Val Gly Trp Ser Ala Phe Thr Pro Asn Tyr Arg Leu
            20                  25                  30

Val Arg Ala Lys Gly His Glu Leu Ile Gly Val Arg Leu Phe Asp Pro
        35                  40                  45

Ala Asp Thr Ala Glu Ser Arg Arg Met Ala Arg Thr Thr Arg Arg Arg
    50                  55                  60

Tyr Ser Arg Arg Arg Trp Arg Leu Arg Leu Leu Asp Ala Leu Phe Asp
65                  70                  75                  80

Gln Ala Leu Ser Glu Ile Asp Pro Ser Phe Leu Ala Arg Arg Lys Tyr
                85                  90                  95

Ser Trp Val His Pro Asp Asp Glu Asn Asn Ala Asp Cys Trp Tyr Gly
            100                 105                 110

Ser Val Leu Phe Asp Ser Asn Glu Gln Asp Lys Arg Phe Tyr Glu Lys
        115                 120                 125

Tyr Pro Thr Ile Tyr His Leu Arg Lys Ala Leu Met Glu Asp Asp Ser
    130                 135                 140

Gln His Asp Ile Arg Glu Ile Tyr Leu Ala Ile His His Met Val Lys
145                 150                 155                 160

Tyr Arg Gly Asn Phe Leu Val Glu Gly Thr Leu Glu Ser Ser Asn Ala
                165                 170                 175

Phe Lys Glu Asp Glu Leu Leu Lys Leu Leu Gly Arg Ile Thr Arg Tyr
            180                 185                 190

Glu Met Ser Glu Gly Glu Gln Asn Ser Asp Ile Glu Gln Asp Asp Glu
        195                 200                 205

Asn Lys Leu Val Ala Pro Ala Asn Gly Gln Leu Ala Asp Ala Leu Cys
    210                 215                 220

Ala Thr Arg Gly Ser Arg Ser Met Arg Val Asp Asn Ala Leu Glu Ala
225                 230                 235                 240

Leu Ser Ala Val Asn Asp Leu Ser Arg Glu Gln Arg Ala Ile Val Lys
                245                 250                 255
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Ala Ile Phe Ala Gly Leu Glu Gly Asn Lys Leu Asp Leu Ala Lys Ile
            260                 265                 270

Phe Val Ser Lys Glu Phe Ser Ser Glu Asn Lys Lys Ile Leu Gly Ile
        275                 280                 285

Tyr Phe Asn Lys Ser Asp Tyr Glu Glu Lys Cys Val Gln Ile Val Asp
    290                 295                 300

Ser Gly Leu Leu Asp Asp Glu Glu Arg Glu Phe Leu Asp Arg Met Gln
305                 310                 315                 320

Gly Gln Tyr Asn Ala Ile Ala Leu Lys Gln Leu Leu Gly Arg Ser Thr
                325                 330                 335

Ser Val Ser Asp Ser Lys Cys Ala Ser Tyr Asp Ala His Arg Ala Asn
            340                 345                 350

Trp Asn Leu Ile Lys Leu Gln Leu Arg Thr Lys Glu Asn Glu Lys Asp
        355                 360                 365

Ile Asn Glu Asn Tyr Gly Ile Leu Val Gly Trp Lys Ile Asp Ser Gly
    370                 375                 380

Gln Arg Lys Ser Val Arg Gly Glu Ser Ala Tyr Glu Asn Met Arg Lys
385                 390                 395                 400

Lys Ala Asn Val Phe Phe Lys Lys Met Ile Glu Thr Ser Asp Leu Ser
                405                 410                 415

Glu Thr Asp Lys Asn Arg Leu Ile His Asp Ile Glu Glu Asp Lys Leu
            420                 425                 430

Phe Pro Ile Gln Arg Asp Ser Asp Asn Gly Val Ile Pro His Gln Leu
        435                 440                 445

His Gln Asn Glu Leu Lys Gln Ile Ile Lys Lys Gln Gly Lys Tyr Tyr
    450                 455                 460

Pro Phe Leu Leu Asp Ala Phe Glu Lys Asp Gly Lys Gln Ile Asn Lys
465                 470                 475                 480

Ile Glu Gly Leu Leu Thr Phe Arg Val Pro Tyr Phe Val Gly Pro Leu
                485                 490                 495

Val Val Pro Glu Asp Leu Gln Lys Ser Asp Asn Ser Glu Asn His Trp
            500                 505                 510

Met Val Arg Lys Lys Lys Gly Glu Ile Thr Pro Trp Asn Phe Asp Glu
        515                 520                 525
```

```
Met Val Asp Lys Asp Ala Ser Gly Arg Lys Phe Ile Glu Arg Leu Val
    530                 535                 540

Gly Thr Asp Ser Tyr Leu Leu Gly Glu Pro Thr Leu Pro Lys Asn Ser
545                 550                 555                 560

Leu Leu Tyr Gln Glu Tyr Glu Val Leu Asn Glu Leu Asn Asn Val Arg
                565                 570                 575

Leu Ser Val Arg Thr Gly Asn His Trp Asn Asp Lys Arg Arg Met Arg
            580                 585                 590

Leu Gly Arg Glu Glu Lys Thr Leu Leu Cys Gln Arg Leu Phe Met Lys
        595                 600                 605

Gly Gln Thr Val Thr Lys Arg Thr Ala Glu Asn Leu Leu Arg Lys Glu
    610                 615                 620

Tyr Gly Arg Thr Tyr Glu Leu Ser Gly Leu Ser Asp Glu Ser Lys Phe
625                 630                 635                 640

Thr Ser Ser Leu Ser Thr Tyr Gly Lys Met Cys Arg Ile Phe Gly Glu
                645                 650                 655

Lys Tyr Val Asn Glu His Arg Asp Leu Met Glu Lys Ile Val Glu Leu
            660                 665                 670

Gln Thr Val Phe Glu Asp Lys Glu Thr Leu Leu His Gln Leu Arg Gln
        675                 680                 685

Leu Glu Gly Ile Ser Glu Ala Asp Cys Ala Leu Leu Val Asn Thr His
    690                 695                 700

Tyr Thr Gly Trp Gly Arg Leu Ser Arg Lys Leu Leu Thr Thr Lys Ala
705                 710                 715                 720

Gly Glu Cys Lys Ile Ser Asp Asp Phe Ala Pro Arg Lys His Ser Ile
                725                 730                 735

Ile Glu Ile Met Arg Ala Glu Asp Arg Asn Leu Met Glu Ile Ile Thr
            740                 745                 750

Asp Lys Gln Leu Gly Phe Ser Asp Trp Ile Glu Gln Glu Asn Leu Gly
        755                 760                 765

Ala Glu Asn Gly Ser Ser Leu Met Glu Val Val Asp Asp Leu Arg Val
    770                 775                 780

Ser Pro Lys Val Lys Arg Gly Ile Ile Gln Ser Ile Arg Leu Ile Asp
785                 790                 795                 800
```

```
Asp Ile Ser Lys Ala Val Gly Lys Arg Pro Ser Arg Ile Phe Leu Glu
                805                 810                 815

Leu Ala Asp Asp Ile Gln Pro Ser Gly Arg Thr Ile Ser Arg Lys Ser
            820                 825                 830

Arg Leu Gln Asp Leu Tyr Arg Asn Ala Asn Leu Gly Lys Glu Phe Lys
        835                 840                 845

Gly Ile Ala Asp Glu Leu Asn Ala Cys Ser Asp Lys Asp Leu Gln Asp
    850                 855                 860

Asp Arg Leu Phe Leu Tyr Tyr Thr Gln Leu Gly Lys Asp Met Tyr Thr
865                 870                 875                 880

Gly Glu Glu Leu Asp Leu Asp Arg Leu Ser Ser Ala Tyr Asp Ile Asp
                885                 890                 895

His Ile Ile Pro Gln Ala Val Thr Gln Asn Asp Ser Ile Asp Asn Arg
            900                 905                 910

Val Leu Val Ala Arg Ala Glu Asn Ala Arg Lys Thr Asp Ser Phe Thr
        915                 920                 925

Tyr Met Pro Gln Ile Ala Asp Arg Met Arg Asn Phe Trp Gln Ile Leu
    930                 935                 940

Leu Asp Asn Gly Leu Ile Ser Arg Val Lys Phe Glu Arg Leu Thr Arg
945                 950                 955                 960

Gln Asn Glu Phe Ser Glu Arg Glu Lys Glu Arg Phe Val Gln Arg Ser
                965                 970                 975

Leu Val Glu Thr Arg Gln Ile Met Lys Asn Val Ala Thr Leu Met Arg
            980                 985                 990

Gln Arg Tyr Gly Asn Ser Ala Ala  Val Ile Gly Leu Asn  Ala Glu Leu
        995                 1000                1005

Thr Lys  Glu Met His Arg Tyr  Leu Gly Phe Ser His  Lys Asn Arg
    1010                1015                1020

Asp Ile  Asn Asp Tyr His His  Ala Gln Asp Ala Leu  Cys Val Gly
    1025                1030                1035

Ile Ala  Gly Gln Phe Ala Ala  Asn Arg Gly Phe Phe  Ala Asp Gly
    1040                1045                1050

Glu Val  Ser Asp Gly Ala Gln  Asn Ser Tyr Asn Gln  Tyr Leu Arg
    1055                1060                1065
```

```
Asp Tyr  Leu Arg Gly Tyr Arg  Glu Lys Leu Ser Ala  Glu Asp Arg
    1070                 1075                 1080

Lys Gln  Gly Arg Ala Phe Gly  Phe Ile Val Gly Ser  Met Arg Ser
    1085                 1090                 1095

Gln Asp  Glu Gln Lys Arg Val  Asn Pro Arg Thr Gly  Glu Val Val
    1100                 1105                 1110

Trp Ser  Glu Glu Asp Lys Asp  Tyr Leu Arg Lys Val  Met Asn Tyr
    1115                 1120                 1125

Arg Lys  Met Leu Val Thr Gln  Lys Val Gly Asp Asp  Phe Gly Ala
    1130                 1135                 1140

Leu Tyr  Asp Glu Thr Arg Tyr  Ala Ala Thr Asp Pro  Lys Gly Ile
    1145                 1150                 1155

Lys Gly  Ile Pro Phe Asp Gly  Ala Lys Gln Asp Thr  Ser Leu Tyr
    1160                 1165                 1170

Gly Gly  Phe Ser Ser Ala Lys  Pro Ala Tyr Ala Val  Leu Ile Glu
    1175                 1180                 1185

Ser Lys  Gly Lys Thr Arg Leu  Val Asn Val Thr Met  Gln Glu Tyr
    1190                 1195                 1200

Ser Leu  Leu Gly Asp Arg Pro  Ser Asp Asp Glu Leu  Arg Lys Val
    1205                 1210                 1215

Leu Ala  Lys Lys Lys Ser Glu  Tyr Ala Lys Ala Asn  Ile Leu Leu
    1220                 1225                 1230

Arg His  Val Pro Lys Met Gln  Leu Ile Arg Tyr Gly  Gly Gly Leu
    1235                 1240                 1245

Met Val  Ile Lys Ser Ala Gly  Glu Leu Asn Asn Ala  Gln Gln Leu
    1250                 1255                 1260

Trp Leu  Pro Tyr Glu Glu Tyr  Cys Tyr Phe Asp Asp  Leu Ser Gln
    1265                 1270                 1275

Gly Lys  Gly Ser Leu Glu Lys  Asp Asp Leu Lys Lys  Leu Leu Asp
    1280                 1285                 1290

Ser Ile  Leu Gly Ser Val Gln  Cys Leu Tyr Pro Trp  His Arg Phe
    1295                 1300                 1305

Thr Glu  Glu Glu Leu Ala Asp  Leu His Val Ala Phe  Asp Lys Leu
    1310                 1315                 1320
```

```
Pro Glu  Asp Glu Lys Lys Asn  Val Ile Thr Gly Ile  Val Ser Ala
    1325                 1330                 1335


Leu His  Ala Asp Ala Lys Thr  Ala Asn Leu Ser Ile  Val Gly Met
    1340                 1345                 1350


Thr Gly  Ser Trp Arg Arg Met  Asn Asn Lys Ser Gly  Tyr Thr Phe
    1355                 1360                 1365


Ser Asp  Glu Asp Glu Phe Ile  Phe Gln Ser Pro Ser  Gly Leu Phe
    1370                 1375                 1380


Glu Lys  Arg Val Thr Val Gly  Glu Leu Lys Arg Lys  Ala Lys Lys
    1385                 1390                 1395


Glu Val  Asn Ser Lys Tyr Arg  Thr Asn Glu Lys Arg  Leu Pro Thr
    1400                 1405                 1410


Leu Ser  Gly Ala Ser Gln Pro
    1415                 1420
```

<210> 309
<211> 1397
<212> PRT
<213> Veillonella atypica

<400> 309

```
Met Glu Thr Gln Thr Ser Asn Gln Leu Ile Thr Ser His Leu Lys Asp
1               5                   10                  15


Tyr Pro Lys Gln Asp Tyr Phe Val Gly Leu Asp Ile Gly Thr Asn Ser
            20                  25                  30


Val Gly Trp Ala Val Thr Asn Thr Ser Tyr Glu Leu Leu Lys Phe His
        35                  40                  45


Ser His Lys Met Trp Gly Ser Arg Leu Phe Glu Glu Gly Glu Ser Ala
    50                  55                  60


Val Thr Arg Arg Gly Phe Arg Ser Met Arg Arg Arg Leu Glu Arg Arg
65                  70                  75                  80


Lys Leu Arg Leu Lys Leu Leu Glu Glu Leu Phe Ala Asp Ala Met Ala
                85                  90                  95


Gln Val Asp Ser Thr Phe Phe Ile Arg Leu His Glu Ser Lys Tyr His
            100                 105                 110


Tyr Glu Asp Lys Thr Thr Gly His Ser Ser Lys His Ile Leu Phe Ile
        115                 120                 125
```

```
Asp Glu Asp Tyr Thr Asp Gln Asp Tyr Phe Thr Glu Tyr Pro Thr Ile
    130                 135                 140

Tyr His Leu Arg Lys Asp Leu Met Glu Asn Gly Thr Asp Asp Ile Arg
145                 150                 155                 160

Lys Leu Phe Leu Ala Val His His Ile Leu Lys Tyr Arg Gly Asn Phe
                165                 170                 175

Leu Tyr Glu Gly Ala Thr Phe Asn Ser Asn Ala Phe Thr Phe Glu Asp
            180                 185                 190

Val Leu Lys Gln Ala Leu Val Asn Ile Thr Phe Asn Cys Phe Asp Thr
        195                 200                 205

Asn Ser Ala Ile Ser Ser Ile Ser Asn Ile Leu Met Glu Ser Gly Lys
    210                 215                 220

Thr Lys Ser Asp Lys Ala Lys Ala Ile Glu Arg Leu Val Asp Thr Tyr
225                 230                 235                 240

Thr Val Phe Asp Glu Val Asn Thr Pro Asp Lys Pro Gln Lys Glu Gln
                245                 250                 255

Val Lys Glu Asp Lys Lys Thr Leu Lys Ala Phe Ala Asn Leu Val Leu
            260                 265                 270

Gly Leu Ser Ala Asn Leu Ile Asp Leu Phe Gly Ser Val Glu Asp Ile
        275                 280                 285

Asp Asp Asp Leu Lys Lys Leu Gln Ile Val Gly Asp Thr Tyr Asp Glu
    290                 295                 300

Lys Arg Asp Glu Leu Ala Lys Val Trp Gly Asp Glu Ile His Ile Ile
305                 310                 315                 320

Asp Asp Cys Lys Ser Val Tyr Asp Ala Ile Ile Leu Met Ser Ile Lys
                325                 330                 335

Glu Pro Gly Leu Thr Ile Ser Gln Ser Lys Val Lys Ala Phe Asp Lys
            340                 345                 350

His Lys Glu Asp Leu Val Ile Leu Lys Ser Leu Leu Lys Leu Asp Arg
        355                 360                 365

Asn Val Tyr Asn Glu Met Phe Lys Ser Asp Lys Lys Gly Leu His Asn
    370                 375                 380

Tyr Val His Tyr Ile Lys Gln Gly Arg Thr Glu Glu Thr Ser Cys Ser
385                 390                 395                 400
```

```
Arg Glu Asp Phe Tyr Lys Tyr Thr Lys Lys Ile Val Glu Gly Leu Ala
                405                 410                 415

Asp Ser Lys Asp Lys Glu Tyr Ile Leu Asn Glu Ile Glu Leu Gln Thr
            420                 425                 430

Leu Leu Pro Leu Gln Arg Ile Lys Asp Asn Gly Val Ile Pro Tyr Gln
        435                 440                 445

Leu His Leu Glu Glu Leu Lys Val Ile Leu Asp Lys Cys Gly Pro Lys
    450                 455                 460

Phe Pro Phe Leu His Thr Val Ser Asp Gly Phe Ser Val Thr Glu Lys
465                 470                 475                 480

Leu Ile Lys Met Leu Glu Phe Arg Ile Pro Tyr Tyr Val Gly Pro Leu
                485                 490                 495

Asn Thr His His Asn Ile Asp Asn Gly Gly Phe Ser Trp Ala Val Arg
            500                 505                 510

Lys Gln Ala Gly Arg Val Thr Pro Trp Asn Phe Glu Glu Lys Ile Asp
        515                 520                 525

Arg Glu Lys Ser Ala Ala Ala Phe Ile Lys Asn Leu Thr Asn Lys Cys
    530                 535                 540

Thr Tyr Leu Phe Gly Glu Asp Val Leu Pro Lys Ser Ser Leu Leu Tyr
545                 550                 555                 560

Ser Glu Phe Met Leu Leu Asn Glu Leu Asn Asn Val Arg Ile Asp Gly
                565                 570                 575

Lys Ala Leu Ala Gln Gly Val Lys Gln His Leu Ile Asp Ser Ile Phe
            580                 585                 590

Lys Gln Asp His Lys Lys Met Thr Lys Asn Arg Ile Glu Leu Phe Leu
        595                 600                 605

Lys Asp Asn Asn Tyr Ile Thr Lys Lys His Lys Pro Glu Ile Thr Gly
    610                 615                 620

Leu Asp Gly Glu Ile Lys Asn Asp Leu Thr Ser Tyr Arg Asp Met Val
625                 630                 635                 640

Arg Ile Leu Gly Asn Asn Phe Asp Val Ser Met Ala Glu Asp Ile Ile
                645                 650                 655

Thr Asp Ile Thr Ile Phe Gly Glu Ser Lys Lys Met Leu Arg Gln Thr
            660                 665                 670
```

```
Leu Arg Asn Lys Phe Gly Ser Gln Leu Asn Asp Glu Thr Ile Lys Lys
        675                 680                 685

Leu Ser Lys Leu Arg Tyr Arg Asp Trp Gly Arg Leu Ser Lys Lys Leu
    690                 695                 700

Leu Lys Gly Ile Asp Gly Cys Asp Lys Ala Gly Asn Gly Ala Pro Lys
705                 710                 715                 720

Thr Ile Ile Glu Leu Met Arg Asn Asp Ser Tyr Asn Leu Met Glu Ile
                725                 730                 735

Leu Gly Asp Lys Phe Ser Phe Met Glu Cys Ile Glu Glu Glu Asn Ala
            740                 745                 750

Lys Leu Ala Gln Gly Gln Val Val Asn Pro His Asp Ile Ile Asp Glu
        755                 760                 765

Leu Ala Leu Ser Pro Ala Val Lys Arg Ala Val Trp Gln Ala Leu Arg
    770                 775                 780

Ile Val Asp Glu Val Ala His Ile Lys Lys Ala Leu Pro Ser Arg Ile
785                 790                 795                 800

Phe Val Glu Val Ala Arg Thr Asn Lys Ser Glu Lys Lys Lys Lys Asp
                805                 810                 815

Ser Arg Gln Lys Arg Leu Ser Asp Leu Tyr Ser Ala Ile Lys Lys Asp
            820                 825                 830

Asp Val Leu Gln Ser Gly Leu Gln Asp Lys Glu Phe Gly Ala Leu Lys
        835                 840                 845

Ser Gly Leu Ala Asn Tyr Asp Asp Ala Ala Leu Arg Ser Lys Lys Leu
    850                 855                 860

Tyr Leu Tyr Tyr Thr Gln Met Gly Arg Cys Ala Tyr Thr Gly Asn Ile
865                 870                 875                 880

Ile Asp Leu Asn Gln Leu Asn Thr Asp Asn Tyr Asp Ile Asp His Ile
                885                 890                 895

Tyr Pro Arg Ser Leu Thr Lys Asp Asp Ser Phe Asp Asn Leu Val Leu
            900                 905                 910

Cys Glu Arg Thr Ala Asn Ala Lys Lys Ser Asp Ile Tyr Pro Ile Asp
        915                 920                 925

Asn Arg Ile Gln Thr Lys Gln Lys Pro Phe Trp Ala Phe Leu Lys His
    930                 935                 940
```

```
Gln Gly Leu Ile Ser Glu Arg Lys Tyr Glu Arg Leu Thr Arg Ile Ala
945                 950                 955                 960

Pro Leu Thr Ala Asp Asp Leu Ser Gly Phe Ile Ala Arg Gln Leu Val
                965                 970                 975

Glu Thr Asn Gln Ser Val Lys Ala Thr Thr Thr Leu Leu Arg Arg Leu
            980                 985                 990

Tyr Pro Asp Ile Asp Val Val Phe  Val Lys Ala Glu Asn  Val Ser Asp
        995                 1000                1005

Phe Arg  His Asn Asn Asn Phe  Ile Lys Val Arg Ser  Leu Asn His
    1010                1015                1020

His His  His Ala Lys Asp Ala  Tyr Leu Asn Ile Val  Val Gly Asn
    1025                1030                1035

Val Tyr  His Glu Lys Phe Thr  Arg Asn Phe Arg Leu  Phe Phe Lys
    1040                1045                1050

Lys Asn  Gly Ala Asn Arg Thr  Tyr Asn Leu Ala Lys  Met Phe Asn
    1055                1060                1065

Tyr Asp  Val Ile Cys Thr Asn  Ala Gln Asp Gly Lys  Ala Trp Asp
    1070                1075                1080

Val Lys  Thr Ser Met Asn Thr  Val Lys Lys Met Met  Ala Ser Asn
    1085                1090                1095

Asp Val  Arg Val Thr Arg Arg  Leu Leu Glu Gln Ser  Gly Ala Leu
    1100                1105                1110

Ala Asp  Ala Thr Ile Tyr Lys  Ala Ser Val Ala Ala  Lys Ala Lys
    1115                1120                1125

Asp Gly  Ala Tyr Ile Gly Met  Lys Thr Lys Tyr Ser  Val Phe Ala
    1130                1135                1140

Asp Val  Thr Lys Tyr Gly Gly  Met Thr Lys Ile Lys  Asn Ala Tyr
    1145                1150                1155

Ser Ile  Ile Val Gln Tyr Thr  Gly Lys Lys Gly Glu  Glu Ile Lys
    1160                1165                1170

Glu Ile  Val Pro Leu Pro Ile  Tyr Leu Ile Asn Arg  Asn Ala Thr
    1175                1180                1185

Asp Ile  Glu Leu Ile Asp Tyr  Val Lys Ser Val Ile  Pro Lys Ala
    1190                1195                1200
```

Lys Asp Ile Ser Ile Lys Tyr Arg Lys Leu Cys Ile Asn Gln Leu
1205 1210 1215

Val Lys Val Asn Gly Phe Tyr Tyr Tyr Leu Gly Gly Lys Thr Asn
1220 1225 1230

Asp Lys Ile Tyr Ile Asp Asn Ala Ile Glu Leu Val Val Pro His
1235 1240 1245

Asp Ile Ala Thr Tyr Ile Lys Leu Leu Asp Lys Tyr Asp Leu Leu
1250 1255 1260

Arg Lys Glu Asn Lys Thr Leu Lys Ala Ser Ser Ile Thr Thr Ser
1265 1270 1275

Ile Tyr Asn Ile Asn Thr Ser Thr Val Val Ser Leu Asn Lys Val
1280 1285 1290

Gly Ile Asp Val Phe Asp Tyr Phe Met Ser Lys Leu Arg Thr Pro
1295 1300 1305

Leu Tyr Met Lys Met Lys Gly Asn Lys Val Asp Glu Leu Ser Ser
1310 1315 1320

Thr Gly Arg Ser Lys Phe Ile Lys Met Thr Leu Glu Glu Gln Ser
1325 1330 1335

Ile Tyr Leu Leu Glu Val Leu Asn Leu Leu Thr Asn Ser Lys Thr
1340 1345 1350

Thr Phe Asp Val Lys Pro Leu Gly Ile Thr Gly Ser Arg Ser Thr
1355 1360 1365

Ile Gly Val Lys Ile His Asn Leu Asp Glu Phe Lys Ile Ile Asn
1370 1375 1380

Glu Ser Ile Thr Gly Leu Tyr Ser Asn Glu Val Thr Ile Val
1385 1390 1395

<210> 310
<211> 1363
<212> PRT
<213> Lactobacillus rhamnosus

<400> 310

Met Thr Lys Leu Asn Gln Pro Tyr Gly Ile Gly Leu Asp Ile Gly Ser
1 5 10 15

Asn Ser Ile Gly Phe Ala Val Val Asp Ala Asn Ser His Leu Leu Arg
20 25 30

```
Leu Lys Gly Glu Thr Ala Ile Gly Ala Arg Leu Phe Arg Glu Gly Gln
        35                  40                  45

Ser Ala Ala Asp Arg Arg Gly Ser Arg Thr Thr Arg Arg Arg Leu Ser
    50                  55                  60

Arg Thr Arg Trp Arg Leu Ser Phe Leu Arg Asp Phe Phe Ala Pro His
65                  70                  75                  80

Ile Thr Lys Ile Asp Pro Asp Phe Phe Leu Arg Gln Lys Tyr Ser Glu
                85                  90                  95

Ile Ser Pro Lys Asp Lys Asp Arg Phe Lys Tyr Glu Lys Arg Leu Phe
            100                 105                 110

Asn Asp Arg Thr Asp Ala Glu Phe Tyr Glu Asp Tyr Pro Ser Met Tyr
        115                 120                 125

His Leu Arg Leu His Leu Met Thr His Thr His Lys Ala Asp Pro Arg
    130                 135                 140

Glu Ile Phe Leu Ala Ile His His Ile Leu Lys Ser Arg Gly His Phe
145                 150                 155                 160

Leu Thr Pro Gly Ala Ala Lys Asp Phe Asn Thr Asp Lys Val Asp Leu
                165                 170                 175

Glu Asp Ile Phe Pro Ala Leu Thr Glu Ala Tyr Ala Gln Val Tyr Pro
            180                 185                 190

Asp Leu Glu Leu Thr Phe Asp Leu Ala Lys Ala Asp Asp Phe Lys Ala
        195                 200                 205

Lys Leu Leu Asp Glu Gln Ala Thr Pro Ser Asp Thr Gln Lys Ala Leu
    210                 215                 220

Val Asn Leu Leu Leu Ser Ser Asp Gly Glu Lys Glu Ile Val Lys Lys
225                 230                 235                 240

Arg Lys Gln Val Leu Thr Glu Phe Ala Lys Ala Ile Thr Gly Leu Lys
                245                 250                 255

Thr Lys Phe Asn Leu Ala Leu Gly Thr Glu Val Asp Glu Ala Asp Ala
            260                 265                 270

Ser Asn Trp Gln Phe Ser Met Gly Gln Leu Asp Asp Lys Trp Ser Asn
        275                 280                 285

Ile Glu Thr Ser Met Thr Asp Gln Gly Thr Glu Ile Phe Glu Gln Ile
    290                 295                 300
```

```
Gln Glu Leu Tyr Arg Ala Arg Leu Leu Asn Gly Ile Val Pro Ala Gly
305                 310                 315                 320

Met Ser Leu Ser Gln Ala Lys Val Ala Asp Tyr Gly Gln His Lys Glu
                325                 330                 335

Asp Leu Glu Leu Phe Lys Thr Tyr Leu Lys Lys Leu Asn Asp His Glu
            340                 345                 350

Leu Ala Lys Thr Ile Arg Gly Leu Tyr Asp Arg Tyr Ile Asn Gly Asp
        355                 360                 365

Asp Ala Lys Pro Phe Leu Arg Glu Asp Phe Val Lys Ala Leu Thr Lys
    370                 375                 380

Glu Val Thr Ala His Pro Asn Glu Val Ser Glu Gln Leu Leu Asn Arg
385                 390                 395                 400

Met Gly Gln Ala Asn Phe Met Leu Lys Gln Arg Thr Lys Ala Asn Gly
                405                 410                 415

Ala Ile Pro Ile Gln Leu Gln Gln Arg Glu Leu Asp Gln Ile Ile Ala
            420                 425                 430

Asn Gln Ser Lys Tyr Tyr Asp Trp Leu Ala Ala Pro Asn Pro Val Glu
        435                 440                 445

Ala His Arg Trp Lys Met Pro Tyr Gln Leu Asp Glu Leu Leu Asn Phe
    450                 455                 460

His Ile Pro Tyr Tyr Val Gly Pro Leu Ile Thr Pro Lys Gln Gln Ala
465                 470                 475                 480

Glu Ser Gly Glu Asn Val Phe Ala Trp Met Val Arg Lys Asp Pro Ser
                485                 490                 495

Gly Asn Ile Thr Pro Tyr Asn Phe Asp Glu Lys Val Asp Arg Glu Ala
            500                 505                 510

Ser Ala Asn Thr Phe Ile Gln Arg Met Lys Thr Thr Asp Thr Tyr Leu
        515                 520                 525

Ile Gly Glu Asp Val Leu Pro Lys Gln Ser Leu Leu Tyr Gln Lys Tyr
    530                 535                 540

Glu Val Leu Asn Glu Leu Asn Asn Val Arg Ile Asn Asn Glu Cys Leu
545                 550                 555                 560

Gly Thr Asp Gln Lys Gln Arg Leu Ile Arg Glu Val Phe Glu Arg His
                565                 570                 575
```

```
Ser Ser Val Thr Ile Lys Gln Val Ala Asp Asn Leu Val Ala His Gly
            580                 585                 590

Asp Phe Ala Arg Arg Pro Glu Ile Arg Gly Leu Ala Asp Glu Lys Arg
        595                 600                 605

Phe Leu Ser Ser Leu Ser Thr Tyr His Gln Leu Lys Glu Ile Leu His
    610                 615                 620

Glu Ala Ile Asp Asp Pro Thr Lys Leu Leu Asp Ile Glu Asn Ile Ile
625                 630                 635                 640

Thr Trp Ser Thr Val Phe Glu Asp His Thr Ile Phe Glu Thr Lys Leu
                645                 650                 655

Ala Glu Ile Glu Trp Leu Asp Pro Lys Lys Ile Asn Glu Leu Ser Gly
            660                 665                 670

Ile Arg Tyr Arg Gly Trp Gly Gln Phe Ser Arg Lys Leu Leu Asp Gly
        675                 680                 685

Leu Lys Leu Gly Asn Gly His Thr Val Ile Gln Glu Leu Met Leu Ser
    690                 695                 700

Asn His Asn Leu Met Gln Ile Leu Ala Asp Glu Thr Leu Lys Glu Thr
705                 710                 715                 720

Met Thr Glu Leu Asn Gln Asp Lys Leu Lys Thr Asp Asp Ile Glu Asp
                725                 730                 735

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

Gln Val Leu Arg Val Val Glu Asp Ile Lys His Ala Ala Asn Gly Gln
        755                 760                 765

Asp Pro Ser Trp Leu Phe Ile Glu Thr Ala Asp Gly Thr Gly Thr Ala
    770                 775                 780

Gly Lys Arg Thr Gln Ser Arg Gln Lys Gln Ile Gln Thr Val Tyr Ala
785                 790                 795                 800

Asn Ala Ala Gln Glu Leu Ile Asp Ser Ala Val Arg Gly Glu Leu Glu
                805                 810                 815

Asp Lys Ile Ala Asp Lys Ala Ser Phe Thr Asp Arg Leu Val Leu Tyr
            820                 825                 830

Phe Met Gln Gly Gly Arg Asp Ile Tyr Thr Gly Ala Pro Leu Asn Ile
        835                 840                 845
```

```
Asp Gln Leu Ser His Tyr Asp Ile Asp His Ile Leu Pro Gln Ser Leu
    850                 855                 860

Ile Lys Asp Asp Ser Leu Asp Asn Arg Val Leu Val Asn Ala Thr Ile
865                 870                 875                 880

Asn Arg Glu Lys Asn Asn Val Phe Ala Ser Thr Leu Phe Ala Gly Lys
                885                 890                 895

Met Lys Ala Thr Trp Arg Lys Trp His Glu Ala Gly Leu Ile Ser Gly
            900                 905                 910

Arg Lys Leu Arg Asn Leu Met Leu Arg Pro Asp Glu Ile Asp Lys Phe
        915                 920                 925

Ala Lys Gly Phe Val Ala Arg Gln Leu Val Glu Thr Arg Gln Ile Ile
    930                 935                 940

Lys Leu Thr Glu Gln Ile Ala Ala Ala Gln Tyr Pro Asn Thr Lys Ile
945                 950                 955                 960

Ile Ala Val Lys Ala Gly Leu Ser His Gln Leu Arg Glu Glu Leu Asp
                965                 970                 975

Phe Pro Lys Asn Arg Asp Val Asn His Tyr His His Ala Phe Asp Ala
            980                 985                 990

Phe Leu Ala Ala Arg Ile Gly Thr  Tyr Leu Leu Lys Arg  Tyr Pro Lys
        995                 1000                1005

Leu Ala  Pro Phe Phe Thr Tyr  Gly Glu Phe Ala Lys  Val Asp Val
    1010                1015                1020

Lys Lys  Phe Arg Glu Phe Asn  Phe Ile Gly Ala Leu  Thr His Ala
    1025                1030                1035

Lys Lys  Asn Ile Ile Ala Lys  Asp Thr Gly Glu Ile  Val Trp Asp
    1040                1045                1050

Lys Glu  Arg Asp Ile Arg Glu  Leu Asp Arg Ile Tyr  Asn Phe Lys
    1055                1060                1065

Arg Met  Leu Ile Thr His Glu  Val Tyr Phe Glu Thr  Ala Asp Leu
    1070                1075                1080

Phe Lys  Gln Thr Ile Tyr Ala  Ala Lys Asp Ser Lys  Glu Arg Gly
    1085                1090                1095

Gly Ser  Lys Gln Leu Ile Pro  Lys Lys Gln Gly Tyr  Pro Thr Gln
    1100                1105                1110
```

```
Val Tyr  Gly Gly Tyr Thr Gln  Glu Ser Gly Ser Tyr  Asn Ala Leu
    1115                 1120                 1125

Val Arg  Val Ala Glu Ala Asp  Thr Thr Ala Tyr Gln  Val Ile Lys
    1130                 1135                 1140

Ile Ser  Ala Gln Asn Ala Ser  Lys Ile Ala Ser Ala  Asn Leu Lys
    1145                 1150                 1155

Ser Arg  Glu Lys Gly Lys Gln  Leu Leu Asn Glu Ile  Val Val Lys
    1160                 1165                 1170

Gln Leu  Ala Lys Arg Arg Lys  Asn Trp Lys Pro Ser  Ala Asn Ser
    1175                 1180                 1185

Phe Lys  Ile Val Ile Pro Arg  Phe Gly Met Gly Thr  Leu Phe Gln
    1190                 1195                 1200

Asn Ala  Lys Tyr Gly Leu Phe  Met Val Asn Ser Asp  Thr Tyr Tyr
    1205                 1210                 1215

Arg Asn  Tyr Gln Glu Leu Trp  Leu Ser Arg Glu Asn  Gln Lys Leu
    1220                 1225                 1230

Leu Lys  Lys Leu Phe Ser Ile  Lys Tyr Glu Lys Thr  Gln Met Asn
    1235                 1240                 1245

His Asp  Ala Leu Gln Val Tyr  Lys Ala Ile Ile Asp  Gln Val Glu
    1250                 1255                 1260

Lys Phe  Phe Lys Leu Tyr Asp  Ile Asn Gln Phe Arg  Ala Lys Leu
    1265                 1270                 1275

Ser Asp  Ala Ile Glu Arg Phe  Glu Lys Leu Pro Ile  Asn Thr Asp
    1280                 1285                 1290

Gly Asn  Lys Ile Gly Lys Thr  Glu Thr Leu Arg Gln  Ile Leu Ile
    1295                 1300                 1305

Gly Leu  Gln Ala Asn Gly Thr  Arg Ser Asn Val Lys  Asn Leu Gly
    1310                 1315                 1320

Ile Lys  Thr Asp Leu Gly Leu  Leu Gln Val Gly Ser  Gly Ile Lys
    1325                 1330                 1335

Leu Asp  Lys Asp Thr Gln Ile  Val Tyr Gln Ser Pro  Ser Gly Leu
    1340                 1345                 1350

Phe Lys  Arg Arg Ile Pro Leu  Ala Asp Leu
    1355                 1360
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<212> PRT
<213> Filifactor alocis

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Met Thr Lys Glu Tyr Tyr Leu Gly Leu Asp Val Gly Thr Asn Ser Val
1 5 10 15

Gly Trp Ala Val Thr Asp Ser Gln Tyr Asn Leu Cys Lys Phe Lys Lys
20 25 30

Lys Asp Met Trp Gly Ile Arg Leu Phe Glu Ser Ala Asn Thr Ala Lys
35 40 45

Asp Arg Arg Leu Gln Arg Gly Asn Arg Arg Arg Leu Glu Arg Lys Lys
50 55 60

Gln Arg Ile Asp Leu Leu Gln Glu Ile Phe Ser Pro Glu Ile Cys Lys
65 70 75 80

Ile Asp Pro Thr Phe Phe Ile Arg Leu Asn Glu Ser Arg Leu His Leu
85 90 95

Glu Asp Lys Ser Asn Asp Phe Lys Tyr Pro Leu Phe Ile Glu Lys Asp
100 105 110

Tyr Ser Asp Ile Glu Tyr Tyr Lys Glu Phe Pro Thr Ile Phe His Leu
115 120 125

Arg Lys His Leu Ile Glu Ser Glu Glu Lys Gln Asp Ile Arg Leu Ile
130 135 140

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

Asp Gly Asp Leu Gln Ser Ala Lys Gln Leu Arg Pro Ile Leu Asp Thr
165 170 175

Phe Leu Leu Ser Leu Gln Glu Glu Gln Asn Leu Ser Val Ser Leu Ser
180 185 190

Glu Asn Gln Lys Asp Glu Tyr Glu Glu Ile Leu Lys Asn Arg Ser Ile
195 200 205

Ala Lys Ser Glu Lys Val Lys Lys Leu Lys Asn Leu Phe Glu Ile Ser
210 215 220

Asp Glu Leu Glu Lys Glu Glu Lys Lys Ala Gln Ser Ala Val Ile Glu
225 230 235 240

Asn Phe Cys Lys Phe Ile Val Gly Asn Lys Gly Asp Val Cys Lys Phe

245 250 255

Leu Arg Val Ser Lys Glu Glu Leu Glu Ile Asp Ser Phe Ser Phe Ser
260 265 270

Glu Gly Lys Tyr Glu Asp Asp Ile Val Lys Asn Leu Glu Glu Lys Val
275 280 285

Pro Glu Lys Val Tyr Leu Phe Glu Gln Met Lys Ala Met Tyr Asp Trp
290 295 300

Asn Ile Leu Val Asp Ile Leu Glu Thr Glu Glu Tyr Ile Ser Phe Ala
305 310 315 320

Lys Val Lys Gln Tyr Glu Lys His Lys Thr Asn Leu Arg Leu Leu Arg
325 330 335

Asp Ile Ile Leu Lys Tyr Cys Thr Lys Asp Glu Tyr Asn Arg Met Phe
340 345 350

Asn Asp Glu Lys Glu Ala Gly Ser Tyr Thr Ala Tyr Val Gly Lys Leu
355 360 365

Lys Lys Asn Asn Lys Lys Tyr Trp Ile Glu Lys Lys Arg Asn Pro Glu
370 375 380

Glu Phe Tyr Lys Ser Leu Gly Lys Leu Leu Asp Lys Ile Glu Pro Leu
385 390 395 400

Lys Glu Asp Leu Glu Val Leu Thr Met Met Ile Glu Glu Cys Lys Asn
405 410 415

His Thr Leu Leu Pro Ile Gln Lys Asn Lys Asp Asn Gly Val Ile Pro
420 425 430

His Gln Val His Glu Val Glu Leu Lys Lys Ile Leu Glu Asn Ala Lys
435 440 445

Lys Tyr Tyr Ser Phe Leu Thr Glu Thr Asp Lys Asp Gly Tyr Ser Val
450 455 460

Val Gln Lys Ile Glu Ser Ile Phe Arg Phe Arg Ile Pro Tyr Tyr Val
465 470 475 480

Gly Pro Leu Ser Thr Arg His Gln Glu Lys Gly Ser Asn Val Trp Met
485 490 495

Val Arg Lys Pro Gly Arg Glu Asp Arg Ile Tyr Pro Trp Asn Met Glu
500 505 510

Glu Ile Ile Asp Phe Glu Lys Ser Asn Glu Asn Phe Ile Thr Arg Met

515 520 525

Thr Asn Lys Cys Thr Tyr Leu Ile Gly Glu Asp Val Leu Pro Lys His
530 535 540

Ser Leu Leu Tyr Ser Lys Tyr Met Val Leu Asn Glu Leu Asn Asn Val
545 550 555 560

Lys Val Arg Gly Lys Lys Leu Pro Thr Ser Leu Lys Gln Lys Val Phe
565 570 575

Glu Asp Leu Phe Glu Asn Lys Ser Lys Val Thr Gly Lys Asn Leu Leu
580 585 590

Glu Tyr Leu Gln Ile Gln Asp Lys Asp Ile Gln Ile Asp Asp Leu Ser
595 600 605

Gly Phe Asp Lys Asp Phe Lys Thr Ser Leu Lys Ser Tyr Leu Asp Phe
610 615 620

Lys Lys Gln Ile Phe Gly Glu Glu Ile Glu Lys Glu Ser Ile Gln Asn
625 630 635 640

Met Ile Glu Asp Ile Ile Lys Trp Ile Thr Ile Tyr Gly Asn Asp Lys
645 650 655

Glu Met Leu Lys Arg Val Ile Arg Ala Asn Tyr Ser Asn Gln Leu Thr
660 665 670

Glu Glu Gln Met Lys Lys Ile Thr Gly Phe Gln Tyr Ser Gly Trp Gly
675 680 685

Asn Phe Ser Lys Met Phe Leu Lys Gly Ile Ser Gly Ser Asp Val Ser
690 695 700

Thr Gly Glu Thr Phe Asp Ile Ile Thr Ala Met Trp Glu Thr Asp Asn
705 710 715 720

Asn Leu Met Gln Ile Leu Ser Lys Lys Phe Thr Phe Met Asp Asn Val
725 730 735

Glu Asp Phe Asn Ser Gly Lys Val Gly Lys Ile Asp Lys Ile Thr Tyr
740 745 750

Asp Ser Thr Val Lys Glu Met Phe Leu Ser Pro Glu Asn Lys Arg Ala
755 760 765

Val Trp Gln Thr Ile Gln Val Ala Glu Glu Ile Lys Lys Val Met Gly
770 775 780

Cys Glu Pro Lys Lys Ile Phe Ile Glu Met Ala Arg Gly Gly Glu Lys

785 790 795 800

Val Lys Lys Arg Thr Lys Ser Arg Lys Ala Gln Leu Leu Glu Leu Tyr
805 810 815

Ala Ala Cys Glu Glu Asp Cys Arg Glu Leu Ile Lys Glu Ile Glu Asp
820 825 830

Arg Asp Glu Arg Asp Phe Asn Ser Met Lys Leu Phe Leu Tyr Tyr Thr
835 840 845

Gln Phe Gly Lys Cys Met Tyr Ser Gly Asp Asp Ile Asp Ile Asn Glu
850 855 860

Leu Ile Arg Gly Asn Ser Lys Trp Asp Arg Asp His Ile Tyr Pro Gln
865 870 875 880

Ser Lys Ile Lys Asp Asp Ser Ile Asp Asn Leu Val Leu Val Asn Lys
885 890 895

Thr Tyr Asn Ala Lys Lys Ser Asn Glu Leu Leu Ser Glu Asp Ile Gln
900 905 910

Lys Lys Met His Ser Phe Trp Leu Ser Leu Leu Asn Lys Lys Leu Ile
915 920 925

Thr Lys Ser Lys Tyr Asp Arg Leu Thr Arg Lys Gly Asp Phe Thr Asp
930 935 940

Glu Glu Leu Ser Gly Phe Ile Ala Arg Gln Leu Val Glu Thr Arg Gln
945 950 955 960

Ser Thr Lys Ala Ile Ala Asp Ile Phe Lys Gln Ile Tyr Ser Ser Glu
965 970 975

Val Val Tyr Val Lys Ser Ser Leu Val Ser Asp Phe Arg Lys Lys Pro
980 985 990

Leu Asn Tyr Leu Lys Ser Arg Arg Val Asn Asp Tyr His His Ala Lys
995 1000 1005

Asp Ala Tyr Leu Asn Ile Val Val Gly Asn Val Tyr Asn Lys Lys
1010 1015 1020

Phe Thr Ser Asn Pro Ile Gln Trp Met Lys Lys Asn Arg Asp Thr
1025 1030 1035

Asn Tyr Ser Leu Asn Lys Val Phe Glu His Asp Val Val Ile Asn
1040 1045 1050

Gly Glu Val Ile Trp Glu Lys Cys Thr Tyr His Glu Asp Thr Asn

1055 1060 1065

Thr Tyr Asp Gly Gly Thr Leu Asp Arg Ile Arg Lys Ile Val Glu
1070 1075 1080

Arg Asp Asn Ile Leu Tyr Thr Glu Tyr Ala Tyr Cys Glu Lys Gly
1085 1090 1095

Glu Leu Phe Asn Ala Thr Ile Gln Asn Lys Asn Gly Asn Ser Thr
1100 1105 1110

Val Ser Leu Lys Lys Gly Leu Asp Val Lys Lys Tyr Gly Gly Tyr
1115 1120 1125

Phe Ser Ala Asn Thr Ser Tyr Phe Ser Leu Ile Glu Phe Glu Asp
1130 1135 1140

Lys Lys Gly Asp Arg Ala Arg His Ile Ile Gly Val Pro Ile Tyr
1145 1150 1155

Ile Ala Asn Met Leu Glu His Ser Pro Ser Ala Phe Leu Glu Tyr
1160 1165 1170

Cys Glu Gln Lys Gly Tyr Gln Asn Val Arg Ile Leu Val Glu Lys
1175 1180 1185

Ile Lys Lys Asn Ser Leu Leu Ile Ile Asn Gly Tyr Pro Leu Arg
1190 1195 1200

Ile Arg Gly Glu Asn Glu Val Asp Thr Ser Phe Lys Arg Ala Ile
1205 1210 1215

Gln Leu Lys Leu Asp Gln Lys Asn Tyr Glu Leu Val Arg Asn Ile
1220 1225 1230

Glu Lys Phe Leu Glu Lys Tyr Val Glu Lys Lys Gly Asn Tyr Pro
1235 1240 1245

Ile Asp Glu Asn Arg Asp His Ile Thr His Glu Lys Met Asn Gln
1250 1255 1260

Leu Tyr Glu Val Leu Leu Ser Lys Met Lys Lys Phe Asn Lys Lys
1265 1270 1275

Gly Met Ala Asp Pro Ser Asp Arg Ile Glu Lys Ser Lys Pro Lys
1280 1285 1290

Phe Ile Lys Leu Glu Asp Leu Ile Asp Lys Ile Asn Val Ile Asn
1295 1300 1305

Lys Met Leu Asn Leu Leu Arg Cys Asp Asn Asp Thr Lys Ala Asp

1310 1315 1320

Leu Ser Leu Ile Glu Leu Pro Lys Asn Ala Gly Ser Phe Val Val
1325 1330 1335

Lys Lys Asn Thr Ile Gly Lys Ser Lys Ile Ile Leu Val Asn Gln
1340 1345 1350

Ser Val Thr Gly Leu Tyr Glu Asn Arg Arg Glu Leu
1355 1360 1365

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Met Ala Arg Asp Tyr Ser Val Gly Leu Asp Ile Gly Thr Ser Ser Val
1 5 10 15

Gly Trp Ala Ala Ile Asp Asn Lys Tyr His Leu Ile Arg Ala Lys Ser
20 25 30

Lys Asn Leu Ile Gly Val Arg Leu Phe Asp Ser Ala Val Thr Ala Glu
35 40 45

Lys Arg Arg Gly Tyr Arg Thr Thr Arg Arg Arg Leu Ser Arg Arg His
50 55 60

Trp Arg Leu Arg Leu Leu Asn Asp Ile Phe Ala Gly Pro Leu Thr Asp
65 70 75 80

Phe Gly Asp Glu Asn Phe Leu Ala Arg Leu Lys Tyr Ser Trp Val His
85 90 95

Pro Gln Asp Gln Ser Asn Gln Ala His Phe Ala Ala Gly Leu Leu Phe
100 105 110

Asp Ser Lys Glu Gln Asp Lys Asp Phe Tyr Arg Lys Tyr Pro Thr Ile
115 120 125

Tyr His Leu Arg Leu Ala Leu Met Asn Asp Asp Gln Lys His Asp Leu
130 135 140

Arg Glu Val Tyr Leu Ala Ile His His Leu Val Lys Tyr Arg Gly His
145 150 155 160

Phe Leu Ile Glu Gly Asp Val Lys Ala Asp Ser Ala Phe Asp Val His
165 170 175

Thr Phe Ala Asp Ala Ile Gln Arg Tyr Ala Glu Ser Asn Asn Ser Asp
180 185 190

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Glu Asn Leu Leu Gly Lys Ile Asp Glu Lys Lys Leu Ser Ala Ala Leu
        195                 200                 205

Thr Asp Lys His Gly Ser Lys Ser Gln Arg Ala Glu Thr Ala Glu Thr
    210                 215                 220

Ala Phe Asp Ile Leu Asp Leu Gln Ser Lys Lys Gln Ile Gln Ala Ile
225                 230                 235                 240

Leu Lys Ser Val Val Gly Asn Gln Ala Asn Leu Met Ala Ile Phe Gly
                245                 250                 255

Leu Asp Ser Ser Ala Ile Ser Lys Asp Glu Gln Lys Asn Tyr Lys Phe
            260                 265                 270

Ser Phe Asp Asp Ala Asp Ile Asp Glu Lys Ile Ala Asp Ser Glu Ala
        275                 280                 285

Leu Leu Ser Asp Thr Glu Phe Glu Phe Leu Cys Asp Leu Lys Ala Ala
    290                 295                 300

Phe Asp Gly Leu Thr Leu Lys Met Leu Leu Gly Asp Asp Lys Thr Val
305                 310                 315                 320

Ser Ala Ala Met Val Arg Arg Phe Asn Glu His Gln Lys Asp Trp Glu
                325                 330                 335

Tyr Ile Lys Ser His Ile Arg Asn Ala Lys Asn Ala Gly Asn Gly Leu
            340                 345                 350

Tyr Glu Lys Ser Lys Lys Phe Asp Gly Ile Asn Ala Ala Tyr Leu Ala
        355                 360                 365

Leu Gln Ser Asp Asn Glu Asp Asp Arg Lys Lys Ala Lys Lys Ile Phe
    370                 375                 380

Gln Asp Glu Ile Ser Ser Ala Asp Ile Pro Asp Asp Val Lys Ala Asp
385                 390                 395                 400

Phe Leu Lys Lys Ile Asp Asp Asp Gln Phe Leu Pro Ile Gln Arg Thr
                405                 410                 415

Lys Asn Asn Gly Thr Ile Pro His Gln Leu His Arg Asn Glu Leu Glu
            420                 425                 430

Gln Ile Ile Glu Lys Gln Gly Ile Tyr Tyr Pro Phe Leu Lys Asp Thr
        435                 440                 445

Tyr Gln Glu Asn Ser His Glu Leu Asn Lys Ile Thr Ala Leu Ile Asn
    450                 455                 460
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Phe Arg Val Pro Tyr Tyr Val Gly Pro Leu Val Glu Glu Glu Gln Lys
465                 470                 475                 480

Ile Ala Asp Asp Gly Lys Asn Ile Pro Asp Pro Thr Asn His Trp Met
                485                 490                 495

Val Arg Lys Ser Asn Asp Thr Ile Thr Pro Trp Asn Leu Ser Gln Val
            500                 505                 510

Val Asp Leu Asp Lys Ser Gly Arg Arg Phe Ile Glu Arg Leu Thr Gly
        515                 520                 525

Thr Asp Thr Tyr Leu Ile Gly Glu Pro Thr Leu Pro Lys Asn Ser Leu
    530                 535                 540

Leu Tyr Gln Lys Phe Asp Val Leu Gln Glu Leu Asn Asn Ile Arg Val
545                 550                 555                 560

Ser Gly Arg Arg Leu Asp Ile Arg Ala Lys Gln Asp Ala Phe Glu His
                565                 570                 575

Leu Phe Lys Val Gln Lys Thr Val Ser Ala Thr Asn Leu Lys Asp Phe
            580                 585                 590

Leu Val Gln Ala Gly Tyr Ile Ser Glu Asp Thr Gln Ile Glu Gly Leu
        595                 600                 605

Ala Asp Val Asn Gly Lys Asn Phe Asn Asn Ala Leu Thr Thr Tyr Asn
    610                 615                 620

Tyr Leu Val Ser Val Leu Gly Arg Glu Phe Val Glu Asn Pro Ser Asn
625                 630                 635                 640

Glu Glu Leu Leu Glu Glu Ile Thr Glu Leu Gln Thr Val Phe Glu Asp
                645                 650                 655

Lys Lys Val Leu Arg Arg Gln Leu Asp Gln Leu Asp Gly Leu Ser Asp
            660                 665                 670

His Asn Arg Glu Lys Leu Ser Arg Lys His Tyr Thr Gly Trp Gly Arg
        675                 680                 685

Ile Ser Lys Lys Leu Leu Thr Thr Lys Ile Val Gln Asn Ala Asp Lys
    690                 695                 700

Ile Asp Asn Gln Thr Phe Asp Val Pro Arg Met Asn Gln Ser Ile Ile
705                 710                 715                 720

Asp Thr Leu Tyr Asn Thr Lys Met Asn Leu Met Glu Ile Ile Asn Asn
                725                 730                 735
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Ala Glu Asp Asp Phe Gly Val Arg Ala Trp Ile Asp Lys Gln Asn Thr
            740                 745                 750

Thr Asp Gly Asp Glu Gln Asp Val Tyr Ser Leu Ile Asp Glu Leu Ala
        755                 760                 765

Gly Pro Lys Glu Ile Lys Arg Gly Ile Val Gln Ser Phe Arg Ile Leu
    770                 775                 780

Asp Asp Ile Thr Lys Ala Val Gly Tyr Ala Pro Lys Arg Val Tyr Leu
785                 790                 795                 800

Glu Phe Ala Arg Lys Thr Gln Glu Ser His Leu Thr Asn Ser Arg Lys
                805                 810                 815

Asn Gln Leu Ser Thr Leu Leu Lys Asn Ala Gly Leu Ser Glu Leu Val
            820                 825                 830

Thr Gln Val Ser Gln Tyr Asp Ala Ala Ala Leu Gln Asn Asp Arg Leu
        835                 840                 845

Tyr Leu Tyr Phe Leu Gln Gln Gly Lys Asp Met Tyr Ser Gly Glu Lys
    850                 855                 860

Leu Asn Leu Asp Asn Leu Ser Asn Tyr Asp Ile Asp His Ile Ile Pro
865                 870                 875                 880

Gln Ala Tyr Thr Lys Asp Asn Ser Leu Asp Asn Arg Val Leu Val Ser
                885                 890                 895

Asn Ile Thr Asn Arg Arg Lys Ser Asp Ser Ser Asn Tyr Leu Pro Ala
            900                 905                 910

Leu Ile Asp Lys Met Arg Pro Phe Trp Ser Val Leu Ser Lys Gln Gly
        915                 920                 925

Leu Leu Ser Lys His Lys Phe Ala Asn Leu Thr Arg Thr Arg Asp Phe
    930                 935                 940

Asp Asp Met Glu Lys Glu Arg Phe Ile Ala Arg Ser Leu Val Glu Thr
945                 950                 955                 960

Arg Gln Ile Ile Lys Asn Val Ala Ser Leu Ile Asp Ser His Phe Gly
                965                 970                 975

Gly Glu Thr Lys Ala Val Ala Ile Arg Ser Ser Leu Thr Ala Asp Met
            980                 985                 990

Arg Arg Tyr Val Asp Ile Pro Lys  Asn Arg Asp Ile Asn  Asp Tyr His
        995                 1000                1005
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His Ala  Phe Asp Ala Leu Leu  Phe Ser Thr Val Gly  Gln Tyr Thr
    1010                1015                1020

Glu Asn  Ser Gly Leu Met Lys  Lys Gly Gln Leu Ser  Asp Ser Ala
    1025                1030                1035

Gly Asn  Gln Tyr Asn Arg Tyr  Ile Lys Glu Trp Ile  His Ala Ala
    1040                1045                1050

Arg Leu  Asn Ala Gln Ser Gln  Arg Val Asn Pro Phe  Gly Phe Val
    1055                1060                1065

Val Gly  Ser Met Arg Asn Ala  Ala Pro Gly Lys Leu  Asn Pro Glu
    1070                1075                1080

Thr Gly  Glu Ile Thr Pro Glu  Glu Asn Ala Asp Trp  Ser Ile Ala
    1085                1090                1095

Asp Leu  Asp Tyr Leu His Lys  Val Met Asn Phe Arg  Lys Ile Thr
    1100                1105                1110

Val Thr  Arg Arg Leu Lys Asp  Gln Lys Gly Gln Leu  Tyr Asp Glu
    1115                1120                1125

Ser Arg  Tyr Pro Ser Val Leu  His Asp Ala Lys Ser  Lys Ala Ser
    1130                1135                1140

Ile Asn  Phe Asp Lys His Lys  Pro Val Asp Leu Tyr  Gly Gly Phe
    1145                1150                1155

Ser Ser  Ala Lys Pro Ala Tyr  Ala Ala Leu Ile Lys  Phe Lys Asn
    1160                1165                1170

Lys Phe  Arg Leu Val Asn Val  Leu Arg Gln Trp Thr  Tyr Ser Asp
    1175                1180                1185

Lys Asn  Ser Glu Asp Tyr Ile  Leu Glu Gln Ile Arg  Gly Lys Tyr
    1190                1195                1200

Pro Lys  Ala Glu Met Val Leu  Ser His Ile Pro Tyr  Gly Gln Leu
    1205                1210                1215

Val Lys  Lys Asp Gly Ala Leu  Val Thr Ile Ser Ser  Ala Thr Glu
    1220                1225                1230

Leu His  Asn Phe Glu Gln Leu  Trp Leu Pro Leu Ala  Asp Tyr Lys
    1235                1240                1245

Leu Ile  Asn Thr Leu Leu Lys  Thr Lys Glu Asp Asn  Leu Val Asp
    1250                1255                1260
```

Ile Leu His Asn Arg Leu Asp Leu Pro Glu Met Thr Ile Glu Ser
1265 1270 1275

Ala Phe Tyr Lys Ala Phe Asp Ser Ile Leu Ser Phe Ala Phe Asn
1280 1285 1290

Arg Tyr Ala Leu His Gln Asn Ala Leu Val Lys Leu Gln Ala His
1295 1300 1305

Arg Asp Asp Phe Asn Ala Leu Asn Tyr Glu Asp Lys Gln Gln Thr
1310 1315 1320

Leu Glu Arg Ile Leu Asp Ala Leu His Ala Ser Pro Ala Ser Ser
1325 1330 1335

Asp Leu Lys Lys Ile Asn Leu Ser Ser Gly Phe Gly Arg Leu Phe
1340 1345 1350

Ser Pro Ser His Phe Thr Leu Ala Asp Thr Asp Glu Phe Ile Phe
1355 1360 1365

Gln Ser Val Thr Gly Leu Phe Ser Thr Gln Lys Thr Val Ala Gln
1370 1375 1380

Leu Tyr Gln Glu Thr Lys
1385

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<211> 1323
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<400> 313

Met Val Tyr Asp Val Gly Leu Asp Ile Gly Thr Gly Ser Val Gly Trp
1 5 10 15

Val Ala Leu Asp Glu Asn Gly Lys Leu Ala Arg Ala Lys Gly Lys Asn
20 25 30

Leu Val Gly Val Arg Leu Phe Asp Thr Ala Gln Thr Ala Ala Asp Arg
35 40 45

Arg Gly Phe Arg Thr Thr Arg Arg Arg Leu Ser Arg Arg Lys Trp Arg
50 55 60

Leu Arg Leu Leu Asp Glu Leu Phe Ser Ala Glu Ile Asn Glu Ile Asp
65 70 75 80

Ser Ser Phe Phe Gln Arg Leu Lys Tyr Ser Tyr Val His Pro Lys Asp
85 90 95

```
Glu Glu Asn Lys Ala His Tyr Tyr Gly Gly Tyr Leu Phe Pro Thr Glu
            100                 105                 110

Glu Glu Thr Lys Lys Phe His Arg Ser Tyr Pro Thr Ile Tyr His Leu
        115                 120                 125

Arg Gln Glu Leu Met Ala Gln Pro Asn Lys Arg Phe Asp Ile Arg Glu
    130                 135                 140

Ile Tyr Leu Ala Ile His His Leu Val Lys Tyr Arg Gly His Phe Leu
145                 150                 155                 160

Ser Ser Gln Glu Lys Ile Thr Ile Gly Ser Thr Tyr Asn Pro Glu Asp
                165                 170                 175

Leu Ala Asn Ala Ile Glu Val Tyr Ala Asp Glu Lys Gly Leu Ser Trp
            180                 185                 190

Glu Leu Asn Asn Pro Glu Gln Leu Thr Glu Ile Ile Ser Gly Glu Ala
        195                 200                 205

Gly Tyr Gly Leu Asn Lys Ser Met Lys Ala Asp Glu Ala Leu Lys Leu
    210                 215                 220

Phe Glu Phe Asp Asn Asn Gln Asp Lys Val Ala Ile Lys Thr Leu Leu
225                 230                 235                 240

Ala Gly Leu Thr Gly Asn Gln Ile Asp Phe Ala Lys Leu Phe Gly Lys
                245                 250                 255

Asp Ile Ser Asp Lys Asp Glu Ala Lys Leu Trp Lys Leu Lys Leu Asp
            260                 265                 270

Asp Glu Ala Leu Glu Glu Lys Ser Gln Thr Ile Leu Ser Gln Leu Thr
        275                 280                 285

Asp Glu Glu Ile Glu Leu Phe His Ala Val Val Gln Ala Tyr Asp Gly
    290                 295                 300

Phe Val Leu Ile Gly Leu Leu Asn Gly Ala Asp Ser Val Ser Ala Ala
305                 310                 315                 320

Met Val Gln Leu Tyr Asp Gln His Arg Glu Asp Arg Lys Leu Leu Lys
                325                 330                 335

Ser Leu Ala Gln Lys Ala Gly Leu Lys His Lys Arg Phe Ser Glu Ile
            340                 345                 350

Tyr Glu Gln Leu Ala Leu Ala Thr Asp Glu Ala Thr Ile Lys Asn Gly
        355                 360                 365
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Ile Ser Thr Ala Arg Glu Leu Val Glu Glu Ser Asn Leu Ser Lys Glu
    370                 375                 380

Val Lys Glu Asp Thr Leu Arg Arg Leu Asp Glu Asn Glu Phe Leu Pro
385                 390                 395                 400

Lys Gln Arg Thr Lys Ala Asn Ser Val Ile Pro His Gln Leu His Leu
                405                 410                 415

Ala Glu Leu Gln Lys Ile Leu Gln Asn Gln Gly Gln Tyr Tyr Pro Phe
            420                 425                 430

Leu Leu Asp Thr Phe Glu Lys Glu Asp Gly Gln Asp Asn Lys Ile Glu
        435                 440                 445

Glu Leu Leu Arg Phe Arg Ile Pro Tyr Tyr Val Gly Pro Leu Val Thr
    450                 455                 460

Lys Lys Asp Val Glu His Ala Gly Gly Asp Ala Asp Asn His Trp Val
465                 470                 475                 480

Glu Arg Asn Glu Gly Phe Glu Lys Ser Arg Val Thr Pro Trp Asn Phe
                485                 490                 495

Asp Lys Val Phe Asn Arg Asp Lys Ala Ala Arg Asp Phe Ile Glu Arg
            500                 505                 510

Leu Thr Gly Asn Asp Thr Tyr Leu Ile Gly Glu Lys Thr Leu Pro Gln
        515                 520                 525

Asn Ser Leu Arg Tyr Gln Leu Phe Thr Val Leu Asn Glu Leu Asn Asn
    530                 535                 540

Val Arg Val Asn Gly Lys Lys Phe Asp Ser Lys Thr Lys Ala Asp Leu
545                 550                 555                 560

Ile Asn Asp Leu Phe Lys Ala Arg Lys Thr Val Ser Leu Ser Ala Leu
                565                 570                 575

Lys Asp Tyr Leu Lys Ala Gln Gly Lys Gly Asp Val Thr Ile Thr Gly
            580                 585                 590

Leu Ala Asp Glu Ser Lys Phe Asn Ser Ser Leu Ser Ser Tyr Asn Asp
        595                 600                 605

Leu Lys Lys Thr Phe Asp Ala Glu Tyr Leu Glu Asn Glu Asp Asn Gln
    610                 615                 620

Glu Thr Leu Glu Lys Ile Ile Glu Ile Gln Thr Val Phe Glu Asp Ser
625                 630                 635                 640
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Lys Ile Ala Ser Arg Glu Leu Ser Lys Leu Pro Leu Asp Asp Asp Gln
                645                 650                 655

Val Lys Lys Leu Ser Gln Thr His Tyr Thr Gly Trp Gly Arg Leu Ser
            660                 665                 670

Glu Lys Leu Leu Asp Ser Lys Ile Ile Asp Glu Arg Gly Gln Lys Val
        675                 680                 685

Ser Ile Leu Asp Lys Leu Lys Ser Thr Ser Gln Asn Phe Met Ser Ile
    690                 695                 700

Ile Asn Asn Asp Lys Tyr Gly Val Gln Ala Trp Ile Thr Glu Gln Asn
705                 710                 715                 720

Thr Gly Ser Ser Lys Leu Thr Phe Asp Glu Lys Val Asn Glu Leu Thr
                725                 730                 735

Thr Ser Pro Ala Asn Lys Arg Gly Ile Lys Gln Ser Phe Ala Val Leu
            740                 745                 750

Asn Asp Ile Lys Lys Ala Met Lys Glu Glu Pro Arg Arg Val Tyr Leu
        755                 760                 765

Glu Phe Ala Arg Glu Asp Gln Thr Ser Val Arg Ser Val Pro Arg Tyr
    770                 775                 780

Asn Gln Leu Lys Glu Lys Tyr Gln Ser Lys Ser Leu Ser Glu Glu Ala
785                 790                 795                 800

Lys Val Leu Lys Lys Thr Leu Asp Gly Asn Lys Asn Lys Met Ser Asp
                805                 810                 815

Asp Arg Tyr Phe Leu Tyr Phe Gln Gln Gln Gly Lys Asp Met Tyr Thr
            820                 825                 830

Gly Arg Pro Ile Asn Phe Glu Arg Leu Ser Gln Asp Tyr Asp Ile Asp
        835                 840                 845

His Ile Ile Pro Gln Ala Phe Thr Lys Asp Asp Ser Leu Asp Asn Arg
    850                 855                 860

Val Leu Val Ser Arg Pro Glu Asn Ala Arg Lys Ser Asp Ser Phe Ala
865                 870                 875                 880

Tyr Thr Asp Glu Val Gln Lys Gln Asp Gly Ser Leu Trp Thr Ser Leu
                885                 890                 895

Leu Lys Ser Gly Phe Ile Asn Arg Lys Lys Tyr Glu Arg Leu Thr Lys
            900                 905                 910
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Ala Gly Lys Tyr Leu Asp Gly Gln Lys Thr Gly Phe Ile Ala Arg Gln
        915                 920                 925

Leu Val Glu Thr Arg Gln Ile Ile Lys Asn Val Ala Ser Leu Ile Glu
    930                 935                 940

Gly Glu Tyr Glu Asn Ser Lys Ala Val Ala Ile Arg Ser Glu Ile Thr
945                 950                 955                 960

Ala Asp Met Arg Leu Leu Val Gly Ile Lys Lys His Arg Glu Ile Asn
                965                 970                 975

Ser Phe His His Ala Phe Asp Ala Leu Leu Ile Thr Ala Ala Gly Gln
            980                 985                 990

Tyr Met Gln Asn Arg Tyr Pro Asp  Arg Asp Ser Thr Asn  Val Tyr Asn
        995                 1000                1005

Glu Phe  Asp Arg Tyr Thr Asn  Asp Tyr Leu Lys Asn  Leu Arg Gln
    1010                1015                1020

Leu Ser  Ser Arg Asp Glu Val  Arg Arg Leu Lys Ser  Phe Gly Phe
    1025                1030                1035

Val Val  Gly Thr Met Arg Lys  Gly Asn Glu Asp Trp  Ser Glu Glu
    1040                1045                1050

Asn Thr  Ser Tyr Leu Arg Lys  Val Met Met Phe Lys  Asn Ile Leu
    1055                1060                1065

Thr Thr  Lys Lys Thr Glu Lys  Asp Arg Gly Pro Leu  Asn Lys Glu
    1070                1075                1080

Thr Ile  Phe Ser Pro Lys Ser  Gly Lys Lys Leu Ile  Pro Leu Asn
    1085                1090                1095

Ser Lys  Arg Ser Asp Thr Ala  Leu Tyr Gly Gly Tyr  Ser Asn Val
    1100                1105                1110

Tyr Ser  Ala Tyr Met Thr Leu  Val Arg Ala Asn Gly  Lys Asn Leu
    1115                1120                1125

Leu Ile  Lys Ile Pro Ile Ser  Ile Ala Asn Gln Ile  Glu Val Gly
    1130                1135                1140

Asn Leu  Lys Ile Asn Asp Tyr  Ile Val Asn Asn Pro  Ala Ile Lys
    1145                1150                1155

Lys Phe  Glu Lys Ile Leu Ile  Ser Lys Leu Pro Leu  Gly Gln Leu
    1160                1165                1170
```

Val Asn Glu Asp Gly Asn Leu Ile Tyr Leu Ala Ser Asn Glu Tyr
1175 1180 1185

Arg His Asn Ala Lys Gln Leu Trp Leu Ser Thr Thr Asp Ala Asp
1190 1195 1200

Lys Ile Ala Ser Ile Ser Glu Asn Ser Ser Asp Glu Glu Leu Leu
1205 1210 1215

Glu Ala Tyr Asp Ile Leu Thr Ser Glu Asn Val Lys Asn Arg Phe
1220 1225 1230

Pro Phe Phe Lys Lys Asp Ile Asp Lys Leu Ser Gln Val Arg Asp
1235 1240 1245

Glu Phe Leu Asp Ser Asp Lys Arg Ile Ala Val Ile Gln Thr Ile
1250 1255 1260

Leu Arg Gly Leu Gln Ile Asp Ala Ala Tyr Gln Ala Pro Val Lys
1265 1270 1275

Ile Ile Ser Lys Lys Val Ser Asp Trp His Lys Leu Gln Gln Ser
1280 1285 1290

Gly Gly Ile Lys Leu Ser Asp Asn Ser Glu Met Ile Tyr Gln Ser
1295 1300 1305

Ala Thr Gly Ile Phe Glu Thr Arg Val Lys Ile Ser Asp Leu Leu
1310 1315 1320

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<213> Catenibacterium mitsuokai

<400> 314

Ile Val Asp Tyr Cys Ile Gly Leu Asp Leu Gly Thr Gly Ser Val Gly
1 5 10 15

Trp Ala Val Val Asp Met Asn His Arg Leu Met Lys Arg Asn Gly Lys
20 25 30

His Leu Trp Gly Ser Arg Leu Phe Ser Asn Ala Glu Thr Ala Ala Asn
35 40 45

Arg Arg Ala Ser Arg Ser Ile Arg Arg Arg Tyr Asn Lys Arg Arg Glu
50 55 60

Arg Ile Arg Leu Leu Arg Ala Ile Leu Gln Asp Met Val Leu Glu Lys
65 70 75 80

```
Asp Pro Thr Phe Phe Ile Arg Leu Glu His Thr Ser Phe Leu Asp Glu
                85                  90                  95

Glu Asp Lys Ala Lys Tyr Leu Gly Thr Asp Tyr Lys Asp Asn Tyr Asn
            100                 105                 110

Leu Phe Ile Asp Glu Asp Phe Asn Asp Tyr Thr Tyr Tyr His Lys Tyr
        115                 120                 125

Pro Thr Ile Tyr His Leu Arg Lys Ala Leu Cys Glu Ser Thr Glu Lys
    130                 135                 140

Ala Asp Pro Arg Leu Ile Tyr Leu Ala Leu His His Ile Val Lys Tyr
145                 150                 155                 160

Arg Gly Asn Phe Leu Tyr Glu Gly Gln Lys Phe Asn Met Asp Ala Ser
                165                 170                 175

Asn Ile Glu Asp Lys Leu Ser Asp Ile Phe Thr Gln Phe Thr Ser Phe
            180                 185                 190

Asn Asn Ile Pro Tyr Glu Asp Asp Glu Lys Lys Asn Leu Glu Ile Leu
        195                 200                 205

Glu Ile Leu Lys Lys Pro Leu Ser Lys Lys Ala Lys Val Asp Glu Val
    210                 215                 220

Met Thr Leu Ile Ala Pro Glu Lys Asp Tyr Lys Ser Ala Phe Lys Glu
225                 230                 235                 240

Leu Val Thr Gly Ile Ala Gly Asn Lys Met Asn Val Thr Lys Met Ile
                245                 250                 255

Leu Cys Glu Pro Ile Lys Gln Gly Asp Ser Glu Ile Lys Leu Lys Phe
            260                 265                 270

Ser Asp Ser Asn Tyr Asp Asp Gln Phe Ser Glu Val Glu Lys Asp Leu
        275                 280                 285

Gly Glu Tyr Val Glu Phe Val Asp Ala Leu His Asn Val Tyr Ser Trp
    290                 295                 300

Val Glu Leu Gln Thr Ile Met Gly Ala Thr His Thr Asp Asn Ala Ser
305                 310                 315                 320

Ile Ser Glu Ala Met Val Ser Arg Tyr Asn Lys His His Asp Asp Leu
                325                 330                 335

Lys Leu Leu Lys Asp Cys Ile Lys Asn Asn Val Pro Asn Lys Tyr Phe
            340                 345                 350
```

```
Asp Met Phe Arg Asn Asp Ser Glu Lys Ser Lys Gly Tyr Tyr Asn Tyr
        355                 360                 365

Ile Asn Arg Pro Ser Lys Ala Pro Val Asp Glu Phe Tyr Lys Tyr Val
    370                 375                 380

Lys Lys Cys Ile Glu Lys Val Asp Thr Pro Glu Ala Lys Gln Ile Leu
385                 390                 395                 400

Asn Asp Ile Glu Leu Glu Asn Phe Leu Leu Lys Gln Asn Ser Arg Thr
                405                 410                 415

Asn Gly Ser Val Pro Tyr Gln Met Gln Leu Asp Glu Met Ile Lys Ile
            420                 425                 430

Ile Asp Asn Gln Ala Glu Tyr Tyr Pro Ile Leu Lys Glu Lys Arg Glu
        435                 440                 445

Gln Leu Leu Ser Ile Leu Thr Phe Arg Ile Pro Tyr Tyr Phe Gly Pro
    450                 455                 460

Leu Asn Glu Thr Ser Glu His Ala Trp Ile Lys Arg Leu Glu Gly Lys
465                 470                 475                 480

Glu Asn Gln Arg Ile Leu Pro Trp Asn Tyr Gln Asp Ile Val Asp Val
                485                 490                 495

Asp Ala Thr Ala Glu Gly Phe Ile Lys Arg Met Arg Ser Tyr Cys Thr
            500                 505                 510

Tyr Phe Pro Asp Glu Glu Val Leu Pro Lys Asn Ser Leu Ile Val Ser
        515                 520                 525

Lys Tyr Glu Val Tyr Asn Glu Leu Asn Lys Ile Arg Val Asp Asp Lys
    530                 535                 540

Leu Leu Glu Val Asp Val Lys Asn Asp Ile Tyr Asn Glu Leu Phe Met
545                 550                 555                 560

Lys Asn Lys Thr Val Thr Glu Lys Lys Leu Lys Asn Trp Leu Val Asn
                565                 570                 575

Asn Gln Cys Cys Ser Lys Asp Ala Glu Ile Lys Gly Phe Gln Lys Glu
            580                 585                 590

Asn Gln Phe Ser Thr Ser Leu Thr Pro Trp Ile Asp Phe Thr Asn Ile
        595                 600                 605

Phe Gly Lys Ile Asp Gln Ser Asn Phe Asp Leu Ile Glu Asn Ile Ile
    610                 615                 620
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```
Tyr Asp Leu Thr Val Phe Glu Asp Lys Lys Ile Met Lys Arg Arg Leu
625                 630                 635                 640

Lys Lys Lys Tyr Ala Leu Pro Asp Asp Lys Val Lys Gln Ile Leu Lys
                645                 650                 655

Leu Lys Tyr Lys Asp Trp Ser Arg Leu Ser Lys Lys Leu Leu Asp Gly
            660                 665                 670

Ile Val Ala Asp Asn Arg Phe Gly Ser Ser Val Thr Val Leu Asp Val
        675                 680                 685

Leu Glu Met Ser Arg Leu Asn Leu Met Glu Ile Ile Asn Asp Lys Asp
    690                 695                 700

Leu Gly Tyr Ala Gln Met Ile Glu Glu Ala Thr Ser Cys Pro Glu Asp
705                 710                 715                 720

Gly Lys Phe Thr Tyr Glu Glu Val Glu Arg Leu Ala Gly Ser Pro Ala
                725                 730                 735

Leu Lys Arg Gly Ile Trp Gln Ser Leu Gln Ile Val Glu Glu Ile Thr
            740                 745                 750

Lys Val Met Lys Cys Arg Pro Lys Tyr Ile Tyr Ile Glu Phe Glu Arg
        755                 760                 765

Ser Glu Glu Ala Lys Glu Arg Thr Glu Ser Lys Ile Lys Lys Leu Glu
    770                 775                 780

Asn Val Tyr Lys Asp Leu Asp Glu Gln Thr Lys Lys Glu Tyr Lys Ser
785                 790                 795                 800

Val Leu Glu Glu Leu Lys Gly Phe Asp Asn Thr Lys Lys Ile Ser Ser
                805                 810                 815

Asp Ser Leu Phe Leu Tyr Phe Thr Gln Leu Gly Lys Cys Met Tyr Ser
            820                 825                 830

Gly Lys Lys Leu Asp Ile Asp Ser Leu Asp Lys Tyr Gln Ile Asp His
        835                 840                 845

Ile Val Pro Gln Ser Leu Val Lys Asp Asp Ser Phe Asp Asn Arg Val
    850                 855                 860

Leu Val Val Pro Ser Glu Asn Gln Arg Lys Leu Asp Asp Leu Val Val
865                 870                 875                 880

Pro Phe Asp Ile Arg Asp Lys Met Tyr Arg Phe Trp Lys Leu Leu Phe
                885                 890                 895
```

```
Asp His Glu Leu Ile Ser Pro Lys Lys Phe Tyr Ser Leu Ile Lys Thr
            900                 905                 910

Glu Tyr Thr Glu Arg Asp Glu Glu Arg Phe Ile Asn Arg Gln Leu Val
        915                 920                 925

Glu Thr Arg Gln Ile Thr Lys Asn Val Thr Gln Ile Ile Glu Asp His
    930                 935                 940

Tyr Ser Thr Thr Lys Val Ala Ala Ile Arg Ala Asn Leu Ser His Glu
945                 950                 955                 960

Phe Arg Val Lys Asn His Ile Tyr Lys Asn Arg Asp Ile Asn Asp Tyr
                965                 970                 975

His His Ala His Asp Ala Tyr Ile Val Ala Leu Ile Gly Gly Phe Met
            980                 985                 990

Arg Asp Arg Tyr Pro Asn Met His  Asp Ser Lys Ala Val  Tyr Ser Glu
        995                 1000                1005

Tyr Met  Lys Met Phe Arg Lys  Asn Lys Asn Asp Gln  Lys Arg Trp
    1010                1015                1020

Lys Asp  Gly Phe Val Ile Asn  Ser Met Asn Tyr Pro  Tyr Glu Val
    1025                1030                1035

Asp Gly  Lys Leu Ile Trp Asn  Pro Asp Leu Ile Asn  Glu Ile Lys
    1040                1045                1050

Lys Cys  Phe Tyr Tyr Lys Asp  Cys Tyr Cys Thr Thr  Lys Leu Asp
    1055                1060                1065

Gln Lys  Ser Gly Gln Leu Phe  Asn Leu Thr Val Leu  Ser Asn Asp
    1070                1075                1080

Ala His  Ala Asp Lys Gly Val  Thr Lys Ala Val Val  Pro Val Asn
    1085                1090                1095

Lys Asn  Arg Ser Asp Val His  Lys Tyr Gly Gly Phe  Ser Gly Leu
    1100                1105                1110

Gln Tyr  Thr Ile Val Ala Ile  Glu Gly Gln Lys Lys  Lys Gly Lys
    1115                1120                1125

Lys Thr  Glu Leu Val Lys Lys  Ile Ser Gly Val Pro  Leu His Leu
    1130                1135                1140

Lys Ala  Ala Ser Ile Asn Glu  Lys Ile Asn Tyr Ile  Glu Glu Lys
    1145                1150                1155
```

Glu Gly Leu Ser Asp Val Arg Ile Ile Lys Asp Asn Ile Pro Val
1160 1165 1170

Asn Gln Met Ile Glu Met Asp Gly Gly Glu Tyr Leu Leu Thr Ser
1175 1180 1185

Pro Thr Glu Tyr Val Asn Ala Arg Gln Leu Val Leu Asn Glu Lys
1190 1195 1200

Gln Cys Ala Leu Ile Ala Asp Ile Tyr Asn Ala Ile Tyr Lys Gln
1205 1210 1215

Asp Tyr Asp Asn Leu Asp Asp Ile Leu Met Ile Gln Leu Tyr Ile
1220 1225 1230

Glu Leu Thr Asn Lys Met Lys Val Leu Tyr Pro Ala Tyr Arg Gly
1235 1240 1245

Ile Ala Glu Lys Phe Glu Ser Met Asn Glu Asn Tyr Val Val Ile
1250 1255 1260

Ser Lys Glu Glu Lys Ala Asn Ile Ile Lys Gln Met Leu Ile Val
1265 1270 1275

Met His Arg Gly Pro Gln Asn Gly Asn Ile Val Tyr Asp Asp Phe
1280 1285 1290

Lys Ile Ser Asp Arg Ile Gly Arg Leu Lys Thr Lys Asn His Asn
1295 1300 1305

Leu Asn Asn Ile Val Phe Ile Ser Gln Ser Pro Thr Gly Ile Tyr
1310 1315 1320

Thr Lys Lys Tyr Lys Leu
1325

<210> 315
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<212> PRT
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<400> 315

Met Lys Ser Glu Lys Lys Tyr Tyr Ile Gly Leu Asp Val Gly Thr Asn
1 5 10 15

Ser Val Gly Trp Ala Val Thr Asp Glu Phe Tyr Asn Ile Leu Arg Ala
20 25 30

Lys Gly Lys Asp Leu Trp Gly Val Arg Leu Phe Glu Lys Ala Asp Thr
35 40 45

Ala Ala Asn Thr Arg Ile Phe Arg Ser Gly Arg Arg Arg Asn Asp Arg

50 55 60

Lys Gly Met Arg Leu Gln Ile Leu Arg Glu Ile Phe Glu Asp Glu Ile
65 70 75 80

Lys Lys Val Asp Lys Asp Phe Tyr Asp Arg Leu Asp Glu Ser Lys Phe
85 90 95

Trp Ala Glu Asp Lys Lys Val Ser Gly Lys Tyr Ser Leu Phe Asn Asp
100 105 110

Lys Asn Phe Ser Asp Lys Gln Tyr Phe Glu Lys Phe Pro Thr Ile Phe
115 120 125

His Leu Arg Lys Tyr Leu Met Glu Glu His Gly Lys Val Asp Ile Arg
130 135 140

Tyr Tyr Phe Leu Ala Ile Asn Gln Met Met Lys Arg Arg Gly His Phe
145 150 155 160

Leu Ile Asp Gly Gln Ile Ser His Val Thr Asp Asp Lys Pro Leu Lys
165 170 175

Glu Gln Leu Ile Leu Leu Ile Asn Asp Leu Leu Lys Ile Glu Leu Glu
180 185 190

Glu Glu Leu Met Asp Ser Ile Phe Glu Ile Leu Ala Asp Val Asn Glu
195 200 205

Lys Arg Thr Asp Lys Lys Asn Asn Leu Lys Glu Leu Ile Lys Gly Gln
210 215 220

Asp Phe Asn Lys Gln Glu Gly Asn Ile Leu Asn Ser Ile Phe Glu Ser
225 230 235 240

Ile Val Thr Gly Lys Ala Lys Ile Lys Asn Ile Ile Ser Asp Glu Asp
245 250 255

Ile Leu Glu Lys Ile Lys Glu Asp Asn Lys Glu Asp Phe Val Leu Thr
260 265 270

Gly Asp Ser Tyr Glu Glu Asn Leu Gln Tyr Phe Glu Glu Val Leu Gln
275 280 285

Glu Asn Ile Thr Leu Phe Asn Thr Leu Lys Ser Thr Tyr Asp Phe Leu
290 295 300

Ile Leu Gln Ser Ile Leu Lys Gly Lys Ser Thr Leu Ser Asp Ala Gln
305 310 315 320

Val Glu Arg Tyr Asp Glu His Lys Lys Asp Leu Glu Ile Leu Lys Lys

325 330 335

Val Ile Lys Lys Tyr Asp Glu Asp Gly Lys Leu Phe Lys Gln Val Phe
340 345 350

Lys Glu Asp Asn Gly Asn Gly Tyr Val Ser Tyr Ile Gly Tyr Tyr Leu
355 360 365

Asn Lys Asn Lys Lys Ile Thr Ala Lys Lys Lys Ile Ser Asn Ile Glu
370 375 380

Phe Thr Lys Tyr Val Lys Gly Ile Leu Glu Lys Gln Cys Asp Cys Glu
385 390 395 400

Asp Glu Asp Val Lys Tyr Leu Leu Gly Lys Ile Glu Gln Glu Asn Phe
405 410 415

Leu Leu Lys Gln Ile Ser Ser Ile Asn Ser Val Ile Pro His Gln Ile
420 425 430

His Leu Phe Glu Leu Asp Lys Ile Leu Glu Asn Leu Ala Lys Asn Tyr
435 440 445

Pro Ser Phe Asn Asn Lys Lys Glu Glu Phe Thr Lys Ile Glu Lys Ile
450 455 460

Arg Lys Thr Phe Thr Phe Arg Ile Pro Tyr Tyr Val Gly Pro Leu Asn
465 470 475 480

Asp Tyr His Lys Asn Asn Gly Gly Asn Ala Trp Ile Phe Arg Asn Lys
485 490 495

Gly Glu Lys Ile Arg Pro Trp Asn Phe Glu Lys Ile Val Asp Leu His
500 505 510

Lys Ser Glu Glu Glu Phe Ile Lys Arg Met Leu Asn Gln Cys Thr Tyr
515 520 525

Leu Pro Glu Glu Thr Val Leu Pro Lys Ser Ser Ile Leu Tyr Ser Glu
530 535 540

Tyr Met Val Leu Asn Glu Leu Asn Asn Leu Arg Ile Asn Gly Lys Pro
545 550 555 560

Leu Asp Thr Asp Val Lys Leu Lys Leu Ile Glu Glu Leu Phe Lys Lys
565 570 575

Lys Thr Lys Val Thr Leu Lys Ser Ile Arg Asp Tyr Met Val Arg Asn
580 585 590

Asn Phe Ala Asp Lys Glu Asp Phe Asp Asn Ser Glu Lys Asn Leu Glu

595 600 605

Ile Ala Ser Asn Met Lys Ser Tyr Ile Asp Phe Asn Asn Ile Leu Glu
610 615 620

Asp Lys Phe Asp Val Glu Met Val Glu Asp Leu Ile Glu Lys Ile Thr
625 630 635 640

Ile His Thr Gly Asn Lys Lys Leu Leu Lys Lys Tyr Ile Glu Glu Thr
645 650 655

Tyr Pro Asp Leu Ser Ser Ser Gln Ile Gln Lys Ile Ile Asn Leu Lys
660 665 670

Tyr Lys Asp Trp Gly Arg Leu Ser Arg Lys Leu Leu Asp Gly Ile Lys
675 680 685

Gly Thr Lys Lys Glu Thr Glu Lys Thr Asp Thr Val Ile Asn Phe Leu
690 695 700

Arg Asn Ser Ser Asp Asn Leu Met Gln Ile Ile Gly Ser Gln Asn Tyr
705 710 715 720

Ser Phe Asn Glu Tyr Ile Asp Lys Leu Arg Lys Lys Tyr Ile Pro Gln
725 730 735

Glu Ile Ser Tyr Glu Val Val Glu Asn Leu Tyr Val Ser Pro Ser Val
740 745 750

Lys Lys Met Ile Trp Gln Val Ile Arg Val Thr Glu Glu Ile Thr Lys
755 760 765

Val Met Gly Tyr Asp Pro Asp Lys Ile Phe Ile Glu Met Ala Lys Ser
770 775 780

Glu Glu Glu Lys Lys Thr Thr Ile Ser Arg Lys Asn Lys Leu Leu Asp
785 790 795 800

Leu Tyr Lys Ala Ile Lys Lys Asp Glu Arg Asp Ser Gln Tyr Glu Lys
805 810 815

Leu Leu Thr Gly Leu Asn Lys Leu Asp Asp Ser Asp Leu Arg Ser Arg
820 825 830

Lys Leu Tyr Leu Tyr Tyr Thr Gln Met Gly Arg Asp Met Tyr Thr Gly
835 840 845

Glu Lys Ile Asp Leu Asp Lys Leu Phe Asp Ser Thr His Tyr Asp Lys
850 855 860

Asp His Ile Ile Pro Gln Ser Met Lys Lys Asp Asp Ser Ile Ile Asn

865 870 875 880

Asn Leu Val Leu Val Asn Lys Asn Ala Asn Gln Thr Thr Lys Gly Asn
885 890 895

Ile Tyr Pro Val Pro Ser Ser Ile Arg Asn Asn Pro Lys Ile Tyr Asn
900 905 910

Tyr Trp Lys Tyr Leu Met Glu Lys Glu Phe Ile Ser Lys Glu Lys Tyr
915 920 925

Asn Arg Leu Ile Arg Asn Thr Pro Leu Thr Asn Glu Glu Leu Gly Gly
930 935 940

Phe Ile Asn Arg Gln Leu Val Glu Thr Arg Gln Ser Thr Lys Ala Ile
945 950 955 960

Lys Glu Leu Phe Glu Lys Phe Tyr Gln Lys Ser Lys Ile Ile Pro Val
965 970 975

Lys Ala Ser Leu Ala Ser Asp Leu Arg Lys Asp Met Asn Thr Leu Lys
980 985 990

Ser Arg Glu Val Asn Asp Leu His His Ala His Asp Ala Phe Leu Asn
995 1000 1005

Ile Val Ala Gly Asp Val Trp Asn Arg Glu Phe Thr Ser Asn Pro
1010 1015 1020

Ile Asn Tyr Val Lys Glu Asn Arg Glu Gly Asp Lys Val Lys Tyr
1025 1030 1035

Ser Leu Ser Lys Asp Phe Thr Arg Pro Arg Lys Ser Lys Gly Lys
1040 1045 1050

Val Ile Trp Thr Pro Glu Lys Gly Arg Lys Leu Ile Val Asp Thr
1055 1060 1065

Leu Asn Lys Pro Ser Val Leu Ile Ser Asn Glu Ser His Val Lys
1070 1075 1080

Lys Gly Glu Leu Phe Asn Ala Thr Ile Ala Gly Lys Lys Asp Tyr
1085 1090 1095

Lys Lys Gly Lys Ile Tyr Leu Pro Leu Lys Lys Asp Asp Arg Leu
1100 1105 1110

Gln Asp Val Ser Lys Tyr Gly Gly Tyr Lys Ala Ile Asn Gly Ala
1115 1120 1125

Phe Phe Phe Leu Val Glu His Thr Lys Ser Lys Lys Arg Ile Arg

1130 1135 1140

Ser Ile Glu Leu Phe Pro Leu His Leu Leu Ser Lys Phe Tyr Glu
1145 1150 1155

Asp Lys Asn Thr Val Leu Asp Tyr Ala Ile Asn Val Leu Gln Leu
1160 1165 1170

Gln Asp Pro Lys Ile Ile Ile Asp Lys Ile Asn Tyr Arg Thr Glu
1175 1180 1185

Ile Ile Ile Asp Asn Phe Ser Tyr Leu Ile Ser Thr Lys Ser Asn
1190 1195 1200

Asp Gly Ser Ile Thr Val Lys Pro Asn Glu Gln Met Tyr Trp Arg
1205 1210 1215

Val Asp Glu Ile Ser Asn Leu Lys Lys Ile Glu Asn Lys Tyr Lys
1220 1225 1230

Lys Asp Ala Ile Leu Thr Glu Glu Asp Arg Lys Ile Met Glu Ser
1235 1240 1245

Tyr Ile Asp Lys Ile Tyr Gln Gln Phe Lys Ala Gly Lys Tyr Lys
1250 1255 1260

Asn Arg Arg Thr Thr Asp Thr Ile Ile Glu Lys Tyr Glu Ile Ile
1265 1270 1275

Asp Leu Asp Thr Leu Asp Asn Lys Gln Leu Tyr Gln Leu Leu Val
1280 1285 1290

Ala Phe Ile Ser Leu Ser Tyr Lys Thr Ser Asn Asn Ala Val Asp
1295 1300 1305

Phe Thr Val Ile Gly Leu Gly Thr Glu Cys Gly Lys Pro Arg Ile
1310 1315 1320

Thr Asn Leu Pro Asp Asn Thr Tyr Leu Val Tyr Lys Ser Ile Thr
1325 1330 1335

Gly Ile Tyr Glu Lys Arg Ile Arg Ile Lys
1340 1345

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<212> PRT
<213> Coriobacterium glomerans

<400> 316

Met Lys Leu Arg Gly Ile Glu Asp Asp Tyr Ser Ile Gly Leu Asp Met
1 5 10 15

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Gly Thr Ser Ser Val Gly Trp Ala Val Thr Asp Glu Arg Gly Thr Leu
            20                  25                  30

Ala His Phe Lys Arg Lys Pro Thr Trp Gly Ser Arg Leu Phe Arg Glu
        35                  40                  45

Ala Gln Thr Ala Ala Val Ala Arg Met Pro Arg Gly Gln Arg Arg Arg
    50                  55                  60

Tyr Val Arg Arg Arg Trp Arg Leu Asp Leu Leu Gln Lys Leu Phe Glu
65                  70                  75                  80

Gln Gln Met Glu Gln Ala Asp Pro Asp Phe Phe Ile Arg Leu Arg Gln
                85                  90                  95

Ser Arg Leu Leu Arg Asp Asp Arg Ala Glu Glu His Ala Asp Tyr Arg
            100                 105                 110

Trp Pro Leu Phe Asn Asp Cys Lys Phe Thr Glu Arg Asp Tyr Tyr Gln
        115                 120                 125

Arg Phe Pro Thr Ile Tyr His Val Arg Ser Trp Leu Met Glu Thr Asp
    130                 135                 140

Glu Gln Ala Asp Ile Arg Leu Ile Tyr Leu Ala Leu His Asn Ile Val
145                 150                 155                 160

Lys His Arg Gly Asn Phe Leu Arg Glu Gly Gln Ser Leu Ser Ala Lys
                165                 170                 175

Ser Ala Arg Pro Asp Glu Ala Leu Asn His Leu Arg Glu Thr Leu Arg
            180                 185                 190

Val Trp Ser Ser Glu Arg Gly Phe Glu Cys Ser Ile Ala Asp Asn Gly
        195                 200                 205

Ser Ile Leu Ala Met Leu Thr His Pro Asp Leu Ser Pro Ser Asp Arg
    210                 215                 220

Arg Lys Lys Ile Ala Pro Leu Phe Asp Val Lys Ser Asp Asp Ala Ala
225                 230                 235                 240

Ala Asp Lys Lys Leu Gly Ile Ala Leu Ala Gly Ala Val Ile Gly Leu
                245                 250                 255

Lys Thr Glu Phe Lys Asn Ile Phe Gly Asp Phe Pro Cys Glu Asp Ser
            260                 265                 270

Ser Ile Tyr Leu Ser Asn Asp Glu Ala Val Asp Ala Val Arg Ser Ala
        275                 280                 285
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Cys Pro Asp Asp Cys Ala Glu Leu Phe Asp Arg Leu Cys Glu Val Tyr
    290                 295                 300

Ser Ala Tyr Val Leu Gln Gly Leu Leu Ser Tyr Ala Pro Gly Gln Thr
305                 310                 315                 320

Ile Ser Ala Asn Met Val Glu Lys Tyr Arg Arg Tyr Gly Glu Asp Leu
                325                 330                 335

Ala Leu Leu Lys Lys Leu Val Lys Ile Tyr Ala Pro Asp Gln Tyr Arg
            340                 345                 350

Met Phe Phe Ser Gly Ala Thr Tyr Pro Gly Thr Gly Ile Tyr Asp Ala
        355                 360                 365

Ala Gln Ala Arg Gly Tyr Thr Lys Tyr Asn Leu Gly Pro Lys Lys Ser
    370                 375                 380

Glu Tyr Lys Pro Ser Glu Ser Met Gln Tyr Asp Asp Phe Arg Lys Ala
385                 390                 395                 400

Val Glu Lys Leu Phe Ala Lys Thr Asp Ala Arg Ala Asp Glu Arg Tyr
                405                 410                 415

Arg Met Met Met Asp Arg Phe Asp Lys Gln Gln Phe Leu Arg Arg Leu
            420                 425                 430

Lys Thr Ser Asp Asn Gly Ser Ile Tyr His Gln Leu His Leu Glu Glu
        435                 440                 445

Leu Lys Ala Ile Val Glu Asn Gln Gly Arg Phe Tyr Pro Phe Leu Lys
    450                 455                 460

Arg Asp Ala Asp Lys Leu Val Ser Leu Val Ser Phe Arg Ile Pro Tyr
465                 470                 475                 480

Tyr Val Gly Pro Leu Ser Thr Arg Asn Ala Arg Thr Asp Gln His Gly
                485                 490                 495

Glu Asn Arg Phe Ala Trp Ser Glu Arg Lys Pro Gly Met Gln Asp Glu
            500                 505                 510

Pro Ile Phe Pro Trp Asn Trp Glu Ser Ile Ile Asp Arg Ser Lys Ser
        515                 520                 525

Ala Glu Lys Phe Ile Leu Arg Met Thr Gly Met Cys Thr Tyr Leu Gln
    530                 535                 540

Gln Glu Pro Val Leu Pro Lys Ser Ser Leu Leu Tyr Glu Glu Phe Cys
545                 550                 555                 560
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Val Leu Asn Glu Leu Asn Gly Ala His Trp Ser Ile Asp Gly Asp Asp
                565                 570                 575

Glu His Arg Phe Asp Ala Ala Asp Arg Glu Gly Ile Ile Glu Glu Leu
            580                 585                 590

Phe Arg Arg Lys Arg Thr Val Ser Tyr Gly Asp Val Ala Gly Trp Met
        595                 600                 605

Glu Arg Glu Arg Asn Gln Ile Gly Ala His Val Cys Gly Gly Gln Gly
    610                 615                 620

Glu Lys Gly Phe Glu Ser Lys Leu Gly Ser Tyr Ile Phe Phe Cys Lys
625                 630                 635                 640

Asp Val Phe Lys Val Glu Arg Leu Glu Gln Ser Asp Tyr Pro Met Ile
                645                 650                 655

Glu Arg Ile Ile Leu Trp Asn Thr Leu Phe Glu Asp Arg Lys Ile Leu
            660                 665                 670

Ser Gln Arg Leu Lys Glu Glu Tyr Gly Ser Arg Leu Ser Ala Glu Gln
        675                 680                 685

Ile Lys Thr Ile Cys Lys Lys Arg Phe Thr Gly Trp Gly Arg Leu Ser
    690                 695                 700

Glu Lys Phe Leu Thr Gly Ile Thr Val Gln Val Asp Glu Asp Ser Val
705                 710                 715                 720

Ser Ile Met Asp Val Leu Arg Glu Gly Cys Pro Val Ser Gly Lys Arg
                725                 730                 735

Gly Arg Ala Met Val Met Met Glu Ile Leu Arg Asp Glu Glu Leu Gly
            740                 745                 750

Phe Gln Lys Lys Val Asp Asp Phe Asn Arg Ala Phe Phe Ala Glu Asn
        755                 760                 765

Ala Gln Ala Leu Gly Val Asn Glu Leu Pro Gly Ser Pro Ala Val Arg
    770                 775                 780

Arg Ser Leu Asn Gln Ser Ile Arg Ile Val Asp Glu Ile Ala Ser Ile
785                 790                 795                 800

Ala Gly Lys Ala Pro Ala Asn Ile Phe Ile Glu Val Thr Arg Asp Glu
                805                 810                 815

Asp Pro Lys Lys Lys Gly Arg Arg Thr Lys Arg Arg Tyr Asn Asp Leu
            820                 825                 830
```

```
Lys Asp Ala Leu Glu Ala Phe Lys Lys Glu Asp Pro Glu Leu Trp Arg
        835                 840                 845

Glu Leu Cys Glu Thr Ala Pro Asn Asp Met Asp Glu Arg Leu Ser Leu
    850                 855                 860

Tyr Phe Met Gln Arg Gly Lys Cys Leu Tyr Ser Gly Arg Ala Ile Asp
865                 870                 875                 880

Ile His Gln Leu Ser Asn Ala Gly Ile Tyr Glu Val Asp His Ile Ile
                885                 890                 895

Pro Arg Thr Tyr Val Lys Asp Asp Ser Leu Glu Asn Lys Ala Leu Val
            900                 905                 910

Tyr Arg Glu Glu Asn Gln Arg Lys Thr Asp Met Leu Leu Ile Asp Pro
        915                 920                 925

Glu Ile Arg Arg Arg Met Ser Gly Tyr Trp Arg Met Leu His Glu Ala
    930                 935                 940

Lys Leu Ile Gly Asp Lys Lys Phe Arg Asn Leu Leu Arg Ser Arg Ile
945                 950                 955                 960

Asp Asp Lys Ala Leu Lys Gly Phe Ile Ala Arg Gln Leu Val Glu Thr
                965                 970                 975

Gly Gln Met Val Lys Leu Val Arg Ser Leu Leu Glu Ala Arg Tyr Pro
            980                 985                 990

Glu Thr Asn Ile Ile Ser Val Lys  Ala Ser Ile Ser His  Asp Leu Arg
        995                 1000                1005

Thr Ala  Ala Glu Leu Val Lys  Cys Arg Glu Ala Asn  Asp Phe His
    1010                1015                1020

His Ala  His Asp Ala Phe Leu  Ala Cys Arg Val Gly  Leu Phe Ile
    1025                1030                1035

Gln Lys  Arg His Pro Cys Val  Tyr Glu Asn Pro Ile  Gly Leu Ser
    1040                1045                1050

Gln Val  Val Arg Asn Tyr Val  Arg Gln Gln Ala Asp  Ile Phe Lys
    1055                1060                1065

Arg Cys  Arg Thr Ile Pro Gly  Ser Ser Gly Phe Ile  Val Asn Ser
    1070                1075                1080

Phe Met  Thr Ser Gly Phe Asp  Lys Glu Thr Gly Glu  Ile Phe Lys
    1085                1090                1095
```

```
Asp Asp  Trp Asp Ala Glu Ala  Glu Val Glu Gly Ile  Arg Arg Ser
    1100                1105                1110

Leu Asn  Phe Arg Gln Cys Phe  Ile Ser Arg Met Pro  Phe Glu Asp
    1115                1120                1125

His Gly  Val Phe Trp Asp Ala  Thr Ile Tyr Ser Pro  Arg Ala Lys
    1130                1135                1140

Lys Thr  Ala Ala Leu Pro Leu  Lys Gln Gly Leu Asn  Pro Ser Arg
    1145                1150                1155

Tyr Gly  Ser Phe Ser Arg Glu  Gln Phe Ala Tyr Phe  Phe Ile Tyr
    1160                1165                1170

Lys Ala  Arg Asn Pro Arg Lys  Glu Gln Thr Leu Phe  Glu Phe Ala
    1175                1180                1185

Gln Val  Pro Val Arg Leu Ser  Ala Gln Ile Arg Gln  Asp Glu Asn
    1190                1195                1200

Ala Leu  Glu Arg Tyr Ala Arg  Glu Leu Ala Lys Asp  Gln Gly Leu
    1205                1210                1215

Glu Phe  Ile Arg Ile Glu Arg  Ser Lys Ile Leu Lys  Asn Gln Leu
    1220                1225                1230

Ile Glu  Ile Asp Gly Asp Arg  Leu Cys Ile Thr Gly  Lys Glu Glu
    1235                1240                1245

Val Arg  Asn Ala Cys Glu Leu  Ala Phe Ala Gln Asp  Glu Met Arg
    1250                1255                1260

Val Ile  Arg Met Leu Val Ser  Glu Lys Pro Val Ser  Arg Glu Cys
    1265                1270                1275

Val Ile  Ser Leu Phe Asn Arg  Ile Leu Leu His Gly  Asp Gln Ala
    1280                1285                1290

Ser Arg  Arg Leu Ser Lys Gln  Leu Lys Leu Ala Leu  Leu Ser Glu
    1295                1300                1305

Ala Phe  Ser Glu Ala Ser Asp  Asn Val Gln Arg Asn  Val Val Leu
    1310                1315                1320

Gly Leu  Ile Ala Ile Phe Asn  Gly Ser Thr Asn Met  Val Asn Leu
    1325                1330                1335

Ser Asp  Ile Gly Gly Ser Lys  Phe Ala Gly Asn Val  Arg Ile Lys
    1340                1345                1350
```

Tyr Lys Lys Glu Leu Ala Ser Pro Lys Val Asn Val His Leu Ile
1355 1360 1365

Asp Gln Ser Val Thr Gly Met Phe Glu Arg Arg Thr Lys Ile Gly
1370 1375 1380

Leu

<210> 317
<211> 1391
<212> PRT
<213> Eubacterium yurii

<400> 317

Met Glu Asn Lys Gln Tyr Tyr Ile Gly Leu Asp Val Gly Thr Asn Ser
1 5 10 15

Val Gly Trp Ala Val Thr Asp Thr Ser Tyr Asn Leu Leu Arg Ala Lys
20 25 30

Gly Lys Asp Met Trp Gly Ala Arg Leu Phe Glu Lys Ala Asn Thr Ala
35 40 45

Ala Glu Arg Arg Thr Lys Arg Thr Ser Arg Arg Arg Ser Glu Arg Glu
50 55 60

Lys Ala Arg Lys Ala Met Leu Lys Glu Leu Phe Ala Asp Glu Ile Asn
65 70 75 80

Arg Val Asp Pro Ser Phe Phe Ile Arg Leu Glu Glu Ser Lys Phe Phe
85 90 95

Leu Asp Asp Arg Ser Glu Asn Asn Arg Gln Arg Tyr Thr Leu Phe Asn
100 105 110

Asp Ala Thr Phe Thr Asp Lys Asp Tyr Tyr Glu Lys Tyr Lys Thr Ile
115 120 125

Phe His Leu Arg Ser Ala Leu Ile Asn Ser Asp Glu Lys Phe Asp Val
130 135 140

Arg Leu Val Phe Leu Ala Ile Leu Asn Leu Phe Ser His Arg Gly His
145 150 155 160

Phe Leu Asn Ala Ser Leu Lys Gly Asp Gly Asp Ile Gln Gly Met Asp
165 170 175

Val Phe Tyr Asn Asp Leu Val Glu Ser Cys Glu Tyr Phe Glu Ile Glu
180 185 190

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

Lys Gly Lys Ser Arg Thr Lys Ile Leu Glu Glu Leu Ser Glu Glu Leu
    210                 215                 220

Ser Ile Ser Lys Lys Asp Lys Ser Lys Tyr Asn Leu Ile Lys Leu Ile
225                 230                 235                 240

Ser Gly Leu Glu Ala Ser Val Val Glu Leu Tyr Asn Ile Glu Asp Ile
                245                 250                 255

Gln Asp Glu Asn Lys Lys Ile Lys Ile Gly Phe Arg Glu Ser Asp Tyr
            260                 265                 270

Glu Glu Ser Ser Leu Lys Val Lys Glu Ile Ile Gly Asp Glu Tyr Phe
        275                 280                 285

Asp Leu Val Glu Arg Ala Lys Ser Val His Asp Met Gly Leu Leu Ser
    290                 295                 300

Asn Ile Ile Gly Asn Ser Lys Tyr Leu Cys Glu Ala Arg Val Glu Ala
305                 310                 315                 320

Tyr Glu Asn His His Lys Asp Leu Leu Lys Ile Lys Glu Leu Leu Lys
                325                 330                 335

Lys Tyr Asp Lys Lys Ala Tyr Asn Asp Met Phe Arg Lys Met Thr Asp
            340                 345                 350

Lys Asn Tyr Ser Ala Tyr Val Gly Ser Val Asn Ser Asn Ile Ala Lys
        355                 360                 365

Glu Arg Arg Ser Val Asp Lys Arg Lys Ile Glu Asp Leu Tyr Lys Tyr
    370                 375                 380

Ile Glu Asp Thr Ala Leu Lys Asn Ile Pro Asp Asp Asn Lys Asp Lys
385                 390                 395                 400

Ile Glu Ile Leu Glu Lys Ile Lys Leu Gly Glu Phe Leu Lys Lys Gln
                405                 410                 415

Leu Thr Ala Ser Asn Gly Val Ile Pro Asn Gln Leu Gln Ser Arg Glu
            420                 425                 430

Leu Arg Ala Ile Leu Lys Lys Ala Glu Asn Tyr Leu Pro Phe Leu Lys
        435                 440                 445

Glu Lys Gly Glu Lys Asn Leu Thr Val Ser Glu Met Ile Ile Gln Leu
    450                 455                 460
```

```
Phe Glu Phe Gln Ile Pro Tyr Tyr Val Gly Pro Leu Asp Lys Asn Pro
465                 470                 475                 480

Lys Lys Asp Asn Lys Ala Asn Ser Trp Ala Lys Ile Lys Gln Gly Gly
                485                 490                 495

Arg Ile Leu Pro Trp Asn Phe Glu Asp Lys Val Asp Val Lys Gly Ser
            500                 505                 510

Arg Lys Glu Phe Ile Glu Lys Met Val Arg Lys Cys Thr Tyr Ile Ser
        515                 520                 525

Asp Glu His Thr Leu Pro Lys Gln Ser Leu Leu Tyr Glu Lys Phe Met
    530                 535                 540

Val Leu Asn Glu Ile Asn Asn Ile Lys Ile Asp Gly Glu Lys Ile Ser
545                 550                 555                 560

Val Glu Ala Lys Gln Lys Ile Tyr Asn Asp Leu Phe Val Lys Gly Lys
                565                 570                 575

Lys Val Ser Gln Lys Asp Ile Lys Lys Glu Leu Ile Ser Leu Asn Ile
            580                 585                 590

Met Asp Lys Asp Ser Val Leu Ser Gly Thr Asp Thr Val Cys Asn Ala
        595                 600                 605

Tyr Leu Ser Ser Ile Gly Lys Phe Thr Gly Val Phe Lys Glu Glu Ile
    610                 615                 620

Asn Lys Gln Ser Ile Val Asp Met Ile Glu Asp Ile Ile Phe Leu Lys
625                 630                 635                 640

Thr Val Tyr Gly Asp Glu Lys Arg Phe Val Lys Glu Glu Ile Val Glu
                645                 650                 655

Lys Tyr Gly Asp Glu Ile Asp Lys Asp Lys Ile Lys Arg Ile Leu Gly
            660                 665                 670

Phe Lys Phe Ser Asn Trp Gly Asn Leu Ser Lys Ser Phe Leu Glu Leu
        675                 680                 685

Glu Gly Ala Asp Val Gly Thr Gly Glu Val Arg Ser Ile Ile Gln Ser
    690                 695                 700

Leu Trp Glu Thr Asn Phe Asn Leu Met Glu Leu Leu Ser Ser Arg Phe
705                 710                 715                 720

Thr Tyr Met Asp Glu Leu Glu Lys Arg Val Lys Lys Leu Glu Lys Pro
                725                 730                 735
```

```
Leu Ser Glu Trp Thr Ile Glu Asp Leu Asp Asp Met Tyr Leu Ser Ser
            740                 745                 750

Pro Val Lys Arg Met Ile Trp Gln Ser Met Lys Ile Val Asp Glu Ile
        755                 760                 765

Gln Thr Val Ile Gly Tyr Ala Pro Lys Arg Ile Phe Val Glu Met Thr
    770                 775                 780

Arg Ser Glu Gly Glu Lys Val Arg Thr Lys Ser Arg Lys Asp Arg Leu
785                 790                 795                 800

Lys Glu Leu Tyr Asn Gly Ile Lys Glu Asp Ser Lys Gln Trp Val Lys
                805                 810                 815

Glu Leu Asp Ser Lys Asp Glu Ser Tyr Phe Arg Ser Lys Lys Met Tyr
            820                 825                 830

Leu Tyr Tyr Leu Gln Lys Gly Arg Cys Met Tyr Ser Gly Glu Val Ile
        835                 840                 845

Glu Leu Asp Lys Leu Met Asp Asp Asn Leu Tyr Asp Ile Asp His Ile
    850                 855                 860

Tyr Pro Arg Ser Phe Val Lys Asp Asp Ser Leu Asp Asn Leu Val Leu
865                 870                 875                 880

Val Lys Lys Glu Ile Asn Asn Arg Lys Gln Asn Asp Pro Ile Thr Pro
                885                 890                 895

Gln Ile Gln Ala Ser Cys Gln Gly Phe Trp Lys Ile Leu His Asp Gln
            900                 905                 910

Gly Phe Met Ser Asn Glu Lys Tyr Ser Arg Leu Thr Arg Lys Thr Gln
        915                 920                 925

Glu Phe Ser Asp Glu Glu Lys Leu Ser Phe Ile Asn Arg Gln Ile Val
    930                 935                 940

Glu Thr Gly Gln Ala Thr Lys Cys Met Ala Gln Ile Leu Gln Lys Ser
945                 950                 955                 960

Met Gly Glu Asp Val Asp Val Val Phe Ser Lys Ala Arg Leu Val Ser
                965                 970                 975

Glu Phe Arg His Lys Phe Glu Leu Phe Lys Ser Arg Leu Ile Asn Asp
            980                 985                 990

Phe His His Ala Asn Asp Ala Tyr  Leu Asn Ile Val Val  Gly Asn Ser
        995                 1000                1005
```

```
Tyr Phe  Val Lys Phe Thr Arg  Asn Pro Ala Asn Phe  Ile Lys Asp
    1010                1015                1020

Ala Arg  Lys Asn Pro Asp Asn  Pro Val Tyr Lys Tyr  His Met Asp
    1025                1030                1035

Arg Phe  Phe Glu Arg Asp Val  Lys Ser Lys Ser Glu  Val Ala Trp
    1040                1045                1050

Ile Gly  Gln Ser Glu Gly Asn  Ser Gly Thr Ile Val  Ile Val Lys
    1055                1060                1065

Lys Thr  Met Ala Lys Asn Ser  Pro Leu Ile Thr Lys  Lys Val Glu
    1070                1075                1080

Glu Gly  His Gly Ser Ile Thr  Lys Glu Thr Ile Val  Gly Val Lys
    1085                1090                1095

Glu Ile  Lys Phe Gly Arg Asn  Lys Val Glu Lys Ala  Asp Lys Thr
    1100                1105                1110

Pro Lys  Lys Pro Asn Leu Gln  Ala Tyr Arg Pro Ile  Lys Thr Ser
    1115                1120                1125

Asp Glu  Arg Leu Cys Asn Ile  Leu Arg Tyr Gly Gly  Arg Thr Ser
    1130                1135                1140

Ile Ser  Ile Ser Gly Tyr Cys  Leu Val Glu Tyr Val  Lys Lys Arg
    1145                1150                1155

Lys Thr  Ile Arg Ser Leu Glu  Ala Ile Pro Val Tyr  Leu Gly Arg
    1160                1165                1170

Lys Asp  Ser Leu Ser Glu Glu  Lys Leu Leu Asn Tyr  Phe Arg Tyr
    1175                1180                1185

Asn Leu  Asn Asp Gly Gly Lys  Asp Ser Val Ser Asp  Ile Arg Leu
    1190                1195                1200

Cys Leu  Pro Phe Ile Ser Thr  Asn Ser Leu Val Lys  Ile Asp Gly
    1205                1210                1215

Tyr Leu  Tyr Tyr Leu Gly Gly  Lys Asn Asp Asp Arg  Ile Gln Leu
    1220                1225                1230

Tyr Asn  Ala Tyr Gln Leu Lys  Met Lys Lys Glu Glu  Val Glu Tyr
    1235                1240                1245

Ile Arg  Lys Ile Glu Lys Ala  Val Ser Met Ser Lys  Phe Asp Glu
    1250                1255                1260
```

```
Ile Asp  Arg Glu Lys Asn Pro  Val Leu Thr Glu Glu  Lys Asn Ile
    1265                1270                1275

Glu Leu  Tyr Asn Lys Ile Gln  Asp Lys Phe Glu Asn  Thr Val Phe
    1280                1285                1290

Ser Lys  Arg Met Ser Leu Val  Lys Tyr Asn Lys Lys  Asp Leu Ser
    1295                1300                1305

Phe Gly  Asp Phe Leu Lys Asn  Lys Lys Ser Lys Phe  Glu Glu Ile
    1310                1315                1320

Asp Leu  Glu Lys Gln Cys Lys  Val Leu Tyr Asn Ile  Ile Phe Asn
    1325                1330                1335

Leu Ser  Asn Leu Lys Glu Val  Asp Leu Ser Asp Ile  Gly Gly Ser
    1340                1345                1350

Lys Ser  Thr Gly Lys Cys Arg  Cys Lys Lys Asn Ile  Thr Asn Tyr
    1355                1360                1365

Lys Glu  Phe Lys Leu Ile Gln  Gln Ser Ile Thr Gly  Leu Tyr Ser
    1370                1375                1380

Cys Glu  Lys Asp Leu Met Thr  Ile
    1385                1390
```

<210> 318
<211> 1364
<212> PRT
<213> Peptoniphilus duerdenii

<400> 318

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Met Lys Asn Leu Lys Glu Tyr Tyr Ile Gly Leu Asp Ile Gly Thr Ala
1               5                   10                  15

Ser Val Gly Trp Ala Val Thr Asp Glu Ser Tyr Asn Ile Pro Lys Phe
            20                  25                  30

Asn Gly Lys Lys Met Trp Gly Val Arg Leu Phe Asp Asp Ala Lys Thr
        35                  40                  45

Ala Glu Glu Arg Arg Thr Gln Arg Gly Ser Arg Arg Arg Leu Asn Arg
    50                  55                  60

Arg Lys Glu Arg Ile Asn Leu Leu Gln Asp Leu Phe Ala Thr Glu Ile
65                  70                  75                  80

Ser Lys Val Asp Pro Asn Phe Phe Leu Arg Leu Asp Asn Ser Asp Leu
                85                  90                  95
```

```
Tyr Arg Glu Asp Lys Asp Glu Lys Leu Lys Ser Lys Tyr Thr Leu Phe
            100                 105                 110

Asn Asp Lys Asp Phe Lys Asp Arg Asp Tyr His Lys Lys Tyr Pro Thr
        115                 120                 125

Ile His His Leu Ile Met Asp Leu Ile Glu Asp Glu Gly Lys Lys Asp
    130                 135                 140

Ile Arg Leu Leu Tyr Leu Ala Cys His Tyr Leu Leu Lys Asn Arg Gly
145                 150                 155                 160

His Phe Ile Phe Glu Gly Gln Lys Phe Asp Thr Lys Asn Ser Phe Asp
                165                 170                 175

Lys Ser Ile Asn Asp Leu Lys Ile His Leu Arg Asp Glu Tyr Asn Ile
            180                 185                 190

Asp Leu Glu Phe Asn Asn Glu Asp Leu Ile Glu Ile Ile Thr Asp Thr
        195                 200                 205

Thr Leu Asn Lys Thr Asn Lys Lys Lys Glu Leu Lys Asn Ile Val Gly
    210                 215                 220

Asp Thr Lys Phe Leu Lys Ala Ile Ser Ala Ile Met Ile Gly Ser Ser
225                 230                 235                 240

Gln Lys Leu Val Asp Leu Phe Glu Asp Gly Glu Phe Glu Glu Thr Thr
                245                 250                 255

Val Lys Ser Val Asp Phe Ser Thr Thr Ala Phe Asp Asp Lys Tyr Ser
            260                 265                 270

Glu Tyr Glu Glu Ala Leu Gly Asp Thr Ile Ser Leu Leu Asn Ile Leu
        275                 280                 285

Lys Ser Ile Tyr Asp Ser Ser Ile Leu Glu Asn Leu Leu Lys Asp Ala
    290                 295                 300

Asp Lys Ser Lys Asp Gly Asn Lys Tyr Ile Ser Lys Ala Phe Val Lys
305                 310                 315                 320

Lys Phe Asn Lys His Gly Lys Asp Leu Lys Thr Leu Lys Arg Ile Ile
                325                 330                 335

Lys Lys Tyr Leu Pro Ser Glu Tyr Ala Asn Ile Phe Arg Asn Lys Ser
            340                 345                 350

Ile Asn Asp Asn Tyr Val Ala Tyr Thr Lys Ser Asn Ile Thr Ser Asn
        355                 360                 365
```

```
Lys Arg Thr Lys Ala Ser Lys Phe Thr Lys Gln Glu Asp Phe Tyr Lys
    370                 375                 380

Phe Ile Lys Lys His Leu Asp Thr Ile Lys Glu Thr Lys Leu Asn Ser
385                 390                 395                 400

Ser Glu Asn Glu Asp Leu Lys Leu Ile Asp Glu Met Leu Thr Asp Ile
                405                 410                 415

Glu Phe Lys Thr Phe Ile Pro Lys Leu Lys Ser Ser Asp Asn Gly Val
            420                 425                 430

Ile Pro Tyr Gln Leu Lys Leu Met Glu Leu Lys Lys Ile Leu Asp Asn
        435                 440                 445

Gln Ser Lys Tyr Tyr Asp Phe Leu Asn Glu Ser Asp Glu Tyr Gly Thr
    450                 455                 460

Val Lys Asp Lys Val Glu Ser Ile Met Glu Phe Arg Ile Pro Tyr Tyr
465                 470                 475                 480

Val Gly Pro Leu Asn Pro Asp Ser Lys Tyr Ala Trp Ile Lys Arg Glu
                485                 490                 495

Asn Thr Lys Ile Thr Pro Trp Asn Phe Lys Asp Ile Val Asp Leu Asp
            500                 505                 510

Ser Ser Arg Glu Glu Phe Ile Asp Arg Leu Ile Gly Arg Cys Thr Tyr
        515                 520                 525

Leu Lys Glu Glu Lys Val Leu Pro Lys Ala Ser Leu Ile Tyr Asn Glu
    530                 535                 540

Phe Met Val Leu Asn Glu Leu Asn Asn Leu Lys Leu Asn Glu Phe Leu
545                 550                 555                 560

Ile Thr Glu Glu Met Lys Lys Ala Ile Phe Glu Glu Leu Phe Lys Thr
                565                 570                 575

Lys Lys Lys Val Thr Leu Lys Ala Val Ser Asn Leu Leu Lys Lys Glu
            580                 585                 590

Phe Asn Leu Thr Gly Asp Ile Leu Leu Ser Gly Thr Asp Gly Asp Phe
        595                 600                 605

Lys Gln Gly Leu Asn Ser Tyr Ile Asp Phe Lys Asn Ile Ile Gly Asp
    610                 615                 620

Lys Val Asp Arg Asp Asp Tyr Arg Ile Lys Ile Glu Glu Ile Ile Lys
625                 630                 635                 640
```

```
Leu Ile Val Leu Tyr Glu Asp Asp Lys Thr Tyr Leu Lys Lys Lys Ile
                645                 650                 655

Lys Ser Ala Tyr Lys Asn Asp Phe Thr Asp Asp Glu Ile Lys Lys Ile
            660                 665                 670

Ala Ala Leu Asn Tyr Lys Asp Trp Gly Arg Leu Ser Lys Arg Phe Leu
        675                 680                 685

Thr Gly Ile Glu Gly Val Asp Lys Thr Thr Gly Glu Lys Gly Ser Ile
    690                 695                 700

Ile Tyr Phe Met Arg Glu Tyr Asn Leu Asn Leu Met Glu Leu Met Ser
705                 710                 715                 720

Gly His Tyr Thr Phe Thr Glu Glu Val Glu Lys Leu Asn Pro Val Glu
                725                 730                 735

Asn Arg Glu Leu Cys Tyr Glu Met Val Asp Glu Leu Tyr Leu Ser Pro
            740                 745                 750

Ser Val Lys Arg Met Leu Trp Gln Ser Leu Arg Val Val Asp Glu Ile
        755                 760                 765

Lys Arg Ile Ile Gly Lys Asp Pro Lys Lys Ile Phe Ile Glu Met Ala
    770                 775                 780

Arg Ala Lys Glu Ala Lys Asn Ser Arg Lys Glu Ser Arg Lys Asn Lys
785                 790                 795                 800

Leu Leu Glu Phe Tyr Lys Phe Gly Lys Lys Ala Phe Ile Asn Glu Ile
                805                 810                 815

Gly Glu Glu Arg Tyr Asn Tyr Leu Leu Asn Glu Ile Asn Ser Glu Glu
            820                 825                 830

Glu Ser Lys Phe Arg Trp Asp Asn Leu Tyr Leu Tyr Tyr Thr Gln Leu
        835                 840                 845

Gly Arg Cys Met Tyr Ser Leu Glu Pro Ile Asp Leu Ala Asp Leu Lys
    850                 855                 860

Ser Asn Asn Ile Tyr Asp Gln Asp His Ile Tyr Pro Lys Ser Lys Ile
865                 870                 875                 880

Tyr Asp Asp Ser Leu Glu Asn Arg Val Leu Val Lys Lys Asn Leu Asn
                885                 890                 895

His Glu Lys Gly Asn Gln Tyr Pro Ile Pro Glu Lys Val Leu Asn Lys
            900                 905                 910
```

```
Asn Ala Tyr Gly Phe Trp Lys Ile Leu Phe Asp Lys Gly Leu Ile Gly
        915                 920                 925

Gln Lys Lys Tyr Thr Arg Leu Thr Arg Arg Thr Pro Phe Glu Glu Arg
    930                 935                 940

Glu Leu Ala Glu Phe Ile Glu Arg Gln Ile Val Glu Thr Arg Gln Ala
945                 950                 955                 960

Thr Lys Glu Thr Ala Asn Leu Leu Lys Asn Ile Cys Gln Asp Ser Glu
                965                 970                 975

Ile Val Tyr Ser Lys Ala Glu Asn Ala Ser Arg Phe Arg Gln Glu Phe
            980                 985                 990

Asp Ile Ile Lys Cys Arg Thr Val  Asn Asp Leu His His  Met His Asp
        995                 1000                1005

Ala Tyr  Leu Asn Ile Val Val  Gly Asn Val Tyr Asn  Thr Lys Phe
    1010                1015                1020

Thr Lys  Asn Pro Leu Asn Phe  Ile Lys Asp Lys Asp  Asn Val Arg
    1025                1030                1035

Ser Tyr  Asn Leu Glu Asn Met  Phe Lys Tyr Asp Val  Val Arg Gly
    1040                1045                1050

Ser Tyr  Thr Ala Trp Ile Ala  Asp Asp Ser Glu Gly  Asn Val Lys
    1055                1060                1065

Ala Ala  Thr Ile Lys Lys Val  Lys Arg Glu Leu Glu  Gly Lys Asn
    1070                1075                1080

Tyr Arg  Phe Thr Arg Met Ser  Tyr Ile Gly Thr Gly  Gly Leu Tyr
    1085                1090                1095

Asp Gln  Asn Leu Met Arg Lys  Gly Lys Gly Gln Ile  Pro Gln Lys
    1100                1105                1110

Glu Asn  Thr Asn Lys Ser Asn  Ile Glu Lys Tyr Gly  Gly Tyr Asn
    1115                1120                1125

Lys Ala  Ser Ser Ala Tyr Phe  Ala Leu Ile Glu Ser  Asp Gly Lys
    1130                1135                1140

Ala Gly  Arg Glu Arg Thr Leu  Glu Thr Ile Pro Ile  Met Val Tyr
    1145                1150                1155

Asn Gln  Glu Lys Tyr Gly Asn  Thr Glu Ala Val Asp  Lys Tyr Leu
    1160                1165                1170
```

Lys Asp Asn Leu Glu Leu Gln Asp Pro Lys Ile Leu Lys Asp Lys
1175 1180 1185

Ile Lys Ile Asn Ser Leu Ile Lys Leu Asp Gly Phe Leu Tyr Asn
1190 1195 1200

Ile Lys Gly Lys Thr Gly Asp Ser Leu Ser Ile Ala Gly Ser Val
1205 1210 1215

Gln Leu Ile Val Asn Lys Glu Glu Gln Lys Leu Ile Lys Lys Met
1220 1225 1230

Asp Lys Phe Leu Val Lys Lys Lys Asp Asn Lys Asp Ile Lys Val
1235 1240 1245

Thr Ser Phe Asp Asn Ile Lys Glu Glu Glu Leu Ile Lys Leu Tyr
1250 1255 1260

Lys Thr Leu Ser Asp Lys Leu Asn Asn Gly Ile Tyr Ser Asn Lys
1265 1270 1275

Arg Asn Asn Gln Ala Lys Asn Ile Ser Glu Ala Leu Asp Lys Phe
1280 1285 1290

Lys Glu Ile Ser Ile Glu Glu Lys Ile Asp Val Leu Asn Gln Ile
1295 1300 1305

Ile Leu Leu Phe Gln Ser Tyr Asn Asn Gly Cys Asn Leu Lys Ser
1310 1315 1320

Ile Gly Leu Ser Ala Lys Thr Gly Val Val Phe Ile Pro Lys Lys
1325 1330 1335

Leu Asn Tyr Lys Glu Cys Lys Leu Ile Asn Gln Ser Ile Thr Gly
1340 1345 1350

Leu Phe Glu Asn Glu Val Asp Leu Leu Asn Leu
1355 1360

<210> 319
<211> 1358
<212> PRT
<213> Acidaminococcus sp.

<400> 319

Met Gly Lys Met Tyr Tyr Leu Gly Leu Asp Ile Gly Thr Asn Ser Val
1 5 10 15

Gly Tyr Ala Val Thr Asp Pro Ser Tyr His Leu Leu Lys Phe Lys Gly
20 25 30

Glu Pro Met Trp Gly Ala His Val Phe Ala Ala Gly Asn Gln Ser Ala

```
        35                  40                  45

Glu Arg Arg Ser Phe Arg Thr Ser Arg Arg Arg Leu Asp Arg Arg Gln
    50                  55                  60

Gln Arg Val Lys Leu Val Gln Glu Ile Phe Ala Pro Val Ile Ser Pro
65                  70                  75                  80

Ile Asp Pro Arg Phe Phe Ile Arg Leu His Glu Ser Ala Leu Trp Arg
                85                  90                  95

Asp Asp Val Ala Glu Thr Asp Lys His Ile Phe Phe Asn Asp Pro Thr
            100                 105                 110

Tyr Thr Asp Lys Glu Tyr Tyr Ser Asp Tyr Pro Thr Ile His His Leu
        115                 120                 125

Ile Val Asp Leu Met Glu Ser Ser Glu Lys His Asp Pro Arg Leu Val
    130                 135                 140

Tyr Leu Ala Val Ala Trp Leu Val Ala His Arg Gly His Phe Leu Asn
145                 150                 155                 160

Glu Val Asp Lys Asp Asn Ile Gly Asp Val Leu Ser Phe Asp Ala Phe
                165                 170                 175

Tyr Pro Glu Phe Leu Ala Phe Leu Ser Asp Asn Gly Val Ser Pro Trp
            180                 185                 190

Val Cys Glu Ser Lys Ala Leu Gln Ala Thr Leu Leu Ser Arg Asn Ser
        195                 200                 205

Val Asn Asp Lys Tyr Lys Ala Leu Lys Ser Leu Ile Phe Gly Ser Gln
    210                 215                 220

Lys Pro Glu Asp Asn Phe Asp Ala Asn Ile Ser Glu Asp Gly Leu Ile
225                 230                 235                 240

Gln Leu Leu Ala Gly Lys Lys Val Lys Val Asn Lys Leu Phe Pro Gln
                245                 250                 255

Glu Ser Asn Asp Ala Ser Phe Thr Leu Asn Asp Lys Glu Asp Ala Ile
            260                 265                 270

Glu Glu Ile Leu Gly Thr Leu Thr Pro Asp Glu Cys Glu Trp Ile Ala
        275                 280                 285

His Ile Arg Arg Leu Phe Asp Trp Ala Ile Met Lys His Ala Leu Lys
    290                 295                 300

Asp Gly Arg Thr Ile Ser Glu Ser Lys Val Lys Leu Tyr Glu Gln His
```

305 310 315 320

His His Asp Leu Thr Gln Leu Lys Tyr Phe Val Lys Thr Tyr Leu Ala
325 330 335

Lys Glu Tyr Asp Asp Ile Phe Arg Asn Val Asp Ser Glu Thr Thr Lys
340 345 350

Asn Tyr Val Ala Tyr Ser Tyr His Val Lys Glu Val Lys Gly Thr Leu
355 360 365

Pro Lys Asn Lys Ala Thr Gln Glu Glu Phe Cys Lys Tyr Val Leu Gly
370 375 380

Lys Val Lys Asn Ile Glu Cys Ser Glu Ala Asp Lys Val Asp Phe Asp
385 390 395 400

Glu Met Ile Gln Arg Leu Thr Asp Asn Ser Phe Met Pro Lys Gln Val
405 410 415

Ser Gly Glu Asn Arg Val Ile Pro Tyr Gln Leu Tyr Tyr Tyr Glu Leu
420 425 430

Lys Thr Ile Leu Asn Lys Ala Ala Ser Tyr Leu Pro Phe Leu Thr Gln
435 440 445

Cys Gly Lys Asp Ala Ile Ser Asn Gln Asp Lys Leu Leu Ser Ile Met
450 455 460

Thr Phe Arg Ile Pro Tyr Phe Val Gly Pro Leu Arg Lys Asp Asn Ser
465 470 475 480

Glu His Ala Trp Leu Glu Arg Lys Ala Gly Lys Ile Tyr Pro Trp Asn
485 490 495

Phe Asn Asp Lys Val Asp Leu Asp Lys Ser Glu Glu Ala Phe Ile Arg
500 505 510

Arg Met Thr Asn Thr Cys Thr Tyr Tyr Pro Gly Glu Asp Val Leu Pro
515 520 525

Leu Asp Ser Leu Ile Tyr Glu Lys Phe Met Ile Leu Asn Glu Ile Asn
530 535 540

Asn Ile Arg Ile Asp Gly Tyr Pro Ile Ser Val Asp Val Lys Gln Gln
545 550 555 560

Val Phe Gly Leu Phe Glu Lys Lys Arg Arg Val Thr Val Lys Asp Ile
565 570 575

Gln Asn Leu Leu Leu Ser Leu Gly Ala Leu Asp Lys His Gly Lys Leu

580 585 590

Thr Gly Ile Asp Thr Thr Ile His Ser Asn Tyr Asn Thr Tyr His His
595 600 605

Phe Lys Ser Leu Met Glu Arg Gly Val Leu Thr Arg Asp Asp Val Glu
610 615 620

Arg Ile Val Glu Arg Met Thr Tyr Ser Asp Asp Thr Lys Arg Val Arg
625 630 635 640

Leu Trp Leu Asn Asn Asn Tyr Gly Thr Leu Thr Ala Asp Asp Val Lys
645 650 655

His Ile Ser Arg Leu Arg Lys His Asp Phe Gly Arg Leu Ser Lys Met
660 665 670

Phe Leu Thr Gly Leu Lys Gly Val His Lys Glu Thr Gly Glu Arg Ala
675 680 685

Ser Ile Leu Asp Phe Met Trp Asn Thr Asn Asp Asn Leu Met Gln Leu
690 695 700

Leu Ser Glu Cys Tyr Thr Phe Ser Asp Glu Ile Thr Lys Leu Gln Glu
705 710 715 720

Ala Tyr Tyr Ala Lys Ala Gln Leu Ser Leu Asn Asp Phe Leu Asp Ser
725 730 735

Met Tyr Ile Ser Asn Ala Val Lys Arg Pro Ile Tyr Arg Thr Leu Ala
740 745 750

Val Val Asn Asp Ile Arg Lys Ala Cys Gly Thr Ala Pro Lys Arg Ile
755 760 765

Phe Ile Glu Met Ala Arg Asp Gly Glu Ser Lys Lys Lys Arg Ser Val
770 775 780

Thr Arg Arg Glu Gln Ile Lys Asn Leu Tyr Arg Ser Ile Arg Lys Asp
785 790 795 800

Phe Gln Gln Glu Val Asp Phe Leu Glu Lys Ile Leu Glu Asn Lys Ser
805 810 815

Asp Gly Gln Leu Gln Ser Asp Ala Leu Tyr Leu Tyr Phe Ala Gln Leu
820 825 830

Gly Arg Asp Met Tyr Thr Gly Asp Pro Ile Lys Leu Glu His Ile Lys
835 840 845

Asp Gln Ser Phe Tyr Asn Ile Asp His Ile Tyr Pro Gln Ser Met Val

```
    850                 855                 860

Lys Asp Asp Ser Leu Asp Asn Lys Val Leu Val Gln Ser Glu Ile Asn
865                 870                 875                 880

Gly Glu Lys Ser Ser Arg Tyr Pro Leu Asp Ala Ala Ile Arg Asn Lys
                885                 890                 895

Met Lys Pro Leu Trp Asp Ala Tyr Tyr Asn His Gly Leu Ile Ser Leu
            900                 905                 910

Lys Lys Tyr Gln Arg Leu Thr Arg Ser Thr Pro Phe Thr Asp Asp Glu
        915                 920                 925

Lys Trp Asp Phe Ile Asn Arg Gln Leu Val Glu Thr Arg Gln Ser Thr
    930                 935                 940

Lys Ala Leu Ala Ile Leu Leu Lys Arg Lys Phe Pro Asp Thr Glu Ile
945                 950                 955                 960

Val Tyr Ser Lys Ala Gly Leu Ser Ser Asp Phe Arg His Glu Phe Gly
                965                 970                 975

Leu Val Lys Ser Arg Asn Ile Asn Asp Leu His His Ala Lys Asp Ala
            980                 985                 990

Phe Leu Ala Ile Val Thr Gly Asn  Val Tyr His Glu Arg  Phe Asn Arg
        995                 1000                1005

Arg Trp  Phe Met Val Asn Gln  Pro Tyr Ser Val Lys  Thr Lys Thr
    1010                1015                1020

Leu Phe  Thr His Ser Ile Lys  Asn Gly Asn Phe Val  Ala Trp Asn
    1025                1030                1035

Gly Glu  Glu Asp Leu Gly Arg  Ile Val Lys Met Leu  Lys Gln Asn
    1040                1045                1050

Lys Asn  Thr Ile His Phe Thr  Arg Phe Ser Phe Asp  Arg Lys Glu
    1055                1060                1065

Gly Leu  Phe Asp Ile Gln Pro  Leu Lys Ala Ser Thr  Gly Leu Val
    1070                1075                1080

Pro Arg  Lys Ala Gly Leu Asp  Val Val Lys Tyr Gly  Gly Tyr Asp
    1085                1090                1095

Lys Ser  Thr Ala Ala Tyr Tyr  Leu Leu Val Arg Phe  Thr Leu Glu
    1100                1105                1110

Asp Lys  Lys Thr Gln His Lys  Leu Met Met Ile Pro  Val Glu Gly
```

1115 1120 1125

Leu Tyr Lys Ala Arg Ile Asp His Asp Lys Glu Phe Leu Thr Asp
1130 1135 1140

Tyr Ala Gln Thr Thr Ile Ser Glu Ile Leu Gln Lys Asp Lys Gln
1145 1150 1155

Lys Val Ile Asn Ile Met Phe Pro Met Gly Thr Arg His Ile Lys
1160 1165 1170

Leu Asn Ser Met Ile Ser Ile Asp Gly Phe Tyr Leu Ser Ile Gly
1175 1180 1185

Gly Lys Ser Ser Lys Gly Lys Ser Val Leu Cys His Ala Met Val
1190 1195 1200

Pro Leu Ile Val Pro His Lys Ile Glu Cys Tyr Ile Lys Ala Met
1205 1210 1215

Glu Ser Phe Ala Arg Lys Phe Lys Glu Asn Asn Lys Leu Arg Ile
1220 1225 1230

Val Glu Lys Phe Asp Lys Ile Thr Val Glu Asp Asn Leu Asn Leu
1235 1240 1245

Tyr Glu Leu Phe Leu Gln Lys Leu Gln His Asn Pro Tyr Asn Lys
1250 1255 1260

Phe Phe Ser Thr Gln Phe Asp Val Leu Thr Asn Gly Arg Ser Thr
1265 1270 1275

Phe Thr Lys Leu Ser Pro Glu Glu Gln Val Gln Thr Leu Leu Asn
1280 1285 1290

Ile Leu Ser Ile Phe Lys Thr Cys Arg Ser Ser Gly Cys Asp Leu
1295 1300 1305

Lys Ser Ile Asn Gly Ser Ala Gln Ala Ala Arg Ile Met Ile Ser
1310 1315 1320

Ala Asp Leu Thr Gly Leu Ser Lys Lys Tyr Ser Asp Ile Arg Leu
1325 1330 1335

Val Glu Gln Ser Ala Ser Gly Leu Phe Val Ser Lys Ser Gln Asn
1340 1345 1350

Leu Leu Glu Tyr Leu
1355

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<400> 320

Met Thr Lys Lys Glu Gln Pro Tyr Asn Ile Gly Leu Asp Ile Gly Thr
1 5 10 15

Ser Ser Val Gly Trp Ala Val Thr Asn Asp Asn Tyr Asp Leu Leu Asn
20 25 30

Ile Lys Lys Lys Asn Leu Trp Gly Val Arg Leu Phe Glu Glu Ala Gln
35 40 45

Thr Ala Lys Glu Thr Arg Leu Asn Arg Ser Thr Arg Arg Arg Tyr Arg
50 55 60

Arg Arg Lys Asn Arg Ile Asn Trp Leu Asn Glu Ile Phe Ser Glu Glu
65 70 75 80

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

Val Ser Lys Lys Asp Pro Asp Arg Lys Arg Asp Lys Tyr Asn Leu Phe
100 105 110

Ile Asp Gly Pro Tyr Thr Asp Lys Glu Tyr Tyr Arg Glu Phe Pro Thr
115 120 125

Ile Phe His Leu Arg Lys Glu Leu Ile Leu Asn Lys Asp Lys Ala Asp
130 135 140

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

Asn Phe Thr Tyr Glu His Gln Lys Phe Asn Ile Ser Asn Leu Asn Asn
165 170 175

Asn Leu Ser Lys Glu Leu Ile Glu Leu Asn Gln Gln Leu Ile Lys Tyr
180 185 190

Asp Ile Ser Phe Pro Asp Asp Cys Asp Trp Asn His Ile Ser Asp Ile
195 200 205

Leu Ile Gly Arg Gly Asn Ala Thr Gln Lys Ser Ser Asn Ile Leu Lys
210 215 220

Asp Phe Thr Leu Asp Lys Glu Thr Lys Lys Leu Leu Lys Glu Val Ile
225 230 235 240

Asn Leu Ile Leu Gly Asn Val Ala His Leu Asn Thr Ile Phe Lys Thr
245 250 255

```
Ser Leu Thr Lys Asp Glu Glu Lys Leu Asn Phe Ser Gly Lys Asp Ile
            260                 265                 270

Glu Ser Lys Leu Asp Asp Leu Asp Ser Ile Leu Asp Asp Asp Gln Phe
        275                 280                 285

Thr Val Leu Asp Ala Ala Asn Arg Ile Tyr Ser Thr Ile Thr Leu Asn
    290                 295                 300

Glu Ile Leu Asn Gly Glu Ser Tyr Phe Ser Met Ala Lys Val Asn Gln
305                 310                 315                 320

Tyr Glu Asn His Ala Ile Asp Leu Cys Lys Leu Arg Asp Met Trp His
                325                 330                 335

Thr Thr Lys Asn Glu Glu Ala Val Glu Gln Ser Arg Gln Ala Tyr Asp
            340                 345                 350

Asp Tyr Ile Asn Lys Pro Lys Tyr Gly Thr Lys Glu Leu Tyr Thr Ser
        355                 360                 365

Leu Lys Lys Phe Leu Lys Val Ala Leu Pro Thr Asn Leu Ala Lys Glu
    370                 375                 380

Ala Glu Glu Lys Ile Ser Lys Gly Thr Tyr Leu Val Lys Pro Arg Asn
385                 390                 395                 400

Ser Glu Asn Gly Val Val Pro Tyr Gln Leu Asn Lys Ile Glu Met Glu
                405                 410                 415

Lys Ile Ile Asp Asn Gln Ser Gln Tyr Tyr Pro Phe Leu Lys Glu Asn
            420                 425                 430

Lys Glu Lys Leu Leu Ser Ile Leu Ser Phe Arg Ile Pro Tyr Tyr Val
        435                 440                 445

Gly Pro Leu Gln Ser Ala Glu Lys Asn Pro Phe Ala Trp Met Glu Arg
    450                 455                 460

Lys Ser Asn Gly His Ala Arg Pro Trp Asn Phe Asp Glu Ile Val Asp
465                 470                 475                 480

Arg Glu Lys Ser Ser Asn Lys Phe Ile Arg Arg Met Thr Val Thr Asp
                485                 490                 495

Ser Tyr Leu Val Gly Glu Pro Val Leu Pro Lys Asn Ser Leu Ile Tyr
            500                 505                 510

Gln Arg Tyr Glu Val Leu Asn Glu Leu Asn Asn Ile Arg Ile Thr Glu
        515                 520                 525
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```
Asn Leu Lys Thr Asn Pro Ile Gly Ser Arg Leu Thr Val Glu Thr Lys
    530                 535                 540

Gln Arg Ile Tyr Asn Glu Leu Phe Lys Lys Tyr Lys Lys Val Thr Val
545                 550                 555                 560

Lys Lys Leu Thr Lys Trp Leu Ile Ala Gln Gly Tyr Tyr Lys Asn Pro
                565                 570                 575

Ile Leu Ile Gly Leu Ser Gln Lys Asp Glu Phe Asn Ser Thr Leu Thr
            580                 585                 590

Thr Tyr Leu Asp Met Lys Lys Ile Phe Gly Ser Ser Phe Met Glu Asp
        595                 600                 605

Asn Lys Asn Tyr Asp Gln Ile Glu Glu Leu Ile Glu Trp Leu Thr Ile
    610                 615                 620

Phe Glu Asp Lys Gln Ile Leu Asn Glu Lys Leu His Ser Ser Lys Tyr
625                 630                 635                 640

Ser Tyr Thr Pro Asp Gln Ile Lys Lys Ile Ser Asn Met Arg Tyr Lys
                645                 650                 655

Gly Trp Gly Arg Leu Ser Lys Lys Ile Leu Met Asp Ile Thr Thr Glu
            660                 665                 670

Thr Asn Thr Pro Gln Leu Leu Gln Leu Ser Asn Tyr Ser Ile Leu Asp
        675                 680                 685

Leu Met Trp Ala Thr Asn Asn Asn Phe Ile Ser Ile Met Ser Asn Asp
    690                 695                 700

Lys Tyr Asp Phe Lys Asn Tyr Ile Glu Asn His Asn Leu Asn Lys Asn
705                 710                 715                 720

Glu Asp Gln Asn Ile Ser Asp Leu Val Asn Asp Ile His Val Ser Pro
                725                 730                 735

Ala Leu Lys Arg Gly Ile Thr Gln Ser Ile Lys Ile Val Gln Glu Ile
            740                 745                 750

Val Lys Phe Met Gly His Ala Pro Lys His Ile Phe Ile Glu Val Thr
        755                 760                 765

Arg Glu Thr Lys Lys Ser Glu Ile Thr Thr Ser Arg Glu Lys Arg Ile
    770                 775                 780

Lys Arg Leu Gln Ser Lys Leu Leu Asn Lys Ala Asn Asp Phe Lys Pro
785                 790                 795                 800
```

```
Gln Leu Arg Glu Tyr Leu Val Pro Asn Lys Lys Ile Gln Glu Glu Leu
                805                 810                 815

Lys Lys His Lys Asn Asp Leu Ser Ser Glu Arg Ile Met Leu Tyr Phe
            820                 825                 830

Leu Gln Asn Gly Lys Ser Leu Tyr Ser Glu Glu Ser Leu Asn Ile Asn
        835                 840                 845

Lys Leu Ser Asp Tyr Gln Val Asp His Ile Leu Pro Arg Thr Tyr Ile
    850                 855                 860

Pro Asp Asp Ser Leu Glu Asn Lys Ala Leu Val Leu Ala Lys Glu Asn
865                 870                 875                 880

Gln Arg Lys Ala Asp Asp Leu Leu Leu Asn Ser Asn Val Ile Asp Arg
                885                 890                 895

Asn Leu Glu Arg Trp Thr Tyr Met Leu Asn Asn Asn Met Ile Gly Leu
            900                 905                 910

Lys Lys Phe Lys Asn Leu Thr Arg Arg Val Ile Thr Asp Lys Asp Lys
        915                 920                 925

Leu Gly Phe Ile His Arg Gln Leu Val Gln Thr Ser Gln Met Val Lys
    930                 935                 940

Gly Val Ala Asn Ile Leu Asp Asn Met Tyr Lys Asn Gln Gly Thr Thr
945                 950                 955                 960

Cys Ile Gln Ala Arg Ala Asn Leu Ser Thr Ala Phe Arg Lys Ala Leu
                965                 970                 975

Ser Gly Gln Asp Asp Thr Tyr His Phe Lys His Pro Glu Leu Val Lys
            980                 985                 990

Asn Arg Asn Val Asn Asp Phe His  His Ala Gln Asp Ala  Tyr Leu Ala
        995                 1000                1005

Ser Phe  Leu Gly Thr Tyr Arg  Leu Arg Arg Phe Pro  Thr Asn Glu
    1010                1015                1020

Met Leu  Leu Met Asn Gly Glu  Tyr Asn Lys Phe Tyr  Gly Gln Val
    1025                1030                1035

Lys Glu  Leu Tyr Ser Lys Lys  Lys Lys Leu Pro Asp  Ser Arg Lys
    1040                1045                1050

Asn Gly  Phe Ile Ile Ser Pro  Leu Val Asn Gly Thr  Thr Gln Tyr
    1055                1060                1065
```

```
Asp Arg  Asn Thr Gly Glu Ile  Ile Trp Asn Val Gly  Phe Arg Asp
    1070                1075                1080

Lys Ile  Leu Lys Ile Phe Asn  Tyr His Gln Cys Asn  Val Thr Arg
    1085                1090                1095

Lys Thr  Glu Ile Lys Thr Gly  Gln Phe Tyr Asp Gln  Thr Ile Tyr
    1100                1105                1110

Ser Pro  Lys Asn Pro Lys Tyr  Lys Lys Leu Ile Ala  Gln Lys Lys
    1115                1120                1125

Asp Met  Asp Pro Asn Ile Tyr  Gly Gly Phe Ser Gly  Asp Asn Lys
    1130                1135                1140

Ser Ser  Ile Thr Ile Val Lys  Ile Asp Asn Asn Lys  Ile Lys Pro
    1145                1150                1155

Val Ala  Ile Pro Ile Arg Leu  Ile Asn Asp Leu Lys  Asp Lys Lys
    1160                1165                1170

Thr Leu  Gln Asn Trp Leu Glu  Glu Asn Val Lys His  Lys Lys Ser
    1175                1180                1185

Ile Gln  Ile Ile Lys Asn Asn  Val Pro Ile Gly Gln  Ile Ile Tyr
    1190                1195                1200

Ser Lys  Lys Val Gly Leu Leu  Ser Leu Asn Ser Asp  Arg Glu Val
    1205                1210                1215

Ala Asn  Arg Gln Gln Leu Ile  Leu Pro Pro Glu His  Ser Ala Leu
    1220                1225                1230

Leu Arg  Leu Leu Gln Ile Pro  Asp Glu Asp Leu Asp  Gln Ile Leu
    1235                1240                1245

Ala Phe  Tyr Asp Lys Asn Ile  Leu Val Glu Ile Leu  Gln Glu Leu
    1250                1255                1260

Ile Thr  Lys Met Lys Lys Phe  Tyr Pro Phe Tyr Lys  Gly Glu Arg
    1265                1270                1275

Glu Phe  Leu Ile Ala Asn Ile  Glu Asn Phe Asn Gln  Ala Thr Thr
    1280                1285                1290

Ser Glu  Lys Val Asn Ser Leu  Glu Glu Leu Ile Thr  Leu Leu His
    1295                1300                1305

Ala Asn  Ser Thr Ser Ala His  Leu Ile Phe Asn Asn  Ile Glu Lys
    1310                1315                1320
```

Lys Ala Phe Gly Arg Lys Thr His Gly Leu Thr Leu Asn Asn Thr
    1325   1330   1335

Asp Phe Ile Tyr Gln Ser Val Thr Gly Leu Tyr Glu Thr Arg Ile
    1340   1345   1350

His Ile Glu
    1355

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<211> 1421
<212> PRT
<213> Streptococcus sanguinis

<400> 321

Met Thr Lys Phe Asn Lys Asn Tyr Ser Ile Gly Leu Asp Ile Gly Val
1   5   10   15

Ser Ser Val Gly Tyr Ala Val Val Thr Glu Asp Tyr Arg Val Pro Ala
            20   25   30

Phe Lys Phe Lys Val Leu Gly Asn Thr Glu Lys Glu Lys Ile Lys Lys
        35   40   45

Asn Leu Ile Gly Ser Thr Thr Phe Val Ser Ala Gln Pro Ala Lys Gly
    50   55   60

Thr Arg Val Phe Arg Val Asn Arg Arg Arg Ile Asp Arg Arg Asn His
65   70   75   80

Arg Ile Thr Tyr Leu Arg Asp Ile Phe Gln Lys Glu Ile Glu Lys Val
                85   90   95

Asp Lys Asn Phe Tyr Arg Arg Leu Asp Glu Ser Phe Arg Val Leu Gly
            100   105   110

Asp Lys Ser Glu Asp Leu Gln Ile Lys Gln Pro Phe Phe Gly Asp Lys
        115   120   125

Glu Leu Glu Thr Ala Tyr His Lys Lys Tyr Pro Thr Ile Tyr His Leu
    130   135   140

Arg Lys His Leu Ala Asp Ala Asp Lys Asn Ser Pro Val Ala Asp Ile
145   150   155   160

Arg Glu Val Tyr Met Ala Ile Ser His Ile Leu Lys Tyr Arg Gly His
                165   170   175

Phe Leu Thr Leu Asp Lys Ile Asn Pro Asn Asn Ile Asn Met Gln Asn
            180   185   190

```
Ser Trp Ile Asp Phe Ile Glu Ser Cys Gln Glu Val Phe Asp Leu Glu
        195                 200                 205

Ile Ser Asp Glu Ser Lys Asn Ile Ala Asp Ile Phe Lys Ser Ser Glu
    210                 215                 220

Asn Arg Gln Glu Lys Val Lys Lys Ile Leu Pro Tyr Phe Gln Gln Glu
225                 230                 235                 240

Leu Leu Lys Lys Asp Lys Ser Ile Phe Lys Gln Leu Leu Gln Leu Leu
                245                 250                 255

Phe Gly Leu Lys Thr Lys Phe Lys Asp Cys Phe Glu Leu Glu Glu Glu
            260                 265                 270

Pro Asp Leu Asn Phe Ser Lys Glu Asn Tyr Asp Glu Asn Leu Glu Asn
        275                 280                 285

Phe Leu Gly Ser Leu Glu Glu Asp Phe Ser Asp Val Phe Ala Lys Leu
    290                 295                 300

Lys Val Leu Arg Asp Thr Ile Leu Leu Ser Gly Met Leu Thr Tyr Thr
305                 310                 315                 320

Gly Ala Thr His Ala Arg Phe Ser Ala Thr Met Val Glu Arg Tyr Glu
                325                 330                 335

Glu His Arg Lys Asp Leu Gln Arg Phe Lys Phe Phe Ile Lys Gln Asn
            340                 345                 350

Leu Ser Glu Gln Asp Tyr Leu Asp Ile Phe Gly Arg Lys Thr Gln Asn
        355                 360                 365

Gly Phe Asp Val Asp Lys Glu Thr Lys Gly Tyr Val Gly Tyr Ile Thr
    370                 375                 380

Asn Lys Met Val Leu Thr Asn Pro Gln Lys Gln Lys Thr Ile Gln Gln
385                 390                 395                 400

Asn Phe Tyr Asp Tyr Ile Ser Gly Lys Ile Thr Gly Ile Glu Gly Ala
                405                 410                 415

Glu Tyr Phe Leu Asn Lys Ile Ser Asp Gly Thr Phe Leu Arg Lys Leu
            420                 425                 430

Arg Thr Ser Asp Asn Gly Ala Ile Pro Asn Gln Ile His Ala Tyr Glu
        435                 440                 445

Leu Glu Lys Ile Ile Glu Arg Gln Gly Lys Asp Tyr Pro Phe Leu Leu
    450                 455                 460
```

```
Glu Asn Lys Asp Lys Leu Leu Ser Ile Leu Thr Phe Lys Ile Pro Tyr
465                 470                 475                 480

Tyr Val Gly Pro Leu Ala Lys Gly Ser Asn Ser Arg Phe Ala Trp Ile
                485                 490                 495

Lys Arg Ala Thr Ser Ser Asp Ile Leu Asp Asp Asn Asp Glu Asp Thr
            500                 505                 510

Arg Asn Gly Lys Ile Arg Pro Trp Asn Tyr Gln Lys Leu Ile Asn Met
        515                 520                 525

Asp Glu Thr Arg Asp Ala Phe Ile Thr Asn Leu Ile Gly Asn Asp Ile
    530                 535                 540

Ile Leu Leu Asn Glu Lys Val Leu Pro Lys Arg Ser Leu Ile Tyr Glu
545                 550                 555                 560

Glu Val Met Leu Gln Asn Glu Leu Thr Arg Val Lys Tyr Lys Asp Lys
                565                 570                 575

Tyr Gly Lys Ala His Phe Phe Asp Ser Glu Leu Arg Gln Asn Ile Ile
            580                 585                 590

Asn Gly Leu Phe Lys Asn Asn Ser Lys Arg Val Asn Ala Lys Ser Leu
        595                 600                 605

Ile Lys Tyr Leu Ser Asp Asn His Lys Asp Leu Asn Ala Ile Glu Ile
    610                 615                 620

Val Ser Gly Val Glu Lys Gly Lys Ser Phe Asn Ser Thr Leu Lys Thr
625                 630                 635                 640

Tyr Asn Asp Leu Lys Thr Ile Phe Ser Glu Glu Leu Leu Asp Ser Glu
                645                 650                 655

Ile Tyr Gln Lys Glu Leu Glu Glu Ile Ile Lys Val Ile Thr Val Phe
            660                 665                 670

Asp Asp Lys Lys Ser Ile Lys Asn Tyr Leu Thr Lys Phe Phe Gly His
        675                 680                 685

Leu Glu Ile Leu Asp Glu Glu Lys Ile Asn Gln Leu Ser Lys Leu Arg
    690                 695                 700

Tyr Ser Gly Trp Gly Arg Tyr Ser Ala Lys Leu Leu Leu Asp Ile Arg
705                 710                 715                 720

Asp Glu Asp Thr Gly Phe Asn Leu Leu Gln Phe Leu Arg Asn Asp Glu
                725                 730                 735
```

```
Glu Asn Arg Asn Leu Thr Lys Leu Ile Ser Asp Asn Thr Leu Ser Phe
            740                 745                 750

Glu Pro Lys Ile Lys Asp Ile Gln Ser Lys Ser Thr Ile Glu Asp Asp
        755                 760                 765

Ile Phe Asp Glu Ile Lys Lys Leu Ala Gly Ser Pro Ala Ile Lys Arg
    770                 775                 780

Gly Ile Leu Asn Ser Ile Lys Ile Val Asp Glu Leu Val Gln Ile Ile
785                 790                 795                 800

Gly Tyr Pro Pro His Asn Ile Val Ile Glu Met Ala Arg Glu Asn Met
                805                 810                 815

Thr Thr Glu Glu Gly Gln Lys Lys Ala Lys Thr Arg Lys Thr Lys Leu
            820                 825                 830

Glu Ser Ala Leu Lys Asn Ile Glu Asn Ser Leu Leu Glu Asn Gly Lys
        835                 840                 845

Val Pro His Ser Asp Glu Gln Leu Gln Ser Glu Lys Leu Tyr Leu Tyr
    850                 855                 860

Tyr Leu Gln Asn Gly Lys Asp Met Tyr Thr Leu Asp Lys Thr Gly Ser
865                 870                 875                 880

Pro Ala Pro Leu Tyr Leu Asp Gln Leu Asp Gln Tyr Glu Val Asp His
                885                 890                 895

Ile Ile Pro Tyr Ser Phe Leu Pro Ile Asp Ser Ile Asp Asn Lys Val
            900                 905                 910

Leu Thr His Arg Glu Asn Asn Gln Gln Lys Leu Asn Asn Ile Pro Asp
        915                 920                 925

Lys Glu Thr Val Ala Asn Met Lys Pro Phe Trp Glu Lys Leu Tyr Asn
    930                 935                 940

Ala Lys Leu Ile Ser Gln Thr Lys Tyr Gln Arg Leu Thr Thr Ser Glu
945                 950                 955                 960

Arg Thr Pro Asp Gly Val Leu Thr Glu Ser Met Lys Ala Gly Phe Ile
                965                 970                 975

Glu Arg Gln Leu Val Glu Thr Arg Gln Ile Ile Lys His Val Ala Arg
            980                 985                 990

Ile Leu Asp Asn Arg Phe Ser Asp  Thr Lys Ile Ile Thr  Leu Lys Ser
        995                 1000                1005
```

```
Gln Leu  Ile Thr Asn Phe Arg  Asn Thr Phe His Ile  Ala Lys Ile
    1010                1015                1020

Arg Glu  Leu Asn Asp Tyr His  His Ala His Asp Ala  Tyr Leu Ala
    1025                1030                1035

Val Val  Val Gly Gln Thr Leu  Leu Lys Val Tyr Pro  Lys Leu Ala
    1040                1045                1050

Pro Glu  Leu Ile Tyr Gly His  His Ala His Phe Asn  Arg His Glu
    1055                1060                1065

Glu Asn  Lys Ala Thr Leu Arg  Lys His Leu Tyr Ser  Asn Ile Met
    1070                1075                1080

Arg Phe  Phe Asn Asn Pro Asp  Ser Lys Val Ser Lys  Asp Ile Trp
    1085                1090                1095

Asp Cys  Asn Arg Asp Leu Pro  Ile Ile Lys Asp Val  Ile Tyr Asn
    1100                1105                1110

Ser Gln  Ile Asn Phe Val Lys  Arg Thr Met Ile Lys  Lys Gly Ala
    1115                1120                1125

Phe Tyr  Asn Gln Asn Pro Val  Gly Lys Phe Asn Lys  Gln Leu Ala
    1130                1135                1140

Ala Asn  Asn Arg Tyr Pro Leu  Lys Thr Lys Ala Leu  Cys Leu Asp
    1145                1150                1155

Thr Ser  Ile Tyr Gly Gly Tyr  Gly Pro Met Asn Ser  Ala Leu Ser
    1160                1165                1170

Ile Ile  Ile Ile Ala Glu Arg  Phe Asn Glu Lys Lys  Gly Lys Ile
    1175                1180                1185

Glu Thr  Val Lys Glu Phe His  Asp Ile Phe Ile Ile  Asp Tyr Glu
    1190                1195                1200

Lys Phe  Asn Asn Asn Pro Phe  Gln Phe Leu Asn Asp  Thr Ser Glu
    1205                1210                1215

Asn Gly  Phe Leu Lys Lys Asn  Asn Ile Asn Arg Val  Leu Gly Phe
    1220                1225                1230

Tyr Arg  Ile Pro Lys Tyr Ser  Leu Met Gln Lys Ile  Asp Gly Thr
    1235                1240                1245

Arg Met  Leu Phe Glu Ser Lys  Ser Asn Leu His Lys  Ala Thr Gln
    1250                1255                1260
```

```
Phe Lys  Leu Thr Lys Thr Gln  Asn Glu Leu Phe Phe  His Met Lys
    1265                 1270                 1275


Arg Leu  Leu Thr Lys Ser Asn  Leu Met Asp Leu Lys  Ser Lys Ser
    1280                 1285                 1290


Ala Ile  Lys Glu Ser Gln Asn  Phe Ile Leu Lys His  Lys Glu Glu
    1295                 1300                 1305


Phe Asp  Asn Ile Ser Asn Gln  Leu Ser Ala Phe Ser  Gln Lys Met
    1310                 1315                 1320


Leu Gly  Asn Thr Thr Ser Leu  Lys Asn Leu Ile Lys  Gly Tyr Asn
    1325                 1330                 1335


Glu Arg  Lys Ile Lys Glu Ile  Asp Ile Arg Asp Glu  Thr Ile Lys
    1340                 1345                 1350


Tyr Phe  Tyr Asp Asn Phe Ile  Lys Met Phe Ser Phe  Val Lys Ser
    1355                 1360                 1365


Gly Ala  Pro Lys Asp Ile Asn  Asp Phe Phe Asp Asn  Lys Cys Thr
    1370                 1375                 1380


Val Ala  Arg Met Arg Pro Lys  Pro Asp Lys Lys Leu  Leu Asn Ala
    1385                 1390                 1395


Thr Leu  Ile His Gln Ser Ile  Thr Gly Leu Tyr Glu  Thr Arg Ile
    1400                 1405                 1410


Asp Leu  Ser Lys Leu Gly Glu  Asp
    1415                 1420


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<211>  1338
<212>  PRT
<213>  Coprococcus catus

<400>  322

Met Lys Gln Glu Tyr Phe Leu Gly Leu Asp Met Gly Thr Gly Ser Leu
1               5                  10                  15


Gly Trp Ala Val Thr Asp Ser Thr Tyr Gln Val Met Arg Lys His Gly
            20                  25                  30


Lys Ala Leu Trp Gly Thr Arg Leu Phe Glu Ser Ala Ser Thr Ala Glu
        35                  40                  45


Glu Arg Arg Met Phe Arg Thr Ala Arg Arg Arg Leu Asp Arg Arg Asn
    50                  55                  60
```

```
Trp Arg Ile Gln Val Leu Gln Glu Ile Phe Ser Glu Glu Ile Ser Lys
65                  70                  75                  80

Val Asp Pro Gly Phe Phe Leu Arg Met Lys Glu Ser Lys Tyr Tyr Pro
                85                  90                  95

Glu Asp Lys Arg Asp Ala Glu Gly Asn Cys Pro Glu Leu Pro Tyr Ala
            100                 105                 110

Leu Phe Val Asp Asp Asn Tyr Thr Asp Lys Asn Tyr His Lys Asp Tyr
        115                 120                 125

Pro Thr Ile Tyr His Leu Arg Lys Met Leu Met Glu Thr Thr Glu Ile
    130                 135                 140

Pro Asp Ile Arg Leu Val Tyr Leu Val Leu His His Met Met Lys His
145                 150                 155                 160

Arg Gly His Phe Leu Leu Ser Gly Asp Ile Ser Gln Ile Lys Glu Phe
                165                 170                 175

Lys Ser Thr Phe Glu Gln Leu Ile Gln Asn Ile Gln Asp Glu Glu Leu
            180                 185                 190

Glu Trp His Ile Ser Leu Asp Asp Ala Ala Ile Gln Phe Val Glu His
        195                 200                 205

Val Leu Lys Asp Arg Asn Leu Thr Arg Ser Thr Lys Lys Ser Arg Leu
    210                 215                 220

Ile Lys Gln Leu Asn Ala Lys Ser Ala Cys Glu Lys Ala Ile Leu Asn
225                 230                 235                 240

Leu Leu Ser Gly Gly Thr Val Lys Leu Ser Asp Ile Phe Asn Asn Lys
                245                 250                 255

Glu Leu Asp Glu Ser Glu Arg Pro Lys Val Ser Phe Ala Asp Ser Gly
            260                 265                 270

Tyr Asp Asp Tyr Ile Gly Ile Val Glu Ala Glu Leu Ala Glu Gln Tyr
        275                 280                 285

Tyr Ile Ile Ala Ser Ala Lys Ala Val Tyr Asp Trp Ser Val Leu Val
    290                 295                 300

Glu Ile Leu Gly Asn Ser Val Ser Ile Ser Glu Ala Lys Ile Lys Val
305                 310                 315                 320

Tyr Gln Lys His Gln Ala Asp Leu Lys Thr Leu Lys Lys Ile Val Arg
                325                 330                 335
```

```
Gln Tyr Met Thr Lys Glu Asp Tyr Lys Arg Val Phe Val Asp Thr Glu
            340                 345                 350

Glu Lys Leu Asn Asn Tyr Ser Ala Tyr Ile Gly Met Thr Lys Lys Asn
        355                 360                 365

Gly Lys Lys Val Asp Leu Lys Ser Lys Gln Cys Thr Gln Ala Asp Phe
    370                 375                 380

Tyr Asp Phe Leu Lys Lys Asn Val Ile Lys Val Ile Asp His Lys Glu
385                 390                 395                 400

Ile Thr Gln Glu Ile Glu Ser Glu Ile Glu Lys Glu Asn Phe Leu Pro
                405                 410                 415

Lys Gln Val Thr Lys Asp Asn Gly Val Ile Pro Tyr Gln Val His Asp
            420                 425                 430

Tyr Glu Leu Lys Lys Ile Leu Asp Asn Leu Gly Thr Arg Met Pro Phe
        435                 440                 445

Ile Lys Glu Asn Ala Glu Lys Ile Gln Gln Leu Phe Glu Phe Arg Ile
    450                 455                 460

Pro Tyr Tyr Val Gly Pro Leu Asn Arg Val Asp Asp Gly Lys Asp Gly
465                 470                 475                 480

Lys Phe Thr Trp Ser Val Arg Lys Ser Asp Ala Arg Ile Tyr Pro Trp
                485                 490                 495

Asn Phe Thr Glu Val Ile Asp Val Glu Ala Ser Ala Glu Lys Phe Ile
            500                 505                 510

Arg Arg Met Thr Asn Lys Cys Thr Tyr Leu Val Gly Glu Asp Val Leu
        515                 520                 525

Pro Lys Asp Ser Leu Val Tyr Ser Lys Phe Met Val Leu Asn Glu Leu
    530                 535                 540

Asn Asn Leu Arg Leu Asn Gly Glu Lys Ile Ser Val Glu Leu Lys Gln
545                 550                 555                 560

Arg Ile Tyr Glu Glu Leu Phe Cys Lys Tyr Arg Lys Val Thr Arg Lys
                565                 570                 575

Lys Leu Glu Arg Tyr Leu Val Ile Glu Gly Ile Ala Lys Lys Gly Val
            580                 585                 590

Glu Ile Thr Gly Ile Asp Gly Asp Phe Lys Ala Ser Leu Thr Ala Tyr
        595                 600                 605
```

```
His Asp Phe Lys Glu Arg Leu Thr Asp Val Gln Leu Ser Gln Arg Ala
    610                 615                 620

Lys Glu Ala Ile Val Leu Asn Val Val Leu Phe Gly Asp Asp Lys Lys
625                 630                 635                 640

Leu Leu Lys Gln Arg Leu Ser Lys Met Tyr Pro Asn Leu Thr Thr Gly
                645                 650                 655

Gln Leu Lys Gly Ile Cys Ser Leu Ser Tyr Gln Gly Trp Gly Arg Leu
            660                 665                 670

Ser Lys Thr Phe Leu Glu Glu Ile Thr Val Pro Ala Pro Gly Thr Gly
        675                 680                 685

Glu Val Trp Asn Ile Met Thr Ala Leu Trp Gln Thr Asn Asp Asn Leu
    690                 695                 700

Met Gln Leu Leu Ser Arg Asn Tyr Gly Phe Thr Asn Glu Val Glu Glu
705                 710                 715                 720

Phe Asn Thr Leu Lys Lys Glu Thr Asp Leu Ser Tyr Lys Thr Val Asp
                725                 730                 735

Glu Leu Tyr Val Ser Pro Ala Val Lys Arg Gln Ile Trp Gln Thr Leu
            740                 745                 750

Lys Val Val Lys Glu Ile Gln Lys Val Met Gly Asn Ala Pro Lys Arg
        755                 760                 765

Val Phe Val Glu Met Ala Arg Glu Lys Gln Glu Gly Lys Arg Ser Asp
    770                 775                 780

Ser Arg Lys Lys Gln Leu Val Glu Leu Tyr Arg Ala Cys Lys Asn Glu
785                 790                 795                 800

Glu Arg Asp Trp Ile Thr Glu Leu Asn Ala Gln Ser Asp Gln Gln Leu
                805                 810                 815

Arg Ser Asp Lys Leu Phe Leu Tyr Tyr Ile Gln Lys Gly Arg Cys Met
            820                 825                 830

Tyr Ser Gly Glu Thr Ile Gln Leu Asp Glu Leu Trp Asp Asn Thr Lys
        835                 840                 845

Tyr Asp Ile Asp His Ile Tyr Pro Gln Ser Lys Thr Met Asp Asp Ser
    850                 855                 860

Leu Asn Asn Arg Val Leu Val Lys Lys Asn Tyr Asn Ala Ile Lys Ser
865                 870                 875                 880
```

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Asp Thr Tyr Pro Leu Ser Leu Asp Ile Gln Lys Lys Met Met Ser Phe
                885                 890                 895

Trp Lys Met Leu Gln Gln Gln Gly Phe Ile Thr Lys Glu Lys Tyr Val
            900                 905                 910

Arg Leu Val Arg Ser Asp Glu Leu Ser Ala Asp Glu Leu Ala Gly Phe
        915                 920                 925

Ile Glu Arg Gln Ile Val Glu Thr Arg Gln Ser Thr Lys Ala Val Ala
    930                 935                 940

Thr Ile Leu Lys Glu Ala Leu Pro Asp Thr Glu Ile Val Tyr Val Lys
945                 950                 955                 960

Ala Gly Asn Val Ser Asn Phe Arg Gln Thr Tyr Glu Leu Leu Lys Val
                965                 970                 975

Arg Glu Met Asn Asp Leu His His Ala Lys Asp Ala Tyr Leu Asn Ile
            980                 985                 990

Val Val Gly Asn Ala Tyr Phe Val  Lys Phe Thr Lys Asn  Ala Ala Trp
        995                 1000                1005

Phe Ile  Arg Asn Asn Pro Gly  Arg Ser Tyr Asn Leu  Lys Arg Met
    1010                1015                1020

Phe Glu  Phe Asp Ile Glu Arg  Ser Gly Glu Ile Ala  Trp Lys Ala
    1025                1030                1035

Gly Asn  Lys Gly Ser Ile Val  Thr Val Lys Lys Val  Met Gln Lys
    1040                1045                1050

Asn Asn  Ile Leu Val Thr Arg  Lys Ala Tyr Glu Val  Lys Gly Gly
    1055                1060                1065

Leu Phe  Asp Gln Gln Ile Met  Lys Lys Gly Lys Gly  Gln Val Pro
    1070                1075                1080

Ile Lys  Gly Asn Asp Glu Arg  Leu Ala Asp Ile Glu  Lys Tyr Gly
    1085                1090                1095

Gly Tyr  Asn Lys Ala Ala Gly  Thr Tyr Phe Met Leu  Val Lys Ser
    1100                1105                1110

Leu Asp  Lys Lys Gly Lys Glu  Ile Arg Thr Ile Glu  Phe Val Pro
    1115                1120                1125

Leu Tyr  Leu Lys Asn Gln Ile  Glu Ile Asn His Glu  Ser Ala Ile
    1130                1135                1140
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Gln Tyr  Leu Ala Gln Glu Arg  Gly Leu Asn Ser Pro  Glu Ile Leu
    1145                1150                1155


Leu Ser  Lys Ile Lys Ile Asp  Thr Leu Phe Lys Val  Asp Gly Phe
    1160                1165                1170


Lys Met  Trp Leu Ser Gly Arg  Thr Gly Asn Gln Leu  Ile Phe Lys
    1175                1180                1185


Gly Ala  Asn Gln Leu Ile Leu  Ser His Gln Glu Ala  Ala Ile Leu
    1190                1195                1200


Lys Gly  Val Val Lys Tyr Val  Asn Arg Lys Asn Glu  Asn Lys Asp
    1205                1210                1215


Ala Lys  Leu Ser Glu Arg Asp  Gly Met Thr Glu Glu  Lys Leu Leu
    1220                1225                1230


Gln Leu  Tyr Asp Thr Phe Leu  Asp Lys Leu Ser Asn  Thr Val Tyr
    1235                1240                1245


Ser Ile  Arg Leu Ser Ala Gln  Ile Lys Thr Leu Thr  Glu Lys Arg
    1250                1255                1260


Ala Lys  Phe Ile Gly Leu Ser  Asn Glu Asp Gln Cys  Ile Val Leu
    1265                1270                1275


Asn Glu  Ile Leu His Met Phe  Gln Cys Gln Ser Gly  Ser Ala Asn
    1280                1285                1290


Leu Lys  Leu Ile Gly Gly Pro  Gly Ser Ala Gly Ile  Leu Val Met
    1295                1300                1305


Asn Asn  Asn Ile Thr Ala Cys  Lys Gln Ile Ser Val  Ile Asn Gln
    1310                1315                1320


Ser Pro  Thr Gly Ile Tyr Glu  Lys Glu Ile Asp Leu  Ile Lys Leu
    1325                1330                1335


<210>  323
<211>  1345
<212>  PRT
<213>  Streptococcus mutans

<400>  323

Met Lys Lys Pro Tyr Ser Ile Gly Leu Asp Ile Gly Thr Asn Ser Val
1               5                  10                  15


Gly Trp Ala Val Val Thr Asp Asp Tyr Lys Val Pro Ala Lys Lys Met
            20                  25                  30


Lys Val Leu Gly Asn Thr Asp Lys Ser His Ile Glu Lys Asn Leu Leu
```

```
        35                  40                  45

Gly Ala Leu Leu Phe Asp Ser Gly Asn Thr Ala Glu Asp Arg Arg Leu
    50                  55                  60

Lys Arg Thr Ala Arg Arg Arg Tyr Thr Arg Arg Arg Asn Arg Ile Leu
65                  70                  75                  80

Tyr Leu Gln Glu Ile Phe Ser Glu Glu Met Gly Lys Val Asp Asp Ser
                85                  90                  95

Phe Phe His Arg Leu Glu Asp Ser Phe Leu Val Thr Glu Asp Lys Arg
            100                 105                 110

Gly Glu Arg His Pro Ile Phe Gly Asn Leu Glu Glu Glu Val Lys Tyr
        115                 120                 125

His Glu Asn Phe Pro Thr Ile Tyr His Leu Arg Gln Tyr Leu Ala Asp
    130                 135                 140

Asn Pro Glu Lys Val Asp Leu Arg Leu Val Tyr Leu Ala Leu Ala His
145                 150                 155                 160

Ile Ile Lys Phe Arg Gly His Phe Leu Ile Glu Gly Lys Phe Asp Thr
                165                 170                 175

Arg Asn Asn Asp Val Gln Arg Leu Phe Gln Glu Phe Leu Ala Val Tyr
            180                 185                 190

Asp Asn Thr Phe Glu Asn Ser Ser Leu Gln Glu Gln Asn Val Gln Val
        195                 200                 205

Glu Glu Ile Leu Thr Asp Lys Ile Ser Lys Ser Ala Lys Lys Asp Arg
    210                 215                 220

Val Leu Lys Leu Phe Pro Asn Glu Lys Ser Asn Gly Arg Phe Ala Glu
225                 230                 235                 240

Phe Leu Lys Leu Ile Val Gly Asn Gln Ala Asp Phe Lys Lys His Phe
                245                 250                 255

Glu Leu Glu Glu Lys Ala Pro Leu Gln Phe Ser Lys Asp Thr Tyr Glu
            260                 265                 270

Glu Glu Leu Glu Val Leu Leu Ala Gln Ile Gly Asp Asn Tyr Ala Glu
        275                 280                 285

Leu Phe Leu Ser Ala Lys Lys Leu Tyr Asp Ser Ile Leu Leu Ser Gly
    290                 295                 300

Ile Leu Thr Val Thr Asp Val Gly Thr Lys Ala Pro Leu Ser Ala Ser
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305 310 315 320

Met Ile Gln Arg Tyr Asn Glu His Gln Met Asp Leu Ala Gln Leu Lys
325 330 335

Gln Phe Ile Arg Gln Lys Leu Ser Asp Lys Tyr Asn Glu Val Phe Ser
340 345 350

Asp Val Ser Lys Asp Gly Tyr Ala Gly Tyr Ile Asp Gly Lys Thr Asn
355 360 365

Gln Glu Ala Phe Tyr Lys Tyr Leu Lys Gly Leu Leu Asn Lys Ile Glu
370 375 380

Gly Ser Gly Tyr Phe Leu Asp Lys Ile Glu Arg Glu Asp Phe Leu Arg
385 390 395 400

Lys Gln Arg Thr Phe Asp Asn Gly Ser Ile Pro His Gln Ile His Leu
405 410 415

Gln Glu Met Arg Ala Ile Ile Arg Arg Gln Ala Glu Phe Tyr Pro Phe
420 425 430

Leu Ala Asp Asn Gln Asp Arg Ile Glu Lys Leu Leu Thr Phe Arg Ile
435 440 445

Pro Tyr Tyr Val Gly Pro Leu Ala Arg Gly Lys Ser Asp Phe Ala Trp
450 455 460

Leu Ser Arg Lys Ser Ala Asp Lys Ile Thr Pro Trp Asn Phe Asp Glu
465 470 475 480

Ile Val Asp Lys Glu Ser Ser Ala Glu Ala Phe Ile Asn Arg Met Thr
485 490 495

Asn Tyr Asp Leu Tyr Leu Pro Asn Gln Lys Val Leu Pro Lys His Ser
500 505 510

Leu Leu Tyr Glu Lys Phe Thr Val Tyr Asn Glu Leu Thr Lys Val Lys
515 520 525

Tyr Lys Thr Glu Gln Gly Lys Thr Ala Phe Phe Asp Ala Asn Met Lys
530 535 540

Gln Glu Ile Phe Asp Gly Val Phe Lys Val Tyr Arg Lys Val Thr Lys
545 550 555 560

Asp Lys Leu Met Asp Phe Leu Glu Lys Glu Phe Asp Glu Phe Arg Ile
565 570 575

Val Asp Leu Thr Gly Leu Asp Lys Glu Asn Lys Val Phe Asn Ala Ser

580 585 590

Tyr Gly Thr Tyr His Asp Leu Cys Lys Ile Leu Asp Lys Asp Phe Leu
595 600 605

Asp Asn Ser Lys Asn Glu Lys Ile Leu Glu Asp Ile Val Leu Thr Leu
610 615 620

Thr Leu Phe Glu Asp Arg Glu Met Ile Arg Lys Arg Leu Glu Asn Tyr
625 630 635 640

Ser Asp Leu Leu Thr Lys Glu Gln Val Lys Lys Leu Glu Arg Arg His
645 650 655

Tyr Thr Gly Trp Gly Arg Leu Ser Ala Glu Leu Ile His Gly Ile Arg
660 665 670

Asn Lys Glu Ser Arg Lys Thr Ile Leu Asp Tyr Leu Ile Asp Asp Gly
675 680 685

Asn Ser Asn Arg Asn Phe Met Gln Leu Ile Asn Asp Asp Ala Leu Ser
690 695 700

Phe Lys Glu Glu Ile Ala Lys Ala Gln Val Ile Gly Glu Thr Asp Asn
705 710 715 720

Leu Asn Gln Val Val Ser Asp Ile Ala Gly Ser Pro Ala Ile Lys Lys
725 730 735

Gly Ile Leu Gln Ser Leu Lys Ile Val Asp Glu Leu Val Lys Ile Met
740 745 750

Gly His Gln Pro Glu Asn Ile Val Val Glu Met Ala Arg Glu Asn Gln
755 760 765

Phe Thr Asn Gln Gly Arg Arg Asn Ser Gln Gln Arg Leu Lys Gly Leu
770 775 780

Thr Asp Ser Ile Lys Glu Phe Gly Ser Gln Ile Leu Lys Glu His Pro
785 790 795 800

Val Glu Asn Ser Gln Leu Gln Asn Asp Arg Leu Phe Leu Tyr Tyr Leu
805 810 815

Gln Asn Gly Arg Asp Met Tyr Thr Gly Glu Glu Leu Asp Ile Asp Tyr
820 825 830

Leu Ser Gln Tyr Asp Ile Asp His Ile Ile Pro Gln Ala Phe Ile Lys
835 840 845

Asp Asn Ser Ile Asp Asn Arg Val Leu Thr Ser Ser Lys Glu Asn Arg

850 855 860

Gly Lys Ser Asp Asp Val Pro Ser Lys Asp Val Val Arg Lys Met Lys
865 870 875 880

Ser Tyr Trp Ser Lys Leu Leu Ser Ala Lys Leu Ile Thr Gln Arg Lys
885 890 895

Phe Asp Asn Leu Thr Lys Ala Glu Arg Gly Gly Leu Thr Asp Asp Asp
900 905 910

Lys Ala Gly Phe Ile Lys Arg Gln Leu Val Glu Thr Arg Gln Ile Thr
915 920 925

Lys His Val Ala Arg Ile Leu Asp Glu Arg Phe Asn Thr Glu Thr Asp
930 935 940

Glu Asn Asn Lys Lys Ile Arg Gln Val Lys Ile Val Thr Leu Lys Ser
945 950 955 960

Asn Leu Val Ser Asn Phe Arg Lys Glu Phe Glu Leu Tyr Lys Val Arg
965 970 975

Glu Ile Asn Asp Tyr His His Ala His Asp Ala Tyr Leu Asn Ala Val
980 985 990

Ile Gly Lys Ala Leu Leu Gly Val Tyr Pro Gln Leu Glu Pro Glu Phe
995 1000 1005

Val Tyr Gly Asp Tyr Pro His Phe His Gly His Lys Glu Asn Lys
1010 1015 1020

Ala Thr Ala Lys Lys Phe Phe Tyr Ser Asn Ile Met Asn Phe Phe
1025 1030 1035

Lys Lys Asp Asp Val Arg Thr Asp Lys Asn Gly Glu Ile Ile Trp
1040 1045 1050

Lys Lys Asp Glu His Ile Ser Asn Ile Lys Lys Val Leu Ser Tyr
1055 1060 1065

Pro Gln Val Asn Ile Val Lys Lys Val Glu Glu Gln Thr Gly Gly
1070 1075 1080

Phe Ser Lys Glu Ser Ile Leu Pro Lys Gly Asn Ser Asp Lys Leu
1085 1090 1095

Ile Pro Arg Lys Thr Lys Lys Phe Tyr Trp Asp Thr Lys Lys Tyr
1100 1105 1110

Gly Gly Phe Asp Ser Pro Ile Val Ala Tyr Ser Ile Leu Val Ile

1115 1120 1125

Ala Asp Ile Glu Lys Gly Lys Ser Lys Lys Leu Lys Thr Val Lys
1130 1135 1140

Ala Leu Val Gly Val Thr Ile Met Glu Lys Met Thr Phe Glu Arg
1145 1150 1155

Asp Pro Val Ala Phe Leu Glu Arg Lys Gly Tyr Arg Asn Val Gln
1160 1165 1170

Glu Glu Asn Ile Ile Lys Leu Pro Lys Tyr Ser Leu Phe Lys Leu
1175 1180 1185

Glu Asn Gly Arg Lys Arg Leu Leu Ala Ser Ala Arg Glu Leu Gln
1190 1195 1200

Lys Gly Asn Glu Ile Val Leu Pro Asn His Leu Gly Thr Leu Leu
1205 1210 1215

Tyr His Ala Lys Asn Ile His Lys Val Asp Glu Pro Lys His Leu
1220 1225 1230

Asp Tyr Val Asp Lys His Lys Asp Glu Phe Lys Glu Leu Leu Asp
1235 1240 1245

Val Val Ser Asn Phe Ser Lys Lys Tyr Thr Leu Ala Glu Gly Asn
1250 1255 1260

Leu Glu Lys Ile Lys Glu Leu Tyr Ala Gln Asn Asn Gly Glu Asp
1265 1270 1275

Leu Lys Glu Leu Ala Ser Ser Phe Ile Asn Leu Leu Thr Phe Thr
1280 1285 1290

Ala Ile Gly Ala Pro Ala Thr Phe Lys Phe Phe Asp Lys Asn Ile
1295 1300 1305

Asp Arg Lys Arg Tyr Thr Ser Thr Thr Glu Ile Leu Asn Ala Thr
1310 1315 1320

Leu Ile His Gln Ser Ile Thr Gly Leu Tyr Glu Thr Arg Ile Asp
1325 1330 1335

Leu Asn Lys Leu Gly Gly Asp
1340 1345

<210> 324
<211> 1368
<212> PRT
<213> Streptococcus pyogenes

<400> 324

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Met Asp Lys Lys Tyr Ser Ile Gly Leu Asp Ile Gly Thr Asn Ser Val
1               5                  10                  15

Gly Trp Ala Val Ile Thr Asp Glu Tyr Lys Val Pro Ser Lys Lys Phe
            20                  25                  30

Lys Val Leu Gly Asn Thr Asp Arg His Ser Ile Lys Lys Asn Leu Ile
        35                  40                  45

Gly Ala Leu Leu Phe Asp Ser Gly Glu Thr Ala Glu Ala Thr Arg Leu
    50                  55                  60

Lys Arg Thr Ala Arg Arg Arg Tyr Thr Arg Arg Lys Asn Arg Ile Cys
65                  70                  75                  80

Tyr Leu Gln Glu Ile Phe Ser Asn Glu Met Ala Lys Val Asp Asp Ser
                85                  90                  95

Phe Phe His Arg Leu Glu Glu Ser Phe Leu Val Glu Glu Asp Lys Lys
            100                 105                 110

His Glu Arg His Pro Ile Phe Gly Asn Ile Val Asp Glu Val Ala Tyr
        115                 120                 125

His Glu Lys Tyr Pro Thr Ile Tyr His Leu Arg Lys Lys Leu Val Asp
    130                 135                 140

Ser Thr Asp Lys Ala Asp Leu Arg Leu Ile Tyr Leu Ala Leu Ala His
145                 150                 155                 160

Met Ile Lys Phe Arg Gly His Phe Leu Ile Glu Gly Asp Leu Asn Pro
                165                 170                 175

Asp Asn Ser Asp Val Asp Lys Leu Phe Ile Gln Leu Val Gln Thr Tyr
            180                 185                 190

Asn Gln Leu Phe Glu Glu Asn Pro Ile Asn Ala Ser Gly Val Asp Ala
        195                 200                 205

Lys Ala Ile Leu Ser Ala Arg Leu Ser Lys Ser Arg Arg Leu Glu Asn
    210                 215                 220

Leu Ile Ala Gln Leu Pro Gly Glu Lys Lys Asn Gly Leu Phe Gly Asn
225                 230                 235                 240

Leu Ile Ala Leu Ser Leu Gly Leu Thr Pro Asn Phe Lys Ser Asn Phe
                245                 250                 255

Asp Leu Ala Glu Asp Ala Lys Leu Gln Leu Ser Lys Asp Thr Tyr Asp
            260                 265                 270
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```
Asp Asp Leu Asp Asn Leu Leu Ala Gln Ile Gly Asp Gln Tyr Ala Asp
        275                 280                 285

Leu Phe Leu Ala Ala Lys Asn Leu Ser Asp Ala Ile Leu Leu Ser Asp
    290                 295                 300

Ile Leu Arg Val Asn Thr Glu Ile Thr Lys Ala Pro Leu Ser Ala Ser
305                 310                 315                 320

Met Ile Lys Arg Tyr Asp Glu His His Gln Asp Leu Thr Leu Leu Lys
                325                 330                 335

Ala Leu Val Arg Gln Gln Leu Pro Glu Lys Tyr Lys Glu Ile Phe Phe
            340                 345                 350

Asp Gln Ser Lys Asn Gly Tyr Ala Gly Tyr Ile Asp Gly Gly Ala Ser
        355                 360                 365

Gln Glu Glu Phe Tyr Lys Phe Ile Lys Pro Ile Leu Glu Lys Met Asp
    370                 375                 380

Gly Thr Glu Glu Leu Leu Val Lys Leu Asn Arg Glu Asp Leu Leu Arg
385                 390                 395                 400

Lys Gln Arg Thr Phe Asp Asn Gly Ser Ile Pro His Gln Ile His Leu
                405                 410                 415

Gly Glu Leu His Ala Ile Leu Arg Arg Gln Glu Asp Phe Tyr Pro Phe
            420                 425                 430

Leu Lys Asp Asn Arg Glu Lys Ile Glu Lys Ile Leu Thr Phe Arg Ile
        435                 440                 445

Pro Tyr Tyr Val Gly Pro Leu Ala Arg Gly Asn Ser Arg Phe Ala Trp
    450                 455                 460

Met Thr Arg Lys Ser Glu Glu Thr Ile Thr Pro Trp Asn Phe Glu Glu
465                 470                 475                 480

Val Val Asp Lys Gly Ala Ser Ala Gln Ser Phe Ile Glu Arg Met Thr
                485                 490                 495

Asn Phe Asp Lys Asn Leu Pro Asn Glu Lys Val Leu Pro Lys His Ser
            500                 505                 510

Leu Leu Tyr Glu Tyr Phe Thr Val Tyr Asn Glu Leu Thr Lys Val Lys
        515                 520                 525

Tyr Val Thr Glu Gly Met Arg Lys Pro Ala Phe Leu Ser Gly Glu Gln
    530                 535                 540
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Lys Lys Ala Ile Val Asp Leu Leu Phe Lys Thr Asn Arg Lys Val Thr
545                 550                 555                 560

Val Lys Gln Leu Lys Glu Asp Tyr Phe Lys Lys Ile Glu Cys Phe Asp
                565                 570                 575

Ser Val Glu Ile Ser Gly Val Glu Asp Arg Phe Asn Ala Ser Leu Gly
            580                 585                 590

Thr Tyr His Asp Leu Leu Lys Ile Ile Lys Asp Lys Asp Phe Leu Asp
        595                 600                 605

Asn Glu Glu Asn Glu Asp Ile Leu Glu Asp Ile Val Leu Thr Leu Thr
    610                 615                 620

Leu Phe Glu Asp Arg Glu Met Ile Glu Glu Arg Leu Lys Thr Tyr Ala
625                 630                 635                 640

His Leu Phe Asp Asp Lys Val Met Lys Gln Leu Lys Arg Arg Arg Tyr
                645                 650                 655

Thr Gly Trp Gly Arg Leu Ser Arg Lys Leu Ile Asn Gly Ile Arg Asp
            660                 665                 670

Lys Gln Ser Gly Lys Thr Ile Leu Asp Phe Leu Lys Ser Asp Gly Phe
        675                 680                 685

Ala Asn Arg Asn Phe Met Gln Leu Ile His Asp Asp Ser Leu Thr Phe
    690                 695                 700

Lys Glu Asp Ile Gln Lys Ala Gln Val Ser Gly Gln Gly Asp Ser Leu
705                 710                 715                 720

His Glu His Ile Ala Asn Leu Ala Gly Ser Pro Ala Ile Lys Lys Gly
                725                 730                 735

Ile Leu Gln Thr Val Lys Val Val Asp Glu Leu Val Lys Val Met Gly
            740                 745                 750

Arg His Lys Pro Glu Asn Ile Val Ile Glu Met Ala Arg Glu Asn Gln
        755                 760                 765

Thr Thr Gln Lys Gly Gln Lys Asn Ser Arg Glu Arg Met Lys Arg Ile
    770                 775                 780

Glu Glu Gly Ile Lys Glu Leu Gly Ser Gln Ile Leu Lys Glu His Pro
785                 790                 795                 800

Val Glu Asn Thr Gln Leu Gln Asn Glu Lys Leu Tyr Leu Tyr Tyr Leu
                805                 810                 815
```

```
Gln Asn Gly Arg Asp Met Tyr Val Asp Gln Glu Leu Asp Ile Asn Arg
            820                 825                 830

Leu Ser Asp Tyr Asp Val Asp His Ile Val Pro Gln Ser Phe Leu Lys
        835                 840                 845

Asp Asp Ser Ile Asp Asn Lys Val Leu Thr Arg Ser Asp Lys Asn Arg
    850                 855                 860

Gly Lys Ser Asp Asn Val Pro Ser Glu Glu Val Val Lys Lys Met Lys
865                 870                 875                 880

Asn Tyr Trp Arg Gln Leu Leu Asn Ala Lys Leu Ile Thr Gln Arg Lys
                885                 890                 895

Phe Asp Asn Leu Thr Lys Ala Glu Arg Gly Gly Leu Ser Glu Leu Asp
            900                 905                 910

Lys Ala Gly Phe Ile Lys Arg Gln Leu Val Glu Thr Arg Gln Ile Thr
        915                 920                 925

Lys His Val Ala Gln Ile Leu Asp Ser Arg Met Asn Thr Lys Tyr Asp
    930                 935                 940

Glu Asn Asp Lys Leu Ile Arg Glu Val Lys Val Ile Thr Leu Lys Ser
945                 950                 955                 960

Lys Leu Val Ser Asp Phe Arg Lys Asp Phe Gln Phe Tyr Lys Val Arg
                965                 970                 975

Glu Ile Asn Asn Tyr His His Ala His Asp Ala Tyr Leu Asn Ala Val
            980                 985                 990

Val Gly Thr Ala Leu Ile Lys Lys  Tyr Pro Lys Leu Glu  Ser Glu Phe
        995                 1000                1005

Val Tyr  Gly Asp Tyr Lys Val  Tyr Asp Val Arg Lys  Met Ile Ala
    1010                1015                1020

Lys Ser  Glu Gln Glu Ile Gly  Lys Ala Thr Ala Lys  Tyr Phe Phe
    1025                1030                1035

Tyr Ser  Asn Ile Met Asn Phe  Phe Lys Thr Glu Ile  Thr Leu Ala
    1040                1045                1050

Asn Gly  Glu Ile Arg Lys Arg  Pro Leu Ile Glu Thr  Asn Gly Glu
    1055                1060                1065

Thr Gly  Glu Ile Val Trp Asp  Lys Gly Arg Asp Phe  Ala Thr Val
    1070                1075                1080
```

```
Arg Lys  Val Leu Ser Met Pro  Gln Val Asn Ile Val  Lys Lys Thr
    1085                1090                1095

Glu Val  Gln Thr Gly Gly Phe  Ser Lys Glu Ser Ile  Leu Pro Lys
    1100                1105                1110

Arg Asn  Ser Asp Lys Leu Ile  Ala Arg Lys Lys Asp  Trp Asp Pro
    1115                1120                1125

Lys Lys  Tyr Gly Gly Phe Asp  Ser Pro Thr Val Ala  Tyr Ser Val
    1130                1135                1140

Leu Val  Val Ala Lys Val Glu  Lys Gly Lys Ser Lys  Lys Leu Lys
    1145                1150                1155

Ser Val  Lys Glu Leu Leu Gly  Ile Thr Ile Met Glu  Arg Ser Ser
    1160                1165                1170

Phe Glu  Lys Asn Pro Ile Asp  Phe Leu Glu Ala Lys  Gly Tyr Lys
    1175                1180                1185

Glu Val  Lys Lys Asp Leu Ile  Ile Lys Leu Pro Lys  Tyr Ser Leu
    1190                1195                1200

Phe Glu  Leu Glu Asn Gly Arg  Lys Arg Met Leu Ala  Ser Ala Gly
    1205                1210                1215

Glu Leu  Gln Lys Gly Asn Glu  Leu Ala Leu Pro Ser  Lys Tyr Val
    1220                1225                1230

Asn Phe  Leu Tyr Leu Ala Ser  His Tyr Glu Lys Leu  Lys Gly Ser
    1235                1240                1245

Pro Glu  Asp Asn Glu Gln Lys  Gln Leu Phe Val Glu  Gln His Lys
    1250                1255                1260

His Tyr  Leu Asp Glu Ile Ile  Glu Gln Ile Ser Glu  Phe Ser Lys
    1265                1270                1275

Arg Val  Ile Leu Ala Asp Ala  Asn Leu Asp Lys Val  Leu Ser Ala
    1280                1285                1290

Tyr Asn  Lys His Arg Asp Lys  Pro Ile Arg Glu Gln  Ala Glu Asn
    1295                1300                1305

Ile Ile  His Leu Phe Thr Leu  Thr Asn Leu Gly Ala  Pro Ala Ala
    1310                1315                1320

Phe Lys  Tyr Phe Asp Thr Thr  Ile Asp Arg Lys Arg  Tyr Thr Ser
    1325                1330                1335
```

Thr Lys Glu Val Leu Asp Ala Thr Leu Ile His Gln Ser Ile Thr
1340 1345 1350

Gly Leu Tyr Glu Thr Arg Ile Asp Leu Ser Gln Leu Gly Gly Asp
1355 1360 1365

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<211> 1388
<212> PRT
<213> Streptococcus thermophilus

<400> 325

Met Thr Lys Pro Tyr Ser Ile Gly Leu Asp Ile Gly Thr Asn Ser Val
1 5 10 15

Gly Trp Ala Val Thr Thr Asp Asn Tyr Lys Val Pro Ser Lys Lys Met
20 25 30

Lys Val Leu Gly Asn Thr Ser Lys Lys Tyr Ile Lys Lys Asn Leu Leu
35 40 45

Gly Val Leu Leu Phe Asp Ser Gly Ile Thr Ala Glu Gly Arg Arg Leu
50 55 60

Lys Arg Thr Ala Arg Arg Arg Tyr Thr Arg Arg Arg Asn Arg Ile Leu
65 70 75 80

Tyr Leu Gln Glu Ile Phe Ser Thr Glu Met Ala Thr Leu Asp Asp Ala
85 90 95

Phe Phe Gln Arg Leu Asp Asp Ser Phe Leu Val Pro Asp Asp Lys Arg
100 105 110

Asp Ser Lys Tyr Pro Ile Phe Gly Asn Leu Val Glu Glu Lys Ala Tyr
115 120 125

His Asp Glu Phe Pro Thr Ile Tyr His Leu Arg Lys Tyr Leu Ala Asp
130 135 140

Ser Thr Lys Lys Ala Asp Leu Arg Leu Val Tyr Leu Ala Leu Ala His
145 150 155 160

Met Ile Lys Tyr Arg Gly His Phe Leu Ile Glu Gly Glu Phe Asn Ser
165 170 175

Lys Asn Asn Asp Ile Gln Lys Asn Phe Gln Asp Phe Leu Asp Thr Tyr
180 185 190

Asn Ala Ile Phe Glu Ser Asp Leu Ser Leu Glu Asn Ser Lys Gln Leu
195 200 205

```
Glu Glu Ile Val Lys Asp Lys Ile Ser Lys Leu Glu Lys Lys Asp Arg
    210                 215                 220

Ile Leu Lys Leu Phe Pro Gly Glu Lys Asn Ser Gly Ile Phe Ser Glu
225                 230                 235                 240

Phe Leu Lys Leu Ile Val Gly Asn Gln Ala Asp Phe Arg Lys Cys Phe
                245                 250                 255

Asn Leu Asp Glu Lys Ala Ser Leu His Phe Ser Lys Glu Ser Tyr Asp
            260                 265                 270

Glu Asp Leu Glu Thr Leu Leu Gly Tyr Ile Gly Asp Asp Tyr Ser Asp
        275                 280                 285

Val Phe Leu Lys Ala Lys Lys Leu Tyr Asp Ala Ile Leu Leu Ser Gly
    290                 295                 300

Phe Leu Thr Val Thr Asp Asn Glu Thr Glu Ala Pro Leu Ser Ser Ala
305                 310                 315                 320

Met Ile Lys Arg Tyr Asn Glu His Lys Glu Asp Leu Ala Leu Leu Lys
                325                 330                 335

Glu Tyr Ile Arg Asn Ile Ser Leu Lys Thr Tyr Asn Glu Val Phe Lys
            340                 345                 350

Asp Asp Thr Lys Asn Gly Tyr Ala Gly Tyr Ile Asp Gly Lys Thr Asn
        355                 360                 365

Gln Glu Asp Phe Tyr Val Tyr Leu Lys Lys Leu Leu Ala Glu Phe Glu
    370                 375                 380

Gly Ala Asp Tyr Phe Leu Glu Lys Ile Asp Arg Glu Asp Phe Leu Arg
385                 390                 395                 400

Lys Gln Arg Thr Phe Asp Asn Gly Ser Ile Pro Tyr Gln Ile His Leu
                405                 410                 415

Gln Glu Met Arg Ala Ile Leu Asp Lys Gln Ala Lys Phe Tyr Pro Phe
            420                 425                 430

Leu Ala Lys Asn Lys Glu Arg Ile Glu Lys Ile Leu Thr Phe Arg Ile
        435                 440                 445

Pro Tyr Tyr Val Gly Pro Leu Ala Arg Gly Asn Ser Asp Phe Ala Trp
    450                 455                 460

Ser Ile Arg Lys Arg Asn Glu Lys Ile Thr Pro Trp Asn Phe Glu Asp
465                 470                 475                 480
```

```
Val Ile Asp Lys Glu Ser Ser Ala Glu Ala Phe Ile Asn Arg Met Thr
                485                 490                 495

Ser Phe Asp Leu Tyr Leu Pro Glu Glu Lys Val Leu Pro Lys His Ser
            500                 505                 510

Leu Leu Tyr Glu Thr Phe Asn Val Tyr Asn Glu Leu Thr Lys Val Arg
        515                 520                 525

Phe Ile Ala Glu Ser Met Arg Asp Tyr Gln Phe Leu Asp Ser Lys Gln
    530                 535                 540

Lys Lys Asp Ile Val Arg Leu Tyr Phe Lys Asp Lys Arg Lys Val Thr
545                 550                 555                 560

Asp Lys Asp Ile Ile Glu Tyr Leu His Ala Ile Tyr Gly Tyr Asp Gly
                565                 570                 575

Ile Glu Leu Lys Gly Ile Glu Lys Gln Phe Asn Ser Ser Leu Ser Thr
            580                 585                 590

Tyr His Asp Leu Leu Asn Ile Ile Asn Asp Lys Glu Phe Leu Asp Asp
        595                 600                 605

Ser Ser Asn Glu Ala Ile Ile Glu Glu Ile Ile His Thr Leu Thr Ile
    610                 615                 620

Phe Glu Asp Arg Glu Met Ile Lys Gln Arg Leu Ser Lys Phe Glu Asn
625                 630                 635                 640

Ile Phe Asp Lys Ser Val Leu Lys Lys Leu Ser Arg Arg His Tyr Thr
                645                 650                 655

Gly Trp Gly Lys Leu Ser Ala Lys Leu Ile Asn Gly Ile Arg Asp Glu
            660                 665                 670

Lys Ser Gly Asn Thr Ile Leu Asp Tyr Leu Ile Asp Asp Gly Ile Ser
        675                 680                 685

Asn Arg Asn Phe Met Gln Leu Ile His Asp Asp Ala Leu Ser Phe Lys
    690                 695                 700

Lys Lys Ile Gln Lys Ala Gln Ile Ile Gly Asp Glu Asp Lys Gly Asn
705                 710                 715                 720

Ile Lys Glu Val Val Lys Ser Leu Pro Gly Ser Pro Ala Ile Lys Lys
                725                 730                 735

Gly Ile Leu Gln Ser Ile Lys Ile Val Asp Glu Leu Val Lys Val Met
            740                 745                 750
```

```
Gly Gly Arg Lys Pro Glu Ser Ile Val Val Glu Met Ala Arg Glu Asn
        755                 760                 765

Gln Tyr Thr Asn Gln Gly Lys Ser Asn Ser Gln Gln Arg Leu Lys Arg
    770                 775                 780

Leu Glu Lys Ser Leu Lys Glu Leu Gly Ser Lys Ile Leu Lys Glu Asn
785                 790                 795                 800

Ile Pro Ala Lys Leu Ser Lys Ile Asp Asn Asn Ala Leu Gln Asn Asp
                805                 810                 815

Arg Leu Tyr Leu Tyr Tyr Leu Gln Asn Gly Lys Asp Met Tyr Thr Gly
            820                 825                 830

Asp Asp Leu Asp Ile Asp Arg Leu Ser Asn Tyr Asp Ile Asp His Ile
        835                 840                 845

Ile Pro Gln Ala Phe Leu Lys Asp Asn Ser Ile Asp Asn Lys Val Leu
    850                 855                 860

Val Ser Ser Ala Ser Asn Arg Gly Lys Ser Asp Asp Val Pro Ser Leu
865                 870                 875                 880

Glu Val Val Lys Lys Arg Lys Thr Phe Trp Tyr Gln Leu Leu Lys Ser
                885                 890                 895

Lys Leu Ile Ser Gln Arg Lys Phe Asp Asn Leu Thr Lys Ala Glu Arg
            900                 905                 910

Gly Gly Leu Ser Pro Glu Asp Lys Ala Gly Phe Ile Gln Arg Gln Leu
        915                 920                 925

Val Glu Thr Arg Gln Ile Thr Lys His Val Ala Arg Leu Leu Asp Glu
    930                 935                 940

Lys Phe Asn Asn Lys Lys Asp Glu Asn Asn Arg Ala Val Arg Thr Val
945                 950                 955                 960

Lys Ile Ile Thr Leu Lys Ser Thr Leu Val Ser Gln Phe Arg Lys Asp
                965                 970                 975

Phe Glu Leu Tyr Lys Val Arg Glu Ile Asn Asp Phe His His Ala His
            980                 985                 990

Asp Ala Tyr Leu Asn Ala Val Val  Ala Ser Ala Leu Leu  Lys Lys Tyr
        995                 1000                1005

Pro Lys  Leu Glu Pro Glu Phe  Val Tyr Gly Asp Tyr  Pro Lys Tyr
    1010                1015                1020
```

```
Asn Ser  Phe Arg Glu Arg Lys  Ser Ala Thr Glu Lys  Val Tyr Phe
    1025                1030                1035

Tyr Ser  Asn Ile Met Asn Ile  Phe Lys Lys Ser Ile  Ser Leu Ala
    1040                1045                1050

Asp Gly  Arg Val Ile Glu Arg  Pro Leu Ile Glu Val  Asn Glu Glu
    1055                1060                1065

Thr Gly  Glu Ser Val Trp Asn  Lys Glu Ser Asp Leu  Ala Thr Val
    1070                1075                1080

Arg Arg  Val Leu Ser Tyr Pro  Gln Val Asn Val Val  Lys Lys Val
    1085                1090                1095

Glu Glu  Gln Asn His Gly Leu  Asp Arg Gly Lys Pro  Lys Gly Leu
    1100                1105                1110

Phe Asn  Ala Asn Leu Ser Ser  Lys Pro Lys Pro Asn  Ser Asn Glu
    1115                1120                1125

Asn Leu  Val Gly Ala Lys Glu  Tyr Leu Asp Pro Lys  Lys Tyr Gly
    1130                1135                1140

Gly Tyr  Ala Gly Ile Ser Asn  Ser Phe Thr Val Leu  Val Lys Gly
    1145                1150                1155

Thr Ile  Glu Lys Gly Ala Lys  Lys Lys Ile Thr Asn  Val Leu Glu
    1160                1165                1170

Phe Gln  Gly Ile Ser Ile Leu  Asp Arg Ile Asn Tyr  Arg Lys Asp
    1175                1180                1185

Lys Leu  Asn Phe Leu Leu Glu  Lys Gly Tyr Lys Asp  Ile Glu Leu
    1190                1195                1200

Ile Ile  Glu Leu Pro Lys Tyr  Ser Leu Phe Glu Leu  Ser Asp Gly
    1205                1210                1215

Ser Arg  Arg Met Leu Ala Ser  Ile Leu Ser Thr Asn  Asn Lys Arg
    1220                1225                1230

Gly Glu  Ile His Lys Gly Asn  Gln Ile Phe Leu Ser  Gln Lys Phe
    1235                1240                1245

Val Lys  Leu Leu Tyr His Ala  Lys Arg Ile Ser Asn  Thr Ile Asn
    1250                1255                1260

Glu Asn  His Arg Lys Tyr Val  Glu Asn His Lys Lys  Glu Phe Glu
    1265                1270                1275
```

```
Glu Leu  Phe Tyr Tyr Ile Leu  Glu Phe Asn Glu Asn  Tyr Val Gly
    1280                1285                1290

Ala Lys  Lys Asn Gly Lys Leu  Leu Asn Ser Ala Phe  Gln Ser Trp
    1295                1300                1305

Gln Asn  His Ser Ile Asp Glu  Leu Cys Ser Ser Phe  Ile Gly Pro
    1310                1315                1320

Thr Gly  Ser Glu Arg Lys Gly  Leu Phe Glu Leu Thr  Ser Arg Gly
    1325                1330                1335

Ser Ala  Ala Asp Phe Glu Phe  Leu Gly Val Lys Ile  Pro Arg Tyr
    1340                1345                1350

Arg Asp  Tyr Thr Pro Ser Ser  Leu Leu Lys Asp Ala  Thr Leu Ile
    1355                1360                1365

His Gln  Ser Val Thr Gly Leu  Tyr Glu Thr Arg Ile  Asp Leu Ala
    1370                1375                1380

Lys Leu  Gly Glu Gly
    1385
```

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<213> Fusobacterium nucleatum

<400> 326

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Met Lys Lys Gln Lys Phe Ser Asp Tyr Tyr Leu Gly Phe Asp Ile Gly
1               5                  10                  15

Thr Asn Ser Val Gly Trp Cys Val Thr Asp Leu Asp Tyr Asn Val Leu
            20                  25                  30

Arg Phe Asn Lys Lys Asp Met Trp Gly Ser Arg Leu Phe Asp Glu Ala
        35                  40                  45

Lys Thr Ala Ala Glu Arg Arg Val Gln Arg Asn Ser Arg Arg Arg Leu
    50                  55                  60

Lys Arg Arg Lys Trp Arg Leu Asn Leu Leu Glu Glu Ile Phe Ser Asp
65                  70                  75                  80

Glu Ile Met Lys Ile Asp Ser Asn Phe Phe Arg Arg Leu Lys Glu Ser
                85                  90                  95

Ser Leu Trp Leu Glu Asp Lys Asn Ser Lys Glu Lys Phe Thr Leu Phe
            100                 105                 110
```

```
Asn Asp Asp Asn Tyr Lys Asp Tyr Asp Phe Tyr Lys Gln Tyr Pro Thr
        115                 120                 125

Ile Phe His Leu Arg Asp Glu Leu Ile Lys Asn Pro Glu Lys Lys Asp
    130                 135                 140

Ile Arg Leu Ile Tyr Leu Ala Leu His Ser Ile Phe Lys Ser Arg Gly
145                 150                 155                 160

His Phe Leu Phe Glu Gly Gln Asn Leu Lys Glu Ile Lys Asn Phe Glu
                165                 170                 175

Thr Leu Tyr Asn Asn Leu Ile Ser Phe Leu Glu Asp Asn Gly Ile Asn
            180                 185                 190

Lys Ser Ile Asp Lys Asp Asn Ile Glu Lys Leu Glu Lys Ile Ile Cys
        195                 200                 205

Asp Ser Gly Lys Gly Leu Lys Asp Lys Glu Lys Glu Phe Lys Gly Ile
    210                 215                 220

Phe Asn Ser Asp Lys Gln Leu Val Ala Ile Phe Lys Leu Ser Val Gly
225                 230                 235                 240

Ser Ser Val Ser Leu Asn Asp Leu Phe Asp Thr Asp Glu Tyr Lys Lys
                245                 250                 255

Glu Glu Val Glu Lys Glu Lys Ile Ser Phe Arg Glu Gln Ile Tyr Glu
            260                 265                 270

Asp Asp Lys Pro Ile Tyr Tyr Ser Ile Leu Gly Glu Lys Ile Glu Leu
        275                 280                 285

Leu Asp Ile Ala Lys Ser Phe Tyr Asp Phe Met Val Leu Asn Asn Ile
    290                 295                 300

Leu Ser Asp Ser Asn Tyr Ile Ser Glu Ala Lys Val Lys Leu Tyr Glu
305                 310                 315                 320

Glu His Lys Lys Asp Leu Lys Asn Leu Lys Tyr Ile Ile Arg Lys Tyr
                325                 330                 335

Asn Lys Glu Asn Tyr Asp Lys Leu Phe Lys Asp Lys Asn Glu Asn Asn
            340                 345                 350

Tyr Pro Ala Tyr Ile Gly Leu Asn Lys Glu Lys Asp Lys Lys Glu Val
        355                 360                 365

Val Glu Lys Ser Arg Leu Lys Ile Asp Asp Leu Ile Lys Val Ile Lys
    370                 375                 380
```

```
Gly Tyr Leu Pro Lys Pro Glu Arg Ile Glu Glu Lys Asp Lys Thr Ile
385                 390                 395                 400

Phe Asn Glu Ile Leu Asn Lys Ile Glu Leu Lys Thr Ile Leu Pro Lys
                405                 410                 415

Gln Arg Ile Ser Asp Asn Gly Thr Leu Pro Tyr Gln Ile His Glu Val
            420                 425                 430

Glu Leu Glu Lys Ile Leu Glu Asn Gln Ser Lys Tyr Tyr Asp Phe Leu
        435                 440                 445

Asn Tyr Glu Glu Asn Gly Val Ser Thr Lys Asp Lys Leu Leu Lys Thr
    450                 455                 460

Phe Lys Phe Arg Ile Pro Tyr Tyr Val Gly Pro Leu Asn Ser Tyr His
465                 470                 475                 480

Lys Asp Lys Gly Gly Asn Ser Trp Ile Val Arg Lys Glu Glu Gly Lys
                485                 490                 495

Ile Leu Pro Trp Asn Phe Glu Gln Lys Val Asp Ile Glu Lys Ser Ala
            500                 505                 510

Glu Glu Phe Ile Lys Arg Met Thr Asn Lys Cys Thr Tyr Leu Asn Gly
        515                 520                 525

Glu Asp Val Ile Pro Lys Asp Ser Phe Leu Tyr Ser Glu Tyr Ile Ile
    530                 535                 540

Leu Asn Glu Leu Asn Lys Val Gln Val Asn Asp Glu Phe Leu Asn Glu
545                 550                 555                 560

Glu Asn Lys Arg Lys Ile Ile Asp Glu Leu Phe Lys Glu Asn Lys Lys
                565                 570                 575

Val Ser Glu Lys Lys Phe Lys Glu Tyr Leu Leu Val Asn Gln Ile Ala
            580                 585                 590

Asn Arg Thr Val Glu Leu Lys Gly Ile Lys Asp Ser Phe Asn Ser Asn
        595                 600                 605

Tyr Val Ser Tyr Ile Lys Phe Lys Asp Ile Phe Gly Glu Lys Leu Asn
    610                 615                 620

Leu Asp Ile Tyr Lys Glu Ile Ser Glu Lys Ser Ile Leu Trp Lys Cys
625                 630                 635                 640

Leu Tyr Gly Asp Asp Lys Lys Ile Phe Glu Lys Lys Ile Lys Asn Glu
                645                 650                 655
```

```
Tyr Gly Asp Ile Leu Asn Lys Asp Glu Ile Lys Lys Ile Asn Ser Phe
            660                 665                 670

Lys Phe Asn Thr Trp Gly Arg Leu Ser Glu Lys Leu Leu Thr Gly Ile
        675                 680                 685

Glu Phe Ile Asn Leu Glu Thr Gly Glu Cys Tyr Ser Ser Val Met Glu
    690                 695                 700

Ala Leu Arg Arg Thr Asn Tyr Asn Leu Met Glu Leu Leu Ser Ser Lys
705                 710                 715                 720

Phe Thr Leu Gln Glu Ser Ile Asp Asn Glu Asn Lys Glu Met Asn Glu
                725                 730                 735

Val Ser Tyr Arg Asp Leu Ile Glu Glu Ser Tyr Val Ser Pro Ser Leu
            740                 745                 750

Lys Arg Ala Ile Leu Gln Thr Leu Lys Ile Tyr Glu Glu Ile Lys Lys
        755                 760                 765

Ile Thr Gly Arg Val Pro Lys Lys Val Phe Ile Glu Met Ala Arg Gly
    770                 775                 780

Gly Asp Glu Ser Met Lys Asn Lys Lys Ile Pro Ala Arg Gln Glu Gln
785                 790                 795                 800

Leu Lys Lys Leu Tyr Asp Ser Cys Gly Asn Asp Ile Ala Asn Phe Ser
                805                 810                 815

Ile Asp Ile Lys Glu Met Lys Asn Ser Leu Ser Ser Tyr Asp Asn Asn
            820                 825                 830

Ser Leu Arg Gln Lys Lys Leu Tyr Leu Tyr Tyr Leu Gln Phe Gly Lys
        835                 840                 845

Cys Met Tyr Thr Gly Arg Glu Ile Asp Leu Asp Arg Leu Leu Gln Asn
    850                 855                 860

Asn Asp Thr Tyr Asp Ile Asp His Ile Tyr Pro Arg Ser Lys Val Ile
865                 870                 875                 880

Lys Asp Asp Ser Phe Asp Asn Leu Val Leu Val Leu Lys Asn Glu Asn
                885                 890                 895

Ala Glu Lys Ser Asn Glu Tyr Pro Val Lys Lys Glu Ile Gln Glu Lys
            900                 905                 910

Met Lys Ser Phe Trp Arg Phe Leu Lys Glu Lys Asn Phe Ile Ser Asp
        915                 920                 925
```

```
Glu Lys Tyr Lys Arg Leu Thr Gly Lys Asp Asp Phe Glu Leu Arg Gly
    930                 935                 940

Phe Met Ala Arg Gln Leu Val Asn Val Arg Gln Thr Thr Lys Glu Val
945                 950                 955                 960

Gly Lys Ile Leu Gln Gln Ile Glu Pro Glu Ile Lys Ile Val Tyr Ser
                965                 970                 975

Lys Ala Glu Ile Ala Ser Ser Phe Arg Glu Met Phe Asp Phe Ile Lys
            980                 985                 990

Val Arg Glu Leu Asn Asp Thr His  His Ala Lys Asp Ala  Tyr Leu Asn
        995                 1000                1005

Ile Val  Ala Gly Asn Val Tyr  Asn Thr Lys Phe Thr  Glu Lys Pro
    1010                1015                1020

Tyr Arg  Tyr Leu Gln Glu Ile  Lys Glu Asn Tyr Asp  Val Lys Lys
    1025                1030                1035

Ile Tyr  Asn Tyr Asp Ile Lys  Asn Ala Trp Asp Lys  Glu Asn Ser
    1040                1045                1050

Leu Glu  Ile Val Lys Lys Asn  Met Glu Lys Asn Thr  Val Asn Ile
    1055                1060                1065

Thr Arg  Phe Ile Lys Glu Glu  Lys Gly Glu Leu Phe  Asn Leu Asn
    1070                1075                1080

Pro Ile  Lys Lys Gly Glu Thr  Ser Asn Glu Ile Ile  Ser Ile Lys
    1085                1090                1095

Pro Lys  Leu Tyr Asp Gly Lys  Asp Asn Lys Leu Asn  Glu Lys Tyr
    1100                1105                1110

Gly Tyr  Tyr Thr Ser Leu Lys  Ala Ala Tyr Phe Ile  Tyr Val Glu
    1115                1120                1125

His Glu  Lys Lys Asn Lys Lys  Val Lys Thr Phe Glu  Arg Ile Thr
    1130                1135                1140

Arg Ile  Asp Ser Thr Leu Ile  Lys Asn Glu Lys Asn  Leu Ile Lys
    1145                1150                1155

Tyr Leu  Val Ser Gln Lys Lys  Leu Leu Asn Pro Lys  Ile Ile Lys
    1160                1165                1170

Lys Ile  Tyr Lys Glu Gln Thr  Leu Ile Ile Asp Ser  Tyr Pro Tyr
    1175                1180                1185
```

Thr Phe Thr Gly Val Asp Ser Asn Lys Lys Val Glu Leu Lys Asn
1190 1195 1200

Lys Lys Gln Leu Tyr Leu Glu Lys Lys Tyr Glu Gln Ile Leu Lys
1205 1210 1215

Asn Ala Leu Lys Phe Val Glu Asp Asn Gln Gly Glu Thr Glu Glu
1220 1225 1230

Asn Tyr Lys Phe Ile Tyr Leu Lys Lys Arg Asn Asn Asn Glu Lys
1235 1240 1245

Asn Glu Thr Ile Asp Ala Val Lys Glu Arg Tyr Asn Ile Glu Phe
1250 1255 1260

Asn Glu Met Tyr Asp Lys Phe Leu Glu Lys Leu Ser Ser Lys Asp
1265 1270 1275

Tyr Lys Asn Tyr Ile Asn Asn Lys Leu Tyr Thr Asn Phe Leu Asn
1280 1285 1290

Ser Lys Glu Lys Phe Lys Lys Leu Lys Leu Trp Glu Lys Ser Leu
1295 1300 1305

Ile Leu Arg Glu Phe Leu Lys Ile Phe Asn Lys Asn Thr Tyr Gly
1310 1315 1320

Lys Tyr Glu Ile Lys Asp Ser Gln Thr Lys Glu Lys Leu Phe Ser
1325 1330 1335

Phe Pro Glu Asp Thr Gly Arg Ile Arg Leu Gly Gln Ser Ser Leu
1340 1345 1350

Gly Asn Asn Lys Glu Leu Leu Glu Glu Ser Val Thr Gly Leu Phe
1355 1360 1365

Val Lys Lys Ile Lys Leu
1370

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<212> PRT
<213> Planococcus antarcticus

<400> 327

Met Lys Asn Tyr Thr Ile Gly Leu Asp Ile Gly Val Ala Ser Val Gly
1 5 10 15

Trp Val Cys Ile Asp Glu Asn Tyr Lys Ile Leu Asn Tyr Asn Asn Arg
20 25 30

His Ala Phe Gly Val His Glu Phe Glu Ser Ala Glu Ser Ala Ala Gly

35 40 45

Arg Arg Leu Lys Arg Gly Met Arg Arg Arg Tyr Asn Arg Arg Lys Lys
50 55 60

Arg Leu Gln Leu Leu Gln Ser Leu Phe Asp Ser Tyr Ile Thr Asp Ser
65 70 75 80

Gly Phe Phe Ser Lys Thr Asp Ser Gln His Phe Trp Lys Asn Asn Asn
85 90 95

Glu Phe Glu Asn Arg Ser Leu Thr Glu Val Leu Ser Ser Leu Arg Ile
100 105 110

Ser Ser Arg Lys Tyr Pro Thr Ile Tyr His Leu Arg Ser Asp Leu Ile
115 120 125

Glu Ser Asn Lys Lys Met Asp Leu Arg Leu Val Tyr Leu Ala Leu His
130 135 140

Asn Leu Val Lys Tyr Arg Gly His Phe Leu Gln Glu Gly Asn Trp Ser
145 150 155 160

Glu Ala Ala Ser Ala Glu Gly Met Asp Asp Gln Leu Leu Glu Leu Val
165 170 175

Thr Arg Tyr Ala Glu Leu Glu Asn Leu Ser Pro Leu Asp Leu Ser Glu
180 185 190

Ser Gln Trp Lys Ala Ala Glu Thr Leu Leu Leu Asn Arg Asn Leu Thr
195 200 205

Lys Thr Asp Gln Ser Lys Glu Leu Thr Ala Met Phe Gly Lys Glu Tyr
210 215 220

Glu Pro Phe Cys Lys Leu Val Ala Gly Leu Gly Val Ser Leu His Gln
225 230 235 240

Leu Phe Pro Ser Ser Glu Gln Ala Leu Ala Tyr Lys Glu Thr Lys Thr
245 250 255

Lys Val Gln Leu Ser Asn Glu Asn Val Glu Glu Val Met Glu Leu Leu
260 265 270

Leu Glu Glu Glu Ser Ala Leu Leu Glu Ala Val Gln Pro Phe Tyr Gln
275 280 285

Gln Val Val Leu Tyr Glu Leu Leu Lys Gly Glu Thr Tyr Val Ala Lys
290 295 300

Ala Lys Val Ser Ala Phe Lys Gln Tyr Gln Lys Asp Met Ala Ser Leu

305 310 315 320

Lys Asn Leu Leu Asp Lys Thr Phe Gly Glu Lys Val Tyr Arg Ser Tyr
325 330 335

Phe Ile Ser Asp Lys Asn Ser Gln Arg Glu Tyr Gln Lys Ser His Lys
340 345 350

Val Glu Val Leu Cys Lys Leu Asp Gln Phe Asn Lys Glu Ala Lys Phe
355 360 365

Ala Glu Thr Phe Tyr Lys Asp Leu Lys Lys Leu Leu Glu Asp Lys Ser
370 375 380

Lys Thr Ser Ile Gly Thr Thr Glu Lys Asp Glu Met Leu Arg Ile Ile
385 390 395 400

Lys Ala Ile Asp Ser Asn Gln Phe Leu Gln Lys Gln Lys Gly Ile Gln
405 410 415

Asn Ala Ala Ile Pro His Gln Asn Ser Leu Tyr Glu Ala Glu Lys Ile
420 425 430

Leu Arg Asn Gln Gln Ala His Tyr Pro Phe Ile Thr Thr Glu Trp Ile
435 440 445

Glu Lys Val Lys Gln Ile Leu Ala Phe Arg Ile Pro Tyr Tyr Ile Gly
450 455 460

Pro Leu Val Lys Asp Thr Thr Gln Ser Pro Phe Ser Trp Val Glu Arg
465 470 475 480

Lys Gly Asp Ala Pro Ile Thr Pro Trp Asn Phe Asp Glu Gln Ile Asp
485 490 495

Lys Ala Ala Ser Ala Glu Ala Phe Ile Ser Arg Met Arg Lys Thr Cys
500 505 510

Thr Tyr Leu Lys Gly Gln Glu Val Leu Pro Lys Ser Ser Leu Thr Tyr
515 520 525

Glu Arg Phe Glu Val Leu Asn Glu Leu Asn Gly Ile Gln Leu Arg Thr
530 535 540

Thr Gly Ala Glu Ser Asp Phe Arg His Arg Leu Ser Tyr Glu Met Lys
545 550 555 560

Cys Trp Ile Ile Asp Asn Val Phe Lys Gln Tyr Lys Thr Val Ser Thr
565 570 575

Lys Arg Leu Leu Gln Glu Leu Lys Lys Ser Pro Tyr Ala Asp Glu Leu

580 585 590

Tyr Asp Glu His Thr Gly Glu Ile Lys Glu Val Phe Gly Thr Gln Lys
595 600 605

Glu Asn Ala Phe Ala Thr Ser Leu Ser Gly Tyr Ile Ser Met Lys Ser
610 615 620

Ile Leu Gly Ala Val Val Asp Asp Asn Pro Ala Met Thr Glu Glu Leu
625 630 635 640

Ile Tyr Trp Ile Ala Val Phe Glu Asp Arg Glu Ile Leu His Leu Lys
645 650 655

Ile Gln Glu Lys Tyr Pro Ser Ile Thr Asp Val Gln Arg Gln Lys Leu
660 665 670

Ala Leu Val Lys Leu Pro Gly Trp Gly Arg Phe Ser Arg Leu Leu Ile
675 680 685

Asp Gly Leu Pro Leu Asp Glu Gln Gly Gln Ser Val Leu Asp His Met
690 695 700

Glu Gln Tyr Ser Ser Val Phe Met Glu Val Leu Lys Asn Lys Gly Phe
705 710 715 720

Gly Leu Glu Lys Lys Ile Gln Lys Met Asn Gln His Gln Val Asp Gly
725 730 735

Thr Lys Lys Ile Arg Tyr Glu Asp Ile Glu Glu Leu Ala Gly Ser Pro
740 745 750

Ala Leu Lys Arg Gly Ile Trp Arg Ser Val Lys Ile Val Glu Glu Leu
755 760 765

Val Ser Ile Phe Gly Glu Pro Ala Asn Ile Val Leu Glu Val Ala Arg
770 775 780

Glu Asp Gly Glu Lys Lys Arg Thr Lys Ser Arg Lys Asp Gln Trp Glu
785 790 795 800

Glu Leu Thr Lys Thr Thr Leu Lys Asn Asp Pro Asp Leu Lys Ser Phe
805 810 815

Ile Gly Glu Ile Lys Ser Gln Gly Asp Gln Arg Phe Asn Glu Gln Arg
820 825 830

Phe Trp Leu Tyr Val Thr Gln Gln Gly Lys Cys Leu Tyr Thr Gly Lys
835 840 845

Ala Leu Asp Ile Gln Asn Leu Ser Met Tyr Glu Val Asp His Ile Leu

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    850                 855                 860

Pro Gln Asn Phe Val Lys Asp Asp Ser Leu Asp Asn Leu Ala Leu Val
865                 870                 875                 880

Met Pro Glu Ala Asn Gln Arg Lys Asn Gln Val Gly Gln Asn Lys Met
                885                 890                 895

Pro Leu Glu Ile Ile Glu Ala Asn Gln Gln Tyr Ala Met Arg Thr Leu
            900                 905                 910

Trp Glu Arg Leu His Glu Leu Lys Leu Ile Ser Ser Gly Lys Leu Gly
        915                 920                 925

Arg Leu Lys Lys Pro Ser Phe Asp Glu Val Asp Lys Asp Lys Phe Ile
    930                 935                 940

Ala Arg Gln Leu Val Glu Thr Arg Gln Ile Ile Lys His Val Arg Asp
945                 950                 955                 960

Leu Leu Asp Glu Arg Phe Ser Lys Ser Asp Ile His Leu Val Lys Ala
                965                 970                 975

Gly Ile Val Ser Lys Phe Arg Arg Phe Ser Glu Ile Pro Lys Ile Arg
            980                 985                 990

Asp Tyr Asn Asn Lys His His Ala  Met Asp Ala Leu Phe  Ala Ala Ala
        995                 1000                1005

Leu Ile  Gln Ser Ile Leu Gly  Lys Tyr Gly Lys Asn  Phe Leu Ala
    1010                1015                1020

Phe Asp  Leu Ser Lys Lys Asp  Arg Gln Lys Gln Trp  Arg Ser Val
    1025                1030                1035

Lys Gly  Ser Asn Lys Glu Phe  Phe Leu Phe Lys Asn  Phe Gly Asn
    1040                1045                1050

Leu Arg  Leu Gln Ser Pro Val  Thr Gly Glu Glu Val  Ser Gly Val
    1055                1060                1065

Glu Tyr  Met Lys His Val Tyr  Phe Glu Leu Pro Trp  Gln Thr Thr
    1070                1075                1080

Lys Met  Thr Gln Thr Gly Asp  Gly Met Phe Tyr Lys  Glu Ser Ile
    1085                1090                1095

Phe Ser  Pro Lys Val Lys Gln  Ala Lys Tyr Val Ser  Pro Lys Thr
    1100                1105                1110

Glu Lys  Phe Val His Asp Glu  Val Lys Asn His Ser  Ile Cys Leu
```

1115 1120 1125

Val Glu Phe Thr Phe Met Lys Lys Glu Lys Glu Val Gln Glu Thr
1130 1135 1140

Lys Phe Ile Asp Leu Lys Val Ile Glu His His Gln Phe Leu Lys
1145 1150 1155

Glu Pro Glu Ser Gln Leu Ala Lys Phe Leu Ala Glu Lys Glu Thr
1160 1165 1170

Asn Ser Pro Ile Ile His Ala Arg Ile Ile Arg Thr Ile Pro Lys
1175 1180 1185

Tyr Gln Lys Ile Trp Ile Glu His Phe Pro Tyr Tyr Phe Ile Ser
1190 1195 1200

Thr Arg Glu Leu His Asn Ala Arg Gln Phe Glu Ile Ser Tyr Glu
1205 1210 1215

Leu Met Glu Lys Val Lys Gln Leu Ser Glu Arg Ser Ser Val Glu
1220 1225 1230

Glu Leu Lys Ile Val Phe Gly Leu Leu Ile Asp Gln Met Asn Asp
1235 1240 1245

Asn Tyr Pro Ile Tyr Thr Lys Ser Ser Ile Gln Asp Arg Val Gln
1250 1255 1260

Lys Phe Val Asp Thr Gln Leu Tyr Asp Phe Lys Ser Phe Glu Ile
1265 1270 1275

Gly Phe Glu Glu Leu Lys Lys Ala Val Ala Ala Asn Ala Gln Arg
1280 1285 1290

Ser Asp Thr Phe Gly Ser Arg Ile Ser Lys Lys Pro Lys Pro Glu
1295 1300 1305

Glu Val Ala Ile Gly Tyr Glu Ser Ile Thr Gly Leu Lys Tyr Arg
1310 1315 1320

Lys Pro Arg Ser Val Val Gly Thr Lys Arg
1325 1330

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<211> 1395
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<400> 328

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

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Gly Ser Val Gly Trp Ala Val Thr Asp Thr Asp Tyr Lys Leu Leu Lys
            20                  25                  30

Ala Asn Arg Lys Asp Leu Trp Gly Met Arg Cys Phe Glu Thr Ala Glu
        35                  40                  45

Thr Ala Glu Val Arg Arg Leu His Arg Gly Ala Arg Arg Arg Ile Glu
    50                  55                  60

Arg Arg Lys Lys Arg Ile Lys Leu Leu Gln Glu Leu Phe Ser Gln Glu
65                  70                  75                  80

Ile Ala Lys Thr Asp Glu Gly Phe Phe Gln Arg Met Lys Glu Ser Pro
                85                  90                  95

Phe Tyr Ala Glu Asp Lys Thr Ile Leu Gln Glu Asn Thr Leu Phe Asn
            100                 105                 110

Asp Lys Asp Phe Ala Asp Lys Thr Tyr His Lys Ala Tyr Pro Thr Ile
        115                 120                 125

Asn His Leu Ile Lys Ala Trp Ile Glu Asn Lys Val Lys Pro Asp Pro
    130                 135                 140

Arg Leu Leu Tyr Leu Ala Cys His Asn Ile Ile Lys Lys Arg Gly His
145                 150                 155                 160

Phe Leu Phe Glu Gly Asp Phe Asp Ser Glu Asn Gln Phe Asp Thr Ser
                165                 170                 175

Ile Gln Ala Leu Phe Glu Tyr Leu Arg Glu Asp Met Glu Val Asp Ile
            180                 185                 190

Asp Ala Asp Ser Gln Lys Val Lys Glu Ile Leu Lys Asp Ser Ser Leu
        195                 200                 205

Lys Asn Ser Glu Lys Gln Ser Arg Leu Asn Lys Ile Leu Gly Leu Lys
    210                 215                 220

Pro Ser Asp Lys Gln Lys Lys Ala Ile Thr Asn Leu Ile Ser Gly Asn
225                 230                 235                 240

Lys Ile Asn Phe Ala Asp Leu Tyr Asp Asn Pro Asp Leu Lys Asp Ala
                245                 250                 255

Glu Lys Asn Ser Ile Ser Phe Ser Lys Asp Asp Phe Asp Ala Leu Ser
            260                 265                 270

Asp Asp Leu Ala Ser Ile Leu Gly Asp Ser Phe Glu Leu Leu Leu Lys
        275                 280                 285
```

```
Ala Lys Ala Val Tyr Asn Cys Ser Val Leu Ser Lys Val Ile Gly Asp
    290                 295                 300

Glu Gln Tyr Leu Ser Phe Ala Lys Val Lys Ile Tyr Glu Lys His Lys
305                 310                 315                 320

Thr Asp Leu Thr Lys Leu Lys Asn Val Ile Lys Lys His Phe Pro Lys
                325                 330                 335

Asp Tyr Lys Lys Val Phe Gly Tyr Asn Lys Asn Glu Lys Asn Asn Asn
            340                 345                 350

Asn Tyr Ser Gly Tyr Val Gly Val Cys Lys Thr Lys Ser Lys Lys Leu
        355                 360                 365

Ile Ile Asn Asn Ser Val Asn Gln Glu Asp Phe Tyr Lys Phe Leu Lys
    370                 375                 380

Thr Ile Leu Ser Ala Lys Ser Glu Ile Lys Glu Val Asn Asp Ile Leu
385                 390                 395                 400

Thr Glu Ile Glu Thr Gly Thr Phe Leu Pro Lys Gln Ile Ser Lys Ser
                405                 410                 415

Asn Ala Glu Ile Pro Tyr Gln Leu Arg Lys Met Glu Leu Glu Lys Ile
            420                 425                 430

Leu Ser Asn Ala Glu Lys His Phe Ser Phe Leu Lys Gln Lys Asp Glu
        435                 440                 445

Lys Gly Leu Ser His Ser Glu Lys Ile Ile Met Leu Leu Thr Phe Lys
    450                 455                 460

Ile Pro Tyr Tyr Ile Gly Pro Ile Asn Asp Asn His Lys Lys Phe Phe
465                 470                 475                 480

Pro Asp Arg Cys Trp Val Val Lys Lys Glu Lys Ser Pro Ser Gly Lys
                485                 490                 495

Thr Thr Pro Trp Asn Phe Phe Asp His Ile Asp Lys Glu Lys Thr Ala
            500                 505                 510

Glu Ala Phe Ile Thr Ser Arg Thr Asn Phe Cys Thr Tyr Leu Val Gly
        515                 520                 525

Glu Ser Val Leu Pro Lys Ser Ser Leu Leu Tyr Ser Glu Tyr Thr Val
    530                 535                 540

Leu Asn Glu Ile Asn Asn Leu Gln Ile Ile Ile Asp Gly Lys Asn Ile
545                 550                 555                 560
```

```
Cys Asp Ile Lys Leu Lys Gln Lys Ile Tyr Glu Asp Leu Phe Lys Lys
                565                 570                 575

Tyr Lys Lys Ile Thr Gln Lys Gln Ile Ser Thr Phe Ile Lys His Glu
            580                 585                 590

Gly Ile Cys Asn Lys Thr Asp Glu Val Ile Ile Leu Gly Ile Asp Lys
        595                 600                 605

Glu Cys Thr Ser Ser Leu Lys Ser Tyr Ile Glu Leu Lys Asn Ile Phe
    610                 615                 620

Gly Lys Gln Val Asp Glu Ile Ser Thr Lys Asn Met Leu Glu Glu Ile
625                 630                 635                 640

Ile Arg Trp Ala Thr Ile Tyr Asp Glu Gly Glu Gly Lys Thr Ile Leu
                645                 650                 655

Lys Thr Lys Ile Lys Ala Glu Tyr Gly Lys Tyr Cys Ser Asp Glu Gln
            660                 665                 670

Ile Lys Lys Ile Leu Asn Leu Lys Phe Ser Gly Trp Gly Arg Leu Ser
        675                 680                 685

Arg Lys Phe Leu Glu Thr Val Thr Ser Glu Met Pro Gly Phe Ser Glu
    690                 695                 700

Pro Val Asn Ile Ile Thr Ala Met Arg Glu Thr Gln Asn Asn Leu Met
705                 710                 715                 720

Glu Leu Leu Ser Ser Glu Phe Thr Phe Thr Glu Asn Ile Lys Lys Ile
                725                 730                 735

Asn Ser Gly Phe Glu Asp Ala Glu Lys Gln Phe Ser Tyr Asp Gly Leu
            740                 745                 750

Val Lys Pro Leu Phe Leu Ser Pro Ser Val Lys Lys Met Leu Trp Gln
        755                 760                 765

Thr Leu Lys Leu Val Lys Glu Ile Ser His Ile Thr Gln Ala Pro Pro
    770                 775                 780

Lys Lys Ile Phe Ile Glu Met Ala Lys Gly Ala Glu Leu Glu Pro Ala
785                 790                 795                 800

Arg Thr Lys Thr Arg Leu Lys Ile Leu Gln Asp Leu Tyr Asn Asn Cys
                805                 810                 815

Lys Asn Asp Ala Asp Ala Phe Ser Ser Glu Ile Lys Asp Leu Ser Gly
            820                 825                 830
```

```
Lys Ile Glu Asn Glu Asp Asn Leu Arg Leu Arg Ser Asp Lys Leu Tyr
        835                 840                 845

Leu Tyr Tyr Thr Gln Leu Gly Lys Cys Met Tyr Cys Gly Lys Pro Ile
    850                 855                 860

Glu Ile Gly His Val Phe Asp Thr Ser Asn Tyr Asp Ile Asp His Ile
865                 870                 875                 880

Tyr Pro Gln Ser Lys Ile Lys Asp Asp Ser Ile Ser Asn Arg Val Leu
                885                 890                 895

Val Cys Ser Ser Cys Asn Lys Asn Lys Glu Asp Lys Tyr Pro Leu Lys
            900                 905                 910

Ser Glu Ile Gln Ser Lys Gln Arg Gly Phe Trp Asn Phe Leu Gln Arg
        915                 920                 925

Asn Asn Phe Ile Ser Leu Glu Lys Leu Asn Arg Leu Thr Arg Ala Thr
    930                 935                 940

Pro Ile Ser Asp Asp Glu Thr Ala Lys Phe Ile Ala Arg Gln Leu Val
945                 950                 955                 960

Glu Thr Arg Gln Ala Thr Lys Val Ala Ala Lys Val Leu Glu Lys Met
                965                 970                 975

Phe Pro Glu Thr Lys Ile Val Tyr Ser Lys Ala Glu Thr Val Ser Met
            980                 985                 990

Phe Arg Asn Lys Phe Asp Ile Val  Lys Cys Arg Glu Ile  Asn Asp Phe
        995                 1000                1005

His His  Ala His Asp Ala Tyr  Leu Asn Ile Val Val  Gly Asn Val
    1010                1015                1020

Tyr Asn  Thr Lys Phe Thr Asn  Asn Pro Trp Asn Phe  Ile Lys Glu
    1025                1030                1035

Lys Arg  Asp Asn Pro Lys Ile  Ala Asp Thr Tyr Asn  Tyr Tyr Lys
    1040                1045                1050

Val Phe  Asp Tyr Asp Val Lys  Arg Asn Asn Ile Thr  Ala Trp Glu
    1055                1060                1065

Lys Gly  Lys Thr Ile Ile Thr  Val Lys Asp Met Leu  Lys Arg Asn
    1070                1075                1080

Thr Pro  Ile Tyr Thr Arg Gln  Ala Ala Cys Lys Lys  Gly Glu Leu
    1085                1090                1095
```

```
Phe Asn  Gln Thr Ile Met Lys  Lys Gly Leu Gly Gln  His Pro Leu
    1100                1105                1110

Lys Lys  Glu Gly Pro Phe Ser  Asn Ile Ser Lys Tyr  Gly Gly Tyr
    1115                1120                1125

Asn Lys  Val Ser Ala Ala Tyr  Tyr Thr Leu Ile Glu  Tyr Glu Glu
    1130                1135                1140

Lys Gly  Asn Lys Ile Arg Ser  Leu Glu Thr Ile Pro  Leu Tyr Leu
    1145                1150                1155

Val Lys  Asp Ile Gln Lys Asp  Gln Asp Val Leu Lys  Ser Tyr Leu
    1160                1165                1170

Thr Asp  Leu Leu Gly Lys Lys  Glu Phe Lys Ile Leu  Val Pro Lys
    1175                1180                1185

Ile Lys  Ile Asn Ser Leu Leu  Lys Ile Asn Gly Phe  Pro Cys His
    1190                1195                1200

Ile Thr  Gly Lys Thr Asn Asp  Ser Phe Leu Leu Arg  Pro Ala Val
    1205                1210                1215

Gln Phe  Cys Cys Ser Asn Asn  Glu Val Leu Tyr Phe  Lys Lys Ile
    1220                1225                1230

Ile Arg  Phe Ser Glu Ile Arg  Ser Gln Arg Glu Lys  Ile Gly Lys
    1235                1240                1245

Thr Ile  Ser Pro Tyr Glu Asp  Leu Ser Phe Arg Ser  Tyr Ile Lys
    1250                1255                1260

Glu Asn  Leu Trp Lys Lys Thr  Lys Asn Asp Glu Ile  Gly Glu Lys
    1265                1270                1275

Glu Phe  Tyr Asp Leu Leu Gln  Lys Lys Asn Leu Glu  Ile Tyr Asp
    1280                1285                1290

Met Leu  Leu Thr Lys His Lys  Asp Thr Ile Tyr Lys  Lys Arg Pro
    1295                1300                1305

Asn Ser  Ala Thr Ile Asp Ile  Leu Val Lys Gly Lys  Glu Lys Phe
    1310                1315                1320

Lys Ser  Leu Ile Ile Glu Asn  Gln Phe Glu Val Ile  Leu Glu Ile
    1325                1330                1335

Leu Lys  Leu Phe Ser Ala Thr  Arg Asn Val Ser Asp  Leu Gln His
    1340                1345                1350
```

Ile Gly Gly Ser Lys Tyr Ser Gly Val Ala Lys Ile Gly Asn Lys
    1355   1360   1365

Ile Ser Ser Leu Asp Asn Cys Ile Leu Ile Tyr Gln Ser Ile Thr
    1370   1375   1380

Gly Ile Phe Glu Lys Arg Ile Asp Leu Leu Lys Val
    1385   1390   1395

<210> 329
<211> 1327
<212> PRT
<213> Solobacterium moorei

<400> 329

Met Glu Gly Gln Met Lys Asn Asn Gly Asn Asn Leu Gln Gln Gly Asn
1   5   10   15

Tyr Tyr Leu Gly Leu Asp Val Gly Thr Ser Ser Val Gly Trp Ala Val
            20   25   30

Thr Asp Thr Asp Tyr Asn Val Leu Lys Phe Arg Gly Lys Ser Met Trp
        35   40   45

Gly Ala Arg Leu Phe Asp Glu Ala Ser Thr Ala Glu Glu Arg Arg Thr
    50   55   60

His Arg Gly Asn Arg Arg Arg Leu Ala Arg Arg Lys Tyr Arg Leu Leu
65   70   75   80

Leu Leu Glu Gln Leu Phe Glu Lys Glu Ile Arg Lys Ile Asp Asp Asn
                85   90   95

Phe Phe Val Arg Leu His Glu Ser Asn Leu Trp Ala Asp Asp Lys Ser
            100   105   110

Lys Pro Ser Lys Phe Leu Leu Phe Asn Asp Thr Asn Phe Thr Asp Lys
        115   120   125

Asp Tyr Leu Lys Lys Tyr Pro Thr Ile Tyr His Leu Arg Ser Asp Leu
    130   135   140

Ile His Asn Ser Thr Glu His Asp Ile Arg Leu Val Phe Leu Ala Leu
145   150   155   160

His His Leu Ile Lys Tyr Arg Gly His Phe Ile Tyr Asp Asn Ser Ala
                165   170   175

Asn Gly Asp Val Lys Thr Leu Asp Glu Ala Val Ser Asp Phe Glu Glu
            180   185   190

```
Tyr Leu Asn Glu Asn Asp Ile Glu Phe Asn Ile Glu Asn Lys Lys Glu
        195                 200                 205

Phe Ile Asn Val Leu Ser Asp Lys His Leu Thr Lys Lys Glu Lys Lys
    210                 215                 220

Ile Ser Leu Lys Lys Leu Tyr Gly Asp Ile Thr Asp Ser Glu Asn Ile
225                 230                 235                 240

Asn Ile Ser Val Leu Ile Glu Met Leu Ser Gly Ser Ser Ile Ser Leu
                245                 250                 255

Ser Asn Leu Phe Lys Asp Ile Glu Phe Asp Gly Lys Gln Asn Leu Ser
            260                 265                 270

Leu Asp Ser Asp Ile Glu Glu Thr Leu Asn Asp Val Val Asp Ile Leu
        275                 280                 285

Gly Asp Asn Ile Asp Leu Leu Ile His Ala Lys Glu Val Tyr Asp Ile
    290                 295                 300

Ala Val Leu Thr Ser Ser Leu Gly Lys His Lys Tyr Leu Cys Asp Ala
305                 310                 315                 320

Lys Val Glu Leu Phe Glu Lys Asn Lys Lys Asp Leu Met Ile Leu Lys
                325                 330                 335

Lys Tyr Ile Lys Lys Asn His Pro Glu Asp Tyr Lys Lys Ile Phe Ser
            340                 345                 350

Ser Pro Thr Glu Lys Lys Asn Tyr Ala Ala Tyr Ser Gln Thr Asn Ser
        355                 360                 365

Lys Asn Val Cys Ser Gln Glu Glu Phe Cys Leu Phe Ile Lys Pro Tyr
    370                 375                 380

Ile Arg Asp Met Val Lys Ser Glu Asn Glu Asp Glu Val Arg Ile Ala
385                 390                 395                 400

Lys Glu Val Glu Asp Lys Ser Phe Leu Thr Lys Leu Lys Gly Thr Asn
                405                 410                 415

Asn Ser Val Val Pro Tyr Gln Ile His Glu Arg Glu Leu Asn Gln Ile
            420                 425                 430

Leu Lys Asn Ile Val Ala Tyr Leu Pro Phe Met Asn Asp Glu Gln Glu
        435                 440                 445

Asp Ile Ser Val Val Asp Lys Ile Lys Leu Ile Phe Lys Phe Lys Ile
    450                 455                 460
```

```
Pro Tyr Tyr Val Gly Pro Leu Asn Thr Lys Ser Thr Arg Ser Trp Val
465                 470                 475                 480

Tyr Arg Ser Asp Glu Lys Ile Tyr Pro Trp Asn Phe Ser Asn Val Ile
                485                 490                 495

Asp Leu Asp Lys Thr Ala His Glu Phe Met Asn Arg Leu Ile Gly Arg
            500                 505                 510

Cys Thr Tyr Thr Asn Asp Pro Val Leu Pro Met Asp Ser Leu Leu Tyr
        515                 520                 525

Ser Lys Tyr Asn Val Leu Asn Glu Ile Asn Pro Ile Lys Val Asn Gly
    530                 535                 540

Lys Ala Ile Pro Val Glu Val Lys Gln Ala Ile Tyr Thr Asp Leu Phe
545                 550                 555                 560

Glu Asn Ser Lys Lys Lys Val Thr Arg Lys Ser Ile Tyr Ile Tyr Leu
                565                 570                 575

Leu Lys Asn Gly Tyr Ile Glu Lys Glu Asp Ile Val Ser Gly Ile Asp
            580                 585                 590

Ile Glu Ile Lys Ser Lys Leu Lys Ser His His Asp Phe Thr Gln Ile
        595                 600                 605

Val Gln Glu Asn Lys Cys Thr Pro Glu Glu Ile Glu Arg Ile Ile Lys
    610                 615                 620

Gly Ile Leu Val Tyr Ser Asp Asp Lys Ser Met Leu Arg Arg Trp Leu
625                 630                 635                 640

Lys Asn Asn Ile Lys Gly Leu Ser Glu Asn Asp Val Lys Tyr Leu Ala
                645                 650                 655

Lys Leu Asn Tyr Lys Glu Trp Gly Arg Leu Ser Lys Thr Leu Leu Thr
            660                 665                 670

Asp Ile Tyr Thr Ile Asn Pro Glu Asp Gly Glu Ala Cys Ser Ile Leu
        675                 680                 685

Asp Ile Met Trp Asn Thr Asn Ala Thr Leu Met Glu Ile Leu Ser Asn
    690                 695                 700

Glu Lys Tyr Gln Phe Lys Gln Asn Ile Glu Asn Tyr Lys Ala Glu Asn
705                 710                 715                 720

Tyr Asp Glu Lys Gln Asn Leu His Glu Glu Leu Asp Asp Met Tyr Ile
                725                 730                 735
```

```
Ser Pro Ala Ala Arg Arg Ser Ile Trp Gln Ala Leu Arg Ile Val Asp
            740                 745                 750

Glu Ile Val Asp Ile Lys Lys Ser Ala Pro Lys Lys Ile Phe Ile Glu
        755                 760                 765

Met Ala Arg Glu Lys Lys Ser Ala Met Lys Lys Lys Arg Thr Glu Ser
    770                 775                 780

Arg Lys Asp Thr Leu Leu Glu Leu Tyr Lys Ser Cys Lys Ser Gln Ala
785                 790                 795                 800

Asp Gly Phe Tyr Asp Glu Glu Leu Phe Glu Lys Leu Ser Asn Glu Ser
                805                 810                 815

Asn Ser Arg Leu Arg Arg Asp Gln Leu Tyr Leu Tyr Tyr Thr Gln Met
            820                 825                 830

Gly Arg Ser Met Tyr Thr Gly Lys Arg Ile Asp Phe Asp Lys Leu Ile
        835                 840                 845

Asn Asp Lys Asn Thr Tyr Asp Ile Asp His Ile Tyr Pro Arg Ser Lys
    850                 855                 860

Ile Lys Asp Asp Ser Ile Thr Asn Arg Val Leu Val Glu Lys Asp Ile
865                 870                 875                 880

Asn Gly Glu Lys Thr Asp Ile Tyr Pro Ile Ser Glu Asp Ile Arg Gln
                885                 890                 895

Lys Met Gln Pro Phe Trp Lys Ile Leu Lys Glu Lys Gly Leu Ile Asn
            900                 905                 910

Glu Glu Lys Tyr Lys Arg Leu Thr Arg Asn Tyr Glu Leu Thr Asp Glu
        915                 920                 925

Glu Leu Ser Ser Phe Val Ala Arg Gln Leu Val Glu Thr Gln Gln Ser
    930                 935                 940

Thr Lys Ala Leu Ala Thr Leu Leu Lys Lys Glu Tyr Pro Ser Ala Lys
945                 950                 955                 960

Ile Val Tyr Ser Lys Ala Gly Asn Val Ser Glu Phe Arg Asn Arg Lys
                965                 970                 975

Asp Lys Glu Leu Pro Lys Phe Arg Glu Ile Asn Asp Leu His His Ala
            980                 985                 990

Lys Asp Ala Tyr Leu Asn Ile Val  Val Gly Asn Val Tyr  Asp Thr Lys
        995                 1000                1005
```

```
Phe Thr  Glu Lys Phe Phe Asn  Asn Ile Arg Asn Glu  Asn Tyr Ser
    1010                1015                1020

Leu Lys  Arg Val Phe Asp Phe  Ser Val Pro Gly Ala  Trp Asp Ala
    1025                1030                1035

Lys Gly  Ser Thr Phe Asn Thr  Ile Lys Lys Tyr Met  Ala Lys Asn
    1040                1045                1050

Asn Pro  Ile Ile Ala Phe Ala  Pro Tyr Glu Val Lys  Gly Glu Leu
    1055                1060                1065

Phe Asp  Gln Gln Ile Val Pro  Lys Gly Lys Gly Gln  Phe Pro Ile
    1070                1075                1080

Lys Gln  Gly Lys Asp Ile Glu  Lys Tyr Gly Gly Tyr  Asn Lys Leu
    1085                1090                1095

Ser Ser  Ala Phe Leu Phe Ala  Val Glu Tyr Lys Gly  Lys Lys Ala
    1100                1105                1110

Arg Glu  Arg Ser Leu Glu Thr  Val Tyr Ile Lys Asp  Val Glu Leu
    1115                1120                1125

Tyr Leu  Gln Asp Pro Ile Lys  Tyr Cys Glu Ser Val  Leu Gly Leu
    1130                1135                1140

Lys Glu  Pro Gln Ile Ile Lys  Pro Lys Ile Leu Met  Gly Ser Leu
    1145                1150                1155

Phe Ser  Ile Asn Asn Lys Lys  Leu Val Val Thr Gly  Arg Ser Gly
    1160                1165                1170

Lys Gln  Tyr Val Cys His His  Ile Tyr Gln Leu Ser  Ile Asn Asp
    1175                1180                1185

Glu Asp  Ser Gln Tyr Leu Lys  Asn Ile Ala Lys Tyr  Leu Gln Glu
    1190                1195                1200

Glu Pro  Asp Gly Asn Ile Glu  Arg Gln Asn Ile Leu  Asn Ile Thr
    1205                1210                1215

Ser Val  Asn Asn Ile Lys Leu  Phe Asp Val Leu Cys  Thr Lys Phe
    1220                1225                1230

Asn Ser  Asn Thr Tyr Glu Ile  Ile Leu Asn Ser Leu  Lys Asn Asp
    1235                1240                1245

Val Asn  Glu Gly Arg Glu Lys  Phe Ser Glu Leu Asp  Ile Leu Glu
    1250                1255                1260
```

```
Gln Cys  Asn Ile Leu Leu Gln  Leu Leu Lys Ala Phe  Lys Cys Asn
    1265                1270                1275


Arg Glu  Ser Ser Asn Leu Glu  Lys Leu Asn Asn Lys  Lys Gln Ala
    1280                1285                1290


Gly Val  Ile Val Ile Pro His  Leu Phe Thr Lys Cys  Ser Val Phe
    1295                1300                1305


Lys Val  Ile His Gln Ser Ile  Thr Gly Leu Phe Glu  Lys Glu Met
    1310                1315                1320


Asp Leu  Leu Lys
    1325
```

<210> 330
<211> 1334
<212> PRT
<213> Staphylococcus pseudintermedius

<400> 330

```
Met Gly Arg Lys Pro Tyr Ile Leu Ser Leu Asp Ile Gly Thr Gly Ser
1               5                   10                  15


Val Gly Tyr Ala Cys Met Asp Lys Gly Phe Asn Val Leu Lys Tyr His
            20                  25                  30


Asp Lys Asp Ala Leu Gly Val Tyr Leu Phe Asp Gly Ala Leu Thr Ala
        35                  40                  45


Gln Glu Arg Arg Gln Phe Arg Thr Ser Arg Arg Arg Lys Asn Arg Arg
    50                  55                  60


Ile Lys Arg Leu Gly Leu Leu Gln Glu Leu Leu Ala Pro Leu Val Gln
65                  70                  75                  80


Asn Pro Asn Phe Tyr Gln Phe Gln Arg Gln Phe Ala Trp Lys Asn Asp
                85                  90                  95


Asn Met Asp Phe Lys Asn Lys Ser Leu Ser Glu Val Leu Ser Phe Leu
            100                 105                 110


Gly Tyr Glu Ser Lys Lys Tyr Pro Thr Ile Tyr His Leu Gln Glu Ala
        115                 120                 125


Leu Leu Leu Lys Asp Glu Lys Phe Asp Pro Glu Leu Ile Tyr Met Ala
    130                 135                 140


Leu Tyr His Leu Val Lys Tyr Arg Gly His Phe Leu Phe Asp His Leu
145                 150                 155                 160
```

```
Lys Ile Glu Asn Leu Thr Asn Asn Asp Asn Met His Asp Phe Val Glu
                165                 170                 175

Leu Ile Glu Thr Tyr Glu Asn Leu Asn Asn Ile Lys Leu Asn Leu Asp
            180                 185                 190

Tyr Glu Lys Thr Lys Val Ile Tyr Glu Ile Leu Lys Asp Asn Glu Met
        195                 200                 205

Thr Lys Asn Asp Arg Ala Lys Arg Val Lys Asn Met Glu Lys Lys Leu
    210                 215                 220

Glu Gln Phe Ser Ile Met Leu Leu Gly Leu Lys Phe Asn Glu Gly Lys
225                 230                 235                 240

Leu Phe Asn His Ala Asp Asn Ala Glu Glu Leu Lys Gly Ala Asn Gln
                245                 250                 255

Ser His Thr Phe Ala Asp Asn Tyr Glu Glu Asn Leu Thr Pro Phe Leu
            260                 265                 270

Thr Val Glu Gln Ser Glu Phe Ile Glu Arg Ala Asn Lys Ile Tyr Leu
        275                 280                 285

Ser Leu Thr Leu Gln Asp Ile Leu Lys Gly Lys Lys Ser Met Ala Met
    290                 295                 300

Ser Lys Val Ala Ala Tyr Asp Lys Phe Arg Asn Glu Leu Lys Gln Val
305                 310                 315                 320

Lys Asp Ile Val Tyr Lys Ala Asp Ser Thr Arg Thr Gln Phe Lys Lys
                325                 330                 335

Ile Phe Val Ser Ser Lys Lys Ser Leu Lys Gln Tyr Asp Ala Thr Pro
            340                 345                 350

Asn Asp Gln Thr Phe Ser Ser Leu Cys Leu Phe Asp Gln Tyr Leu Ile
        355                 360                 365

Arg Pro Lys Lys Gln Tyr Ser Leu Leu Ile Lys Glu Leu Lys Lys Ile
    370                 375                 380

Ile Pro Gln Asp Ser Glu Leu Tyr Phe Glu Ala Glu Asn Asp Thr Leu
385                 390                 395                 400

Leu Lys Val Leu Asn Thr Thr Asp Asn Ala Ser Ile Pro Met Gln Ile
                405                 410                 415

Asn Leu Tyr Glu Ala Glu Thr Ile Leu Arg Asn Gln Gln Lys Tyr His
            420                 425                 430
```

```
Ala Glu Ile Thr Asp Glu Met Ile Glu Lys Val Leu Ser Leu Ile Gln
        435                 440                 445

Phe Arg Ile Pro Tyr Tyr Val Gly Pro Leu Val Asn Asp His Thr Ala
    450                 455                 460

Ser Lys Phe Gly Trp Met Glu Arg Lys Ser Asn Glu Ser Ile Lys Pro
465                 470                 475                 480

Trp Asn Phe Asp Glu Val Val Asp Arg Ser Lys Ser Ala Thr Gln Phe
                485                 490                 495

Ile Arg Arg Met Thr Asn Lys Cys Ser Tyr Leu Ile Asn Glu Asp Val
            500                 505                 510

Leu Pro Lys Asn Ser Leu Leu Tyr Gln Glu Met Glu Val Leu Asn Glu
        515                 520                 525

Leu Asn Ala Thr Gln Ile Arg Leu Gln Thr Asp Pro Lys Asn Arg Lys
    530                 535                 540

Tyr Arg Met Met Pro Gln Ile Lys Leu Phe Ala Val Glu His Ile Phe
545                 550                 555                 560

Lys Lys Tyr Lys Thr Val Ser His Ser Lys Phe Leu Glu Ile Met Leu
                565                 570                 575

Asn Ser Asn His Arg Glu Asn Phe Met Asn His Gly Glu Lys Leu Ser
            580                 585                 590

Ile Phe Gly Thr Gln Asp Asp Lys Lys Phe Ala Ser Lys Leu Ser Ser
        595                 600                 605

Tyr Gln Asp Met Thr Lys Ile Phe Gly Asp Ile Glu Gly Lys Arg Ala
    610                 615                 620

Gln Ile Glu Glu Ile Ile Gln Trp Ile Thr Ile Phe Glu Asp Lys Lys
625                 630                 635                 640

Ile Leu Val Gln Lys Leu Lys Glu Cys Tyr Pro Glu Leu Thr Ser Lys
                645                 650                 655

Gln Ile Asn Gln Leu Lys Lys Leu Asn Tyr Ser Gly Trp Gly Arg Leu
            660                 665                 670

Ser Glu Lys Leu Leu Thr His Ala Tyr Gln Gly His Ser Ile Ile Glu
        675                 680                 685

Leu Leu Arg His Ser Asp Glu Asn Phe Met Glu Ile Leu Thr Asn Asp
    690                 695                 700
```

```
Val Tyr Gly Phe Gln Asn Phe Ile Lys Glu Glu Asn Gln Val Gln Ser
705                 710                 715                 720

Asn Lys Ile Gln His Gln Asp Ile Ala Asn Leu Thr Thr Ser Pro Ala
                725                 730                 735

Leu Lys Lys Gly Ile Trp Ser Thr Ile Lys Leu Val Arg Glu Leu Thr
            740                 745                 750

Ser Ile Phe Gly Glu Pro Glu Lys Ile Ile Met Glu Phe Ala Thr Glu
        755                 760                 765

Asp Gln Gln Lys Gly Lys Lys Gln Lys Ser Arg Lys Gln Leu Trp Asp
    770                 775                 780

Asp Asn Ile Lys Lys Asn Lys Leu Lys Ser Val Asp Glu Tyr Lys Tyr
785                 790                 795                 800

Ile Ile Asp Val Ala Asn Lys Leu Asn Asn Glu Gln Leu Gln Gln Glu
                805                 810                 815

Lys Leu Trp Leu Tyr Leu Ser Gln Asn Gly Lys Cys Met Tyr Ser Gly
            820                 825                 830

Gln Ser Ile Asp Leu Asp Ala Leu Leu Ser Pro Asn Ala Thr Lys His
        835                 840                 845

Tyr Glu Val Asp His Ile Phe Pro Arg Ser Phe Ile Lys Asp Asp Ser
    850                 855                 860

Ile Asp Asn Lys Val Leu Val Ile Lys Lys Met Asn Gln Thr Lys Gly
865                 870                 875                 880

Asp Gln Val Pro Leu Gln Phe Ile Gln Gln Pro Tyr Glu Arg Ile Ala
                885                 890                 895

Tyr Trp Lys Ser Leu Asn Lys Ala Gly Leu Ile Ser Asp Ser Lys Leu
            900                 905                 910

His Lys Leu Met Lys Pro Glu Phe Thr Ala Met Asp Lys Glu Gly Phe
        915                 920                 925

Ile Gln Arg Gln Leu Val Glu Thr Arg Gln Ile Ser Val His Val Arg
    930                 935                 940

Asp Phe Leu Lys Glu Glu Tyr Pro Asn Thr Lys Val Ile Pro Met Lys
945                 950                 955                 960

Ala Lys Met Val Ser Glu Phe Arg Lys Lys Phe Asp Ile Pro Lys Ile
                965                 970                 975
```

```
Arg Gln Met Asn Asp Ala His His Ala Ile Asp Ala Tyr Leu Asn Gly
            980                 985                 990

Val Val Tyr His Gly Ala Gln Leu  Ala Tyr Pro Asn Val  Asp Leu Phe
        995                 1000                1005

Asp Phe  Asn Phe Lys Trp Glu  Lys Val Arg Glu Lys  Trp Lys Ala
    1010                1015                1020

Leu Gly  Glu Phe Asn Thr Lys  Gln Lys Ser Arg Glu  Leu Phe Phe
    1025                1030                1035

Phe Lys  Lys Leu Glu Lys Met  Glu Val Ser Gln Gly  Glu Arg Leu
    1040                1045                1050

Ile Ser  Lys Ile Lys Leu Asp  Met Asn His Phe Lys  Ile Asn Tyr
    1055                1060                1065

Ser Arg  Lys Leu Ala Asn Ile  Pro Gln Gln Phe Tyr  Asn Gln Thr
    1070                1075                1080

Ala Val  Ser Pro Lys Thr Ala  Glu Leu Lys Tyr Glu  Ser Asn Lys
    1085                1090                1095

Ser Asn  Glu Val Val Tyr Lys  Gly Leu Thr Pro Tyr  Gln Thr Tyr
    1100                1105                1110

Val Val  Ala Ile Lys Ser Val  Asn Lys Lys Gly Lys  Glu Lys Met
    1115                1120                1125

Glu Tyr  Gln Met Ile Asp His  Tyr Val Phe Asp Phe  Tyr Lys Phe
    1130                1135                1140

Gln Asn  Gly Asn Glu Lys Glu  Leu Ala Leu Tyr Leu  Ala Gln Arg
    1145                1150                1155

Glu Asn  Lys Asp Glu Val Leu  Asp Ala Gln Ile Val  Tyr Ser Leu
    1160                1165                1170

Asn Lys  Gly Asp Leu Leu Tyr  Ile Asn Asn His Pro  Cys Tyr Phe
    1175                1180                1185

Val Ser  Arg Lys Glu Val Ile  Asn Ala Lys Gln Phe  Glu Leu Thr
    1190                1195                1200

Val Glu  Gln Gln Leu Ser Leu  Tyr Asn Val Met Asn  Asn Lys Glu
    1205                1210                1215

Thr Asn  Val Glu Lys Leu Leu  Ile Glu Tyr Asp Phe  Ile Ala Glu
    1220                1225                1230
```

Lys Val Ile Asn Glu Tyr His His Tyr Leu Asn Ser Lys Leu Lys
1235 1240 1245

Glu Lys Arg Val Arg Thr Phe Phe Ser Glu Ser Asn Gln Thr His
1250 1255 1260

Glu Asp Phe Ile Lys Ala Leu Asp Glu Leu Phe Lys Val Val Thr
1265 1270 1275

Ala Ser Ala Thr Arg Ser Asp Lys Ile Gly Ser Arg Lys Asn Ser
1280 1285 1290

Met Thr His Arg Ala Phe Leu Gly Lys Gly Lys Asp Val Lys Ile
1295 1300 1305

Ala Tyr Thr Ser Ile Ser Gly Leu Lys Thr Thr Lys Pro Lys Ser
1310 1315 1320

Leu Phe Lys Leu Ala Glu Ser Arg Asn Glu Leu
1325 1330

<210> 331
<211> 1472
<212> PRT
<213> Flavobacterium branchiophilum

<400> 331

Met Ala Lys Ile Leu Gly Leu Asp Leu Gly Thr Asn Ser Ile Gly Trp
1 5 10 15

Ala Val Val Glu Arg Glu Asn Ile Asp Phe Ser Leu Ile Asp Lys Gly
20 25 30

Val Arg Ile Phe Ser Glu Gly Val Lys Ser Glu Lys Gly Ile Glu Ser
35 40 45

Ser Arg Ala Ala Glu Arg Thr Gly Tyr Arg Ser Ala Arg Lys Ile Lys
50 55 60

Tyr Arg Arg Lys Leu Arg Lys Tyr Glu Thr Leu Lys Val Leu Ser Leu
65 70 75 80

Asn Arg Met Cys Pro Leu Ser Ile Glu Glu Val Glu Glu Trp Lys Lys
85 90 95

Ser Gly Phe Lys Asp Tyr Pro Leu Asn Pro Glu Phe Leu Lys Trp Leu
100 105 110

Ser Thr Asp Glu Glu Ser Asn Val Asn Pro Tyr Phe Phe Arg Asp Arg
115 120 125

Ala Ser Lys His Lys Val Ser Leu Phe Glu Leu Gly Arg Ala Phe Tyr

130 135 140

His Ile Ala Gln Arg Arg Gly Phe Leu Ser Asn Arg Leu Asp Gln Ser
145 150 155 160

Ala Glu Gly Ile Leu Glu Glu His Cys Pro Lys Ile Glu Ala Ile Val
165 170 175

Glu Asp Leu Ile Ser Ile Asp Glu Ile Ser Thr Asn Ile Thr Asp Tyr
180 185 190

Phe Phe Glu Thr Gly Ile Leu Asp Ser Asn Glu Lys Asn Gly Tyr Ala
195 200 205

Lys Asp Leu Asp Glu Gly Asp Lys Lys Leu Val Ser Leu Tyr Lys Ser
210 215 220

Leu Leu Ala Ile Leu Lys Lys Asn Glu Ser Asp Phe Glu Asn Cys Lys
225 230 235 240

Ser Glu Ile Ile Glu Arg Leu Asn Lys Lys Asp Val Leu Gly Lys Val
245 250 255

Lys Gly Lys Ile Lys Asp Ile Ser Gln Ala Met Leu Asp Gly Asn Tyr
260 265 270

Lys Thr Leu Gly Gln Tyr Phe Tyr Ser Leu Tyr Ser Lys Glu Lys Ile
275 280 285

Arg Asn Gln Tyr Thr Ser Arg Glu Glu His Tyr Leu Ser Glu Phe Ile
290 295 300

Thr Ile Cys Lys Val Gln Gly Ile Asp Gln Ile Asn Glu Glu Glu Lys
305 310 315 320

Ile Asn Glu Lys Lys Phe Asp Gly Leu Ala Lys Asp Leu Tyr Lys Ala
325 330 335

Ile Phe Phe Gln Arg Pro Leu Lys Ser Gln Lys Gly Leu Ile Gly Lys
340 345 350

Cys Ser Phe Glu Lys Ser Lys Ser Arg Cys Ala Ile Ser His Pro Asp
355 360 365

Phe Glu Glu Tyr Arg Met Trp Thr Tyr Leu Asn Thr Ile Lys Ile Gly
370 375 380

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

Lys Leu Val Pro Lys Phe Tyr Arg Lys Asn Asp Phe Asn Phe Asp Val

405 410 415

Leu Ala Lys Glu Leu Ile Glu Lys Gly Ser Ser Phe Gly Phe Tyr Lys
420 425 430

Ser Ser Lys Lys Asn Asp Phe Phe Tyr Trp Phe Asn Tyr Lys Pro Thr
435 440 445

Asp Thr Val Ala Ala Cys Gln Val Ala Ala Ser Leu Lys Asn Ala Ile
450 455 460

Gly Glu Asp Trp Lys Thr Lys Ser Phe Lys Tyr Gln Thr Ile Asn Ser
465 470 475 480

Asn Lys Glu Gln Val Ser Arg Thr Val Asp Tyr Lys Asp Leu Trp His
485 490 495

Leu Leu Thr Val Ala Thr Ser Asp Val Tyr Leu Tyr Glu Phe Ala Ile
500 505 510

Asp Lys Leu Gly Leu Asp Glu Lys Asn Ala Lys Ala Phe Ser Lys Thr
515 520 525

Lys Leu Lys Lys Asp Phe Ala Ser Leu Ser Leu Ser Ala Ile Asn Lys
530 535 540

Ile Leu Pro Tyr Leu Lys Glu Gly Leu Leu Tyr Ser His Ala Val Phe
545 550 555 560

Val Ala Asn Ile Glu Asn Ile Val Asp Glu Asn Ile Trp Lys Asp Glu
565 570 575

Lys Gln Arg Asp Tyr Ile Lys Thr Gln Ile Ser Glu Ile Ile Glu Asn
580 585 590

Tyr Thr Leu Glu Lys Ser Arg Phe Glu Ile Ile Asn Gly Leu Leu Lys
595 600 605

Glu Tyr Lys Ser Glu Asn Glu Asp Gly Lys Arg Val Tyr Tyr Ser Lys
610 615 620

Glu Ala Glu Gln Ser Phe Glu Asn Asp Leu Lys Lys Lys Leu Val Leu
625 630 635 640

Phe Tyr Lys Ser Asn Glu Ile Glu Asn Lys Glu Gln Gln Glu Thr Ile
645 650 655

Phe Asn Glu Leu Leu Pro Ile Phe Ile Gln Gln Leu Lys Asp Tyr Glu
660 665 670

Phe Ile Lys Ile Gln Arg Leu Asp Gln Lys Val Leu Ile Phe Leu Lys

675 680 685

Gly Lys Asn Glu Thr Gly Gln Ile Phe Cys Thr Glu Glu Lys Gly Thr
690 695 700

Ala Glu Glu Lys Glu Lys Lys Ile Lys Asn Arg Leu Lys Lys Leu Tyr
705 710 715 720

His Pro Ser Asp Ile Glu Lys Phe Lys Lys Lys Ile Ile Lys Asp Glu
725 730 735

Phe Gly Asn Glu Lys Ile Val Leu Gly Ser Pro Leu Thr Pro Ser Ile
740 745 750

Lys Asn Pro Met Ala Met Arg Ala Leu His Gln Leu Arg Lys Val Leu
755 760 765

Asn Ala Leu Ile Leu Glu Gly Gln Ile Asp Glu Lys Thr Ile Ile His
770 775 780

Ile Glu Met Ala Arg Glu Leu Asn Asp Ala Asn Lys Arg Lys Gly Ile
785 790 795 800

Gln Asp Tyr Gln Asn Asp Asn Lys Lys Phe Arg Glu Asp Ala Ile Lys
805 810 815

Glu Ile Lys Lys Leu Tyr Phe Glu Asp Cys Lys Lys Glu Val Glu Pro
820 825 830

Thr Glu Asp Asp Ile Leu Arg Tyr Gln Leu Trp Met Glu Gln Asn Arg
835 840 845

Ser Glu Ile Tyr Glu Glu Gly Lys Asn Ile Ser Ile Cys Asp Ile Ile
850 855 860

Gly Ser Asn Pro Ala Tyr Asp Ile Glu His Thr Ile Pro Arg Ser Arg
865 870 875 880

Ser Gln Asp Asn Ser Gln Met Asn Lys Thr Leu Cys Ser Gln Arg Phe
885 890 895

Asn Arg Glu Val Lys Lys Gln Ser Met Pro Ile Glu Leu Asn Asn His
900 905 910

Leu Glu Ile Leu Pro Arg Ile Ala His Trp Lys Glu Glu Ala Asp Asn
915 920 925

Leu Thr Arg Glu Ile Glu Ile Ile Ser Arg Ser Ile Lys Ala Ala Ala
930 935 940

Thr Lys Glu Ile Lys Asp Lys Lys Ile Arg Arg Arg His Tyr Leu Thr

945 950 955 960

Leu Lys Arg Asp Tyr Leu Gln Gly Lys Tyr Asp Arg Phe Ile Trp Glu
965 970 975

Glu Pro Lys Val Gly Phe Lys Asn Ser Gln Ile Pro Asp Thr Gly Ile
980 985 990

Ile Thr Lys Tyr Ala Gln Ala Tyr Leu Lys Ser Tyr Phe Lys Lys Val
995 1000 1005

Glu Ser Val Lys Gly Gly Met Val Ala Glu Phe Arg Lys Ile Trp
1010 1015 1020

Gly Ile Gln Glu Ser Phe Ile Asp Glu Asn Gly Met Lys His Tyr
1025 1030 1035

Lys Val Lys Asp Arg Ser Lys His Thr His His Thr Ile Asp Ala
1040 1045 1050

Ile Thr Ile Ala Cys Met Thr Lys Glu Lys Tyr Asp Val Leu Ala
1055 1060 1065

His Ala Trp Thr Leu Glu Asp Gln Gln Asn Lys Lys Glu Ala Arg
1070 1075 1080

Ser Ile Ile Glu Ala Ser Lys Pro Trp Lys Thr Phe Lys Glu Asp
1085 1090 1095

Leu Leu Lys Ile Glu Glu Glu Ile Leu Val Ser His Tyr Thr Pro
1100 1105 1110

Asp Asn Val Lys Lys Gln Ala Lys Lys Ile Val Arg Val Arg Gly
1115 1120 1125

Lys Lys Gln Phe Val Ala Glu Val Glu Arg Asp Val Asn Gly Lys
1130 1135 1140

Ala Val Pro Lys Lys Ala Ala Ser Gly Lys Thr Ile Tyr Lys Leu
1145 1150 1155

Asp Gly Glu Gly Lys Lys Leu Pro Arg Leu Gln Gln Gly Asp Thr
1160 1165 1170

Ile Arg Gly Ser Leu His Gln Asp Ser Ile Tyr Gly Ala Ile Lys
1175 1180 1185

Asn Pro Leu Asn Thr Asp Glu Ile Lys Tyr Val Ile Arg Lys Asp
1190 1195 1200

Leu Glu Ser Ile Lys Gly Ser Asp Val Glu Ser Ile Val Asp Glu

1205 1210 1215

Val Val Lys Glu Lys Ile Lys Glu Ala Ile Ala Asn Lys Val Leu
1220 1225 1230

Leu Leu Ser Ser Asn Ala Gln Gln Lys Asn Lys Leu Val Gly Thr
1235 1240 1245

Val Trp Met Asn Glu Glu Lys Arg Ile Ala Ile Asn Lys Val Arg
1250 1255 1260

Ile Tyr Ala Asn Ser Val Lys Asn Pro Leu His Ile Lys Glu His
1265 1270 1275

Ser Leu Leu Ser Lys Ser Lys His Val His Lys Gln Lys Val Tyr
1280 1285 1290

Gly Gln Asn Asp Glu Asn Tyr Ala Met Ala Ile Tyr Glu Leu Asp
1295 1300 1305

Gly Lys Arg Asp Phe Glu Leu Ile Asn Ile Phe Asn Leu Ala Lys
1310 1315 1320

Leu Ile Lys Gln Gly Gln Gly Phe Tyr Pro Leu His Lys Lys Lys
1325 1330 1335

Glu Ile Lys Gly Lys Ile Val Phe Val Pro Ile Glu Lys Arg Asn
1340 1345 1350

Lys Arg Asp Val Val Leu Lys Arg Gly Gln Gln Val Val Phe Tyr
1355 1360 1365

Asp Lys Glu Val Glu Asn Pro Lys Asp Ile Ser Glu Ile Val Asp
1370 1375 1380

Phe Lys Gly Arg Ile Tyr Ile Ile Glu Gly Leu Ser Ile Gln Arg
1385 1390 1395

Ile Val Arg Pro Ser Gly Lys Val Asp Glu Tyr Gly Val Ile Met
1400 1405 1410

Leu Arg Tyr Phe Lys Glu Ala Arg Lys Ala Asp Asp Ile Lys Gln
1415 1420 1425

Asp Asn Phe Lys Pro Asp Gly Val Phe Lys Leu Gly Glu Asn Lys
1430 1435 1440

Pro Thr Arg Lys Met Asn His Gln Phe Thr Ala Phe Val Glu Gly
1445 1450 1455

Ile Asp Phe Lys Val Leu Pro Ser Gly Lys Phe Glu Lys Ile

1460 1465 1470

<210> 332
<211> 1688
<212> PRT
<213> Ignavibacterium album

<400> 332

Met Glu Phe Lys Lys Val Leu Gly Leu Asp Ile Gly Thr Asn Ser Ile
1 5 10 15

Gly Cys Ala Leu Leu Ser Leu Pro Lys Ser Ile Gln Asp Tyr Gly Lys
20 25 30

Gly Gly Arg Leu Glu Trp Leu Thr Ser Arg Val Ile Pro Leu Asp Ala
35 40 45

Asp Tyr Met Lys Ala Phe Ile Asp Gly Lys Asn Gly Leu Pro Gln Val
50 55 60

Ile Thr Pro Ala Gly Lys Arg Arg Gln Lys Arg Gly Ser Arg Arg Leu
65 70 75 80

Lys His Arg Tyr Lys Leu Arg Arg Ser Arg Leu Ile Arg Val Phe Lys
85 90 95

Thr Leu Asn Trp Leu Pro Glu Asp Phe Pro Leu Asp Asn Pro Lys Arg
100 105 110

Ile Lys Glu Thr Ile Ser Thr Glu Gly Lys Phe Ser Phe Arg Ile Ser
115 120 125

Asp Tyr Val Pro Ile Ser Asp Glu Ser Tyr Arg Glu Phe Tyr Arg Glu
130 135 140

Phe Gly Tyr Pro Glu Asn Glu Ile Glu Gln Val Ile Glu Glu Ile Asn
145 150 155 160

Phe Arg Arg Lys Thr Lys Gly Lys Asn Lys Asn Pro Met Ile Lys Leu
165 170 175

Leu Pro Glu Asp Trp Val Val Tyr Tyr Leu Arg Lys Lys Ala Leu Ile
180 185 190

Lys Pro Thr Thr Lys Glu Glu Leu Ile Arg Ile Ile Tyr Leu Phe Asn
195 200 205

Gln Arg Arg Gly Phe Lys Ser Ser Arg Lys Asp Leu Thr Glu Thr Ala
210 215 220

Ile Leu Asp Tyr Asp Glu Phe Ala Lys Arg Leu Ala Glu Lys Glu Lys
225 230 235 240

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Tyr Ser Ala Glu Asn Tyr Glu Thr Lys Phe Val Ser Ile Thr Lys Val
                245                 250                 255

Lys Glu Val Val Glu Leu Lys Thr Asp Gly Arg Lys Gly Lys Lys Arg
            260                 265                 270

Phe Lys Val Ile Leu Glu Asp Ser Arg Ile Glu Pro Tyr Glu Ile Glu
        275                 280                 285

Arg Lys Glu Lys Pro Asp Trp Glu Gly Lys Glu Tyr Thr Phe Leu Val
    290                 295                 300

Thr Gln Lys Leu Glu Lys Gly Lys Phe Lys Gln Asn Lys Pro Asp Leu
305                 310                 315                 320

Pro Lys Glu Glu Asp Trp Ala Leu Cys Thr Thr Ala Leu Asp Asn Arg
                325                 330                 335

Met Gly Ser Lys His Pro Gly Glu Phe Phe Phe Asp Glu Leu Leu Lys
            340                 345                 350

Ala Phe Lys Glu Lys Arg Gly Tyr Lys Ile Arg Gln Tyr Pro Val Asn
        355                 360                 365

Arg Trp Arg Tyr Lys Lys Glu Leu Glu Phe Ile Trp Thr Lys Gln Cys
    370                 375                 380

Gln Leu Asn Pro Glu Leu Asn Asn Leu Asn Ile Asn Lys Glu Ile Leu
385                 390                 395                 400

Arg Lys Leu Ala Thr Val Leu Tyr Pro Ser Gln Ser Lys Phe Phe Gly
                405                 410                 415

Pro Lys Ile Lys Glu Phe Glu Asn Ser Asp Val Leu His Ile Ile Ser
            420                 425                 430

Glu Asp Ile Ile Tyr Tyr Gln Arg Asp Leu Lys Ser Gln Lys Ser Leu
        435                 440                 445

Ile Ser Glu Cys Arg Tyr Glu Lys Arg Lys Gly Ile Asp Gly Glu Ile
    450                 455                 460

Tyr Gly Leu Lys Cys Ile Pro Lys Ser Ser Pro Leu Tyr Gln Glu Phe
465                 470                 475                 480

Arg Ile Trp Gln Asp Ile His Asn Ile Lys Val Ile Arg Lys Glu Ser
                485                 490                 495

Glu Val Asn Gly Lys Lys Lys Ile Asn Ile Asp Glu Thr Gln Leu Tyr
            500                 505                 510
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Ile Asn Glu Asn Ile Lys Glu Lys Leu Phe Glu Leu Phe Asn Ser Lys
        515                 520                 525

Asp Ser Leu Ser Glu Lys Asp Ile Leu Glu Leu Ile Ser Leu Asn Ile
    530                 535                 540

Ile Asn Ser Gly Ile Lys Ile Ser Lys Lys Glu Glu Glu Thr Thr His
545                 550                 555                 560

Arg Ile Asn Leu Phe Ala Asn Arg Lys Glu Leu Lys Gly Asn Glu Thr
                565                 570                 575

Lys Ser Arg Tyr Arg Lys Val Phe Lys Lys Leu Gly Phe Asp Gly Glu
            580                 585                 590

Tyr Ile Leu Asn His Pro Ser Lys Leu Asn Arg Leu Trp His Ser Asp
        595                 600                 605

Tyr Ser Asn Asp Tyr Ala Asp Lys Glu Lys Thr Glu Lys Ser Ile Leu
    610                 615                 620

Ser Ser Leu Gly Trp Lys Asn Arg Asn Gly Lys Trp Glu Lys Ser Lys
625                 630                 635                 640

Asn Tyr Asp Val Phe Asn Leu Pro Leu Glu Val Ala Lys Ala Ile Ala
                645                 650                 655

Asn Leu Pro Pro Leu Lys Lys Glu Tyr Gly Ser Tyr Ser Ala Leu Ala
            660                 665                 670

Ile Arg Lys Met Leu Val Val Met Arg Asp Gly Lys Tyr Trp Gln His
        675                 680                 685

Pro Asp Gln Ile Ala Lys Asp Gln Glu Asn Thr Ser Leu Met Leu Phe
    690                 695                 700

Asp Lys Asn Leu Ile Gln Leu Thr Asn Asn Gln Arg Lys Val Leu Asn
705                 710                 715                 720

Lys Tyr Leu Leu Thr Leu Ala Glu Val Gln Lys Arg Ser Thr Leu Ile
                725                 730                 735

Lys Gln Lys Leu Asn Glu Ile Glu His Asn Pro Tyr Lys Leu Glu Leu
            740                 745                 750

Val Ser Asp Gln Asp Leu Glu Lys Gln Val Leu Lys Ser Phe Leu Glu
        755                 760                 765

Lys Lys Asn Glu Ser Asp Tyr Leu Lys Gly Leu Lys Thr Tyr Gln Ala
    770                 775                 780
```

```
Gly Tyr Leu Ile Tyr Gly Lys His Ser Glu Lys Asp Val Pro Ile Val
785                 790                 795                 800

Asn Ser Pro Asp Glu Leu Gly Glu Tyr Ile Arg Lys Lys Leu Pro Asn
                805                 810                 815

Asn Ser Leu Arg Asn Pro Ile Val Glu Gln Val Ile Arg Glu Thr Ile
            820                 825                 830

Phe Ile Val Arg Asp Val Trp Lys Ser Phe Gly Ile Ile Asp Glu Ile
        835                 840                 845

His Ile Glu Leu Gly Arg Glu Leu Lys Asn Asn Ser Glu Glu Arg Lys
    850                 855                 860

Lys Thr Ser Glu Ser Gln Glu Lys Asn Phe Gln Glu Lys Glu Arg Ala
865                 870                 875                 880

Arg Lys Leu Leu Lys Glu Leu Leu Asn Ser Ser Asn Phe Glu His Tyr
                885                 890                 895

Asp Glu Asn Gly Asn Lys Ile Phe Ser Ser Phe Thr Val Asn Pro Asn
            900                 905                 910

Pro Asp Ser Pro Leu Asp Ile Glu Lys Phe Arg Ile Trp Lys Asn Gln
        915                 920                 925

Ser Gly Leu Thr Asp Glu Glu Leu Asn Lys Lys Leu Lys Asp Glu Lys
    930                 935                 940

Ile Pro Thr Glu Ile Glu Val Lys Lys Tyr Ile Leu Trp Leu Thr Gln
945                 950                 955                 960

Lys Cys Arg Ser Pro Tyr Thr Gly Lys Ile Ile Pro Leu Ser Lys Leu
                965                 970                 975

Phe Asp Ser Asn Val Tyr Glu Ile Glu His Ile Ile Pro Arg Ser Lys
            980                 985                 990

Met Lys Asn Asp Ser Thr Asn Asn  Leu Val Ile Cys Glu  Leu Gly Val
        995                 1000                1005

Asn Lys  Ala Lys Gly Asp Arg  Leu Ala Ala Asn Phe  Ile Ser Glu
    1010                1015                1020

Ser Asn  Gly Lys Cys Lys Phe  Gly Glu Val Glu Tyr  Thr Leu Leu
    1025                1030                1035

Lys Tyr  Gly Asp Tyr Leu Gln  Tyr Cys Lys Asp Thr  Phe Lys Tyr
    1040                1045                1050
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```
Gln Lys  Ala Lys Tyr Lys Asn  Leu Leu Ala Thr Glu  Pro Pro Glu
    1055                 1060                 1065

Asp Phe  Ile Glu Arg Gln Ile  Asn Asp Thr Arg Tyr  Ile Gly Arg
    1070                 1075                 1080

Lys Leu  Ala Glu Leu Leu Thr  Pro Val Val Lys Asp  Ser Lys Asn
    1085                 1090                 1095

Ile Ile  Phe Thr Ile Gly Ser  Ile Thr Ser Glu Leu  Lys Ile Thr
    1100                 1105                 1110

Trp Gly  Leu Asn Gly Val Trp  Lys Asp Ile Leu Arg  Pro Arg Phe
    1115                 1120                 1125

Lys Arg  Leu Glu Ser Ile Ile  Asn Lys Lys Leu Ile  Phe Gln Asp
    1130                 1135                 1140

Glu Asp  Asp Pro Asn Lys Tyr  His Phe Asp Leu Ser  Ile Asn Pro
    1145                 1150                 1155

Gln Leu  Asp Lys Glu Gly Leu  Lys Arg Leu Asp His  Arg His His
    1160                 1165                 1170

Ala Leu  Asp Ala Thr Ile Ile  Ala Ala Thr Thr Arg  Glu His Val
    1175                 1180                 1185

Arg Tyr  Leu Asn Ser Leu Asn  Ala Ala Asp Asn Asp  Glu Glu Lys
    1190                 1195                 1200

Arg Glu  Tyr Phe Leu Ser Leu  Cys Asn His Lys Ile  Arg Asp Phe
    1205                 1210                 1215

Lys Leu  Pro Trp Glu Asn Phe  Thr Ser Glu Val Lys  Ser Lys Leu
    1220                 1225                 1230

Leu Ser  Cys Val Val Ser Tyr  Lys Glu Ser Lys Pro  Ile Leu Ser
    1235                 1240                 1245

Asp Pro  Phe Asn Lys Tyr Leu  Lys Trp Glu Tyr Lys  Asn Gly Lys
    1250                 1255                 1260

Trp Gln  Lys Val Phe Ala Ile  Gln Ile Lys Asn Asp  Arg Trp Lys
    1265                 1270                 1275

Ala Val  Arg Arg Ser Met Phe  Lys Glu Pro Ile Gly  Thr Val Trp
    1280                 1285                 1290

Ile Lys  Lys Ile Lys Glu Val  Ser Leu Lys Glu Ala  Ile Lys Ile
    1295                 1300                 1305
```

```
Gln Ala  Ile Trp Glu Glu Val  Lys Asn Asp Pro Val  Arg Lys Lys
    1310                1315                1320

Lys Glu  Lys Tyr Ile Tyr Asp  Asp Tyr Ala Gln Lys  Val Ile Ala
    1325                1330                1335

Lys Ile  Val Gln Glu Leu Gly  Leu Ser Ser Ser Met  Arg Lys Gln
    1340                1345                1350

Asp Asp  Glu Lys Leu Asn Lys  Phe Ile Asn Glu Ala  Lys Val Ser
    1355                1360                1365

Ala Gly  Val Asn Lys Asn Leu  Asn Thr Thr Asn Lys  Thr Ile Tyr
    1370                1375                1380

Asn Leu  Glu Gly Arg Phe Tyr  Glu Lys Ile Lys Val  Ala Glu Tyr
    1385                1390                1395

Val Leu  Tyr Lys Ala Lys Arg  Met Pro Leu Asn Lys  Lys Glu Tyr
    1400                1405                1410

Ile Glu  Lys Leu Ser Leu Gln  Lys Met Phe Asn Asp  Leu Pro Asn
    1415                1420                1425

Phe Ile  Leu Glu Lys Ser Ile  Leu Asp Asn Tyr Pro  Glu Ile Leu
    1430                1435                1440

Lys Glu  Leu Glu Ser Asp Asn  Lys Tyr Ile Ile Glu  Pro His Lys
    1445                1450                1455

Lys Asn  Asn Pro Val Asn Arg  Leu Leu Leu Glu His  Ile Leu Glu
    1460                1465                1470

Tyr His  Asn Asn Pro Lys Glu  Ala Phe Ser Thr Glu  Gly Leu Glu
    1475                1480                1485

Lys Leu  Asn Lys Lys Ala Ile  Asn Lys Ile Gly Lys  Pro Ile Lys
    1490                1495                1500

Tyr Ile  Thr Arg Leu Asp Gly  Asp Ile Asn Glu Glu  Glu Ile Phe
    1505                1510                1515

Arg Gly  Ala Val Phe Glu Thr  Asp Lys Gly Ser Asn  Val Tyr Phe
    1520                1525                1530

Val Met  Tyr Glu Asn Asn Gln  Thr Lys Asp Arg Glu  Phe Leu Lys
    1535                1540                1545

Pro Asn  Pro Ser Ile Ser Val  Leu Lys Ala Ile Glu  His Lys Asn
    1550                1555                1560
```

```
Lys Ile  Asp Phe Phe Ala Pro  Asn Arg Leu Gly Phe  Ser Arg Ile
    1565                1570                1575

Ile Leu  Ser Pro Gly Asp Leu  Val Tyr Val Pro Thr  Asn Asp Gln
    1580                1585                1590

Tyr Val  Leu Ile Lys Asp Asn  Ser Ser Asn Glu Thr  Ile Ile Asn
    1595                1600                1605

Trp Asp  Asp Asn Glu Phe Ile  Ser Asn Arg Ile Tyr  Gln Val Lys
    1610                1615                1620

Lys Phe  Thr Gly Asn Ser Cys  Tyr Phe Leu Lys Asn  Asp Ile Ala
    1625                1630                1635

Ser Leu  Ile Leu Ser Tyr Ser  Ala Ser Asn Gly Val  Gly Glu Phe
    1640                1645                1650

Gly Ser  Gln Asn Ile Ser Glu  Tyr Ser Val Asp Asp  Pro Pro Ile
    1655                1660                1665

Arg Ile  Lys Asp Val Cys Ile  Lys Ile Arg Val Asp  Arg Leu Gly
    1670                1675                1680

Asn Val  Arg Pro Leu
    1685
```

<210> 333
<211> 1415
<212> PRT
<213> Bergeyella zoohelcum

<400> 333

```
Met Lys His Ile Leu Gly Leu Asp Leu Gly Thr Asn Ser Ile Gly Trp
1               5                   10                  15

Ala Leu Ile Glu Arg Asn Ile Glu Glu Lys Tyr Gly Lys Ile Ile Gly
            20                  25                  30

Met Gly Ser Arg Ile Val Pro Met Gly Ala Glu Leu Ser Lys Phe Glu
        35                  40                  45

Gln Gly Gln Ala Gln Thr Lys Asn Ala Asp Arg Arg Thr Asn Arg Gly
    50                  55                  60

Ala Arg Arg Leu Asn Lys Arg Tyr Lys Gln Arg Arg Asn Lys Leu Ile
65                  70                  75                  80

Tyr Ile Leu Gln Lys Leu Asp Met Leu Pro Ser Gln Ile Lys Leu Lys
                85                  90                  95
```

```
Glu Asp Phe Ser Asp Pro Asn Lys Ile Asp Lys Ile Thr Ile Leu Pro
            100                 105                 110

Ile Ser Lys Lys Gln Glu Gln Leu Thr Ala Phe Asp Leu Val Ser Leu
        115                 120                 125

Arg Val Lys Ala Leu Thr Glu Lys Val Gly Leu Glu Asp Leu Gly Lys
    130                 135                 140

Ile Ile Tyr Lys Tyr Asn Gln Leu Arg Gly Tyr Ala Gly Gly Ser Leu
145                 150                 155                 160

Glu Pro Glu Lys Glu Asp Ile Phe Asp Glu Glu Gln Ser Lys Asp Lys
                165                 170                 175

Lys Asn Lys Ser Phe Ile Ala Phe Ser Lys Ile Val Phe Leu Gly Glu
            180                 185                 190

Pro Gln Glu Glu Ile Phe Lys Asn Lys Lys Leu Asn Arg Arg Ala Ile
        195                 200                 205

Ile Val Glu Thr Glu Glu Gly Asn Phe Glu Gly Ser Thr Phe Leu Glu
    210                 215                 220

Asn Ile Lys Val Gly Asp Ser Leu Glu Leu Leu Ile Asn Ile Ser Ala
225                 230                 235                 240

Ser Lys Ser Gly Asp Thr Ile Thr Ile Lys Leu Pro Asn Lys Thr Asn
                245                 250                 255

Trp Arg Lys Lys Met Glu Asn Ile Glu Asn Gln Leu Lys Glu Lys Ser
            260                 265                 270

Lys Glu Met Gly Arg Glu Phe Tyr Ile Ser Glu Phe Leu Leu Glu Leu
        275                 280                 285

Leu Lys Glu Asn Arg Trp Ala Lys Ile Arg Asn Asn Thr Ile Leu Arg
    290                 295                 300

Ala Arg Tyr Glu Ser Glu Phe Glu Ala Ile Trp Asn Glu Gln Val Lys
305                 310                 315                 320

His Tyr Pro Phe Leu Glu Asn Leu Asp Lys Lys Thr Leu Ile Glu Ile
                325                 330                 335

Val Ser Phe Ile Phe Pro Gly Glu Lys Glu Ser Gln Lys Lys Tyr Arg
            340                 345                 350

Glu Leu Gly Leu Glu Lys Gly Leu Lys Tyr Ile Ile Lys Asn Gln Val
        355                 360                 365
```

```
Val Phe Tyr Gln Arg Glu Leu Lys Asp Gln Ser His Leu Ile Ser Asp
    370                 375                 380

Cys Arg Tyr Glu Pro Asn Glu Lys Ala Ile Ala Lys Ser His Pro Val
385                 390                 395                 400

Phe Gln Glu Tyr Lys Val Trp Glu Gln Ile Asn Lys Leu Ile Val Asn
                405                 410                 415

Thr Lys Ile Glu Ala Gly Thr Asn Arg Lys Gly Glu Lys Lys Tyr Lys
            420                 425                 430

Tyr Ile Asp Arg Pro Ile Pro Thr Ala Leu Lys Glu Trp Ile Phe Glu
        435                 440                 445

Glu Leu Gln Asn Lys Lys Glu Ile Thr Phe Ser Ala Ile Phe Lys Lys
    450                 455                 460

Leu Lys Ala Glu Phe Asp Leu Arg Glu Gly Ile Asp Phe Leu Asn Gly
465                 470                 475                 480

Met Ser Pro Lys Asp Lys Leu Lys Gly Asn Glu Thr Lys Leu Gln Leu
                485                 490                 495

Gln Lys Ser Leu Gly Glu Leu Trp Asp Val Leu Gly Leu Asp Ser Ile
            500                 505                 510

Asn Arg Gln Ile Glu Leu Trp Asn Ile Leu Tyr Asn Glu Lys Gly Asn
        515                 520                 525

Glu Tyr Asp Leu Thr Ser Asp Arg Thr Ser Lys Val Leu Glu Phe Ile
    530                 535                 540

Asn Lys Tyr Gly Asn Asn Ile Val Asp Asp Asn Ala Glu Glu Thr Ala
545                 550                 555                 560

Ile Arg Ile Ser Lys Ile Lys Phe Ala Arg Ala Tyr Ser Ser Leu Ser
                565                 570                 575

Leu Lys Ala Val Glu Arg Ile Leu Pro Leu Val Arg Ala Gly Lys Tyr
            580                 585                 590

Phe Asn Asn Asp Phe Ser Gln Gln Leu Gln Ser Lys Ile Leu Lys Leu
        595                 600                 605

Leu Asn Glu Asn Val Glu Asp Pro Phe Ala Lys Ala Ala Gln Thr Tyr
    610                 615                 620

Leu Asp Asn Asn Gln Ser Val Leu Ser Glu Gly Gly Val Gly Asn Ser
625                 630                 635                 640
```

```
Ile Ala Thr Ile Leu Val Tyr Asp Lys His Thr Ala Lys Glu Tyr Ser
                645                 650                 655

His Asp Glu Leu Tyr Lys Ser Tyr Lys Glu Ile Asn Leu Leu Lys Gln
            660                 665                 670

Gly Asp Leu Arg Asn Pro Leu Val Glu Gln Ile Ile Asn Glu Ala Leu
        675                 680                 685

Val Leu Ile Arg Asp Ile Trp Lys Asn Tyr Gly Ile Lys Pro Asn Glu
    690                 695                 700

Ile Arg Val Glu Leu Ala Arg Asp Leu Lys Asn Ser Ala Lys Glu Arg
705                 710                 715                 720

Ala Thr Ile His Lys Arg Asn Lys Asp Asn Gln Thr Ile Asn Asn Lys
                725                 730                 735

Ile Lys Glu Thr Leu Val Lys Asn Lys Lys Glu Leu Ser Leu Ala Asn
            740                 745                 750

Ile Glu Lys Val Lys Leu Trp Glu Ala Gln Arg His Leu Ser Pro Tyr
        755                 760                 765

Thr Gly Gln Pro Ile Pro Leu Ser Asp Leu Phe Asp Lys Glu Lys Tyr
    770                 775                 780

Asp Val Asp His Ile Ile Pro Ile Ser Arg Tyr Phe Asp Asp Ser Phe
785                 790                 795                 800

Thr Asn Lys Val Ile Ser Glu Lys Ser Val Asn Gln Glu Lys Ala Asn
                805                 810                 815

Arg Thr Ala Met Glu Tyr Phe Glu Val Gly Ser Leu Lys Tyr Ser Ile
            820                 825                 830

Phe Thr Lys Glu Gln Phe Ile Ala His Val Asn Glu Tyr Phe Ser Gly
        835                 840                 845

Val Lys Arg Lys Asn Leu Leu Ala Thr Ser Ile Pro Glu Asp Pro Val
    850                 855                 860

Gln Arg Gln Ile Lys Asp Thr Gln Tyr Ile Ala Ile Arg Val Lys Glu
865                 870                 875                 880

Glu Leu Asn Lys Ile Val Gly Asn Glu Asn Val Lys Thr Thr Thr Gly
                885                 890                 895

Ser Ile Thr Asp Tyr Leu Arg Asn His Trp Gly Leu Thr Asp Lys Phe
            900                 905                 910
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Lys Leu Leu Leu Lys Glu Arg Tyr Glu Ala Leu Leu Glu Ser Glu Lys
        915                 920                 925

Phe Leu Glu Ala Glu Tyr Asp Asn Tyr Lys Lys Asp Phe Asp Ser Arg
    930                 935                 940

Lys Lys Glu Tyr Glu Glu Lys Glu Val Leu Phe Glu Glu Gln Glu Leu
945                 950                 955                 960

Thr Arg Glu Glu Phe Ile Lys Glu Tyr Lys Glu Asn Tyr Ile Arg Tyr
                965                 970                 975

Lys Lys Asn Lys Leu Ile Ile Lys Gly Trp Ser Lys Arg Ile Asp His
            980                 985                 990

Arg His His Ala Ile Asp Ala Leu  Ile Val Ala Cys Thr  Glu Pro Ala
        995                 1000                1005

His Ile  Lys Arg Leu Asn Asp  Leu Asn Lys Val Leu  Gln Asp Trp
    1010                1015                1020

Leu Val  Glu His Lys Ser Glu  Phe Met Pro Asn Phe  Glu Gly Ser
    1025                1030                1035

Asn Ser  Glu Leu Leu Glu Glu  Ile Leu Ser Leu Pro  Glu Asn Glu
    1040                1045                1050

Arg Thr  Glu Ile Phe Thr Gln  Ile Glu Lys Phe Arg  Ala Ile Glu
    1055                1060                1065

Met Pro  Trp Lys Gly Phe Pro  Glu Gln Val Glu Gln  Lys Leu Lys
    1070                1075                1080

Glu Ile  Ile Ile Ser His Lys  Pro Lys Asp Lys Leu  Leu Leu Gln
    1085                1090                1095

Tyr Asn  Lys Ala Gly Asp Arg  Gln Ile Lys Leu Arg  Gly Gln Leu
    1100                1105                1110

His Glu  Gly Thr Leu Tyr Gly  Ile Ser Gln Gly Lys  Glu Ala Tyr
    1115                1120                1125

Arg Ile  Pro Leu Thr Lys Phe  Gly Gly Ser Lys Phe  Ala Thr Glu
    1130                1135                1140

Lys Asn  Ile Gln Lys Ile Val  Ser Pro Phe Leu Ser  Gly Phe Ile
    1145                1150                1155

Ala Asn  His Leu Lys Glu Tyr  Asn Asn Lys Lys Glu  Glu Ala Phe
    1160                1165                1170
```

```
Ser Ala  Glu Gly Ile Met Asp  Leu Asn Asn Lys Leu  Ala Gln Tyr
    1175                1180                1185

Arg Asn  Glu Lys Gly Glu Leu  Lys Pro His Thr Pro  Ile Ser Thr
    1190                1195                1200

Val Lys  Ile Tyr Tyr Lys Asp  Pro Ser Lys Asn Lys  Lys Lys Lys
    1205                1210                1215

Asp Glu  Glu Asp Leu Ser Leu  Gln Lys Leu Asp Arg  Glu Lys Ala
    1220                1225                1230

Phe Asn  Glu Lys Leu Tyr Val  Lys Thr Gly Asp Asn  Tyr Leu Phe
    1235                1240                1245

Ala Val  Leu Glu Gly Glu Ile  Lys Thr Lys Lys Thr  Ser Gln Ile
    1250                1255                1260

Lys Arg  Leu Tyr Asp Ile Ile  Ser Phe Phe Asp Ala  Thr Asn Phe
    1265                1270                1275

Leu Lys  Glu Glu Phe Arg Asn  Ala Pro Asp Lys Lys  Thr Phe Asp
    1280                1285                1290

Lys Asp  Leu Leu Phe Arg Gln  Tyr Phe Glu Glu Arg  Asn Lys Ala
    1295                1300                1305

Lys Leu  Leu Phe Thr Leu Lys  Gln Gly Asp Phe Val  Tyr Leu Pro
    1310                1315                1320

Asn Glu  Asn Glu Glu Val Ile  Leu Asp Lys Glu Ser  Pro Leu Tyr
    1325                1330                1335

Asn Gln  Tyr Trp Gly Asp Leu  Lys Glu Arg Gly Lys  Asn Ile Tyr
    1340                1345                1350

Val Val  Gln Lys Phe Ser Lys  Lys Gln Ile Tyr Phe  Ile Lys His
    1355                1360                1365

Thr Ile  Ala Asp Ile Ile Lys  Lys Asp Val Glu Phe  Gly Ser Gln
    1370                1375                1380

Asn Cys  Tyr Glu Thr Val Glu  Gly Arg Ser Ile Lys  Glu Asn Cys
    1385                1390                1395

Phe Lys  Leu Glu Ile Asp Arg  Leu Gly Asn Ile Val  Lys Val Ile
    1400                1405                1410

Lys Arg
    1415
```

<210> 334
<211> 1166
<212> PRT
<213> Nitrobacter hamburgensis

<400> 334

```
Met His Val Glu Ile Asp Phe Pro His Phe Ser Arg Gly Asp Ser His
1               5                  10                  15

Leu Ala Met Asn Lys Asn Glu Ile Leu Arg Gly Ser Ser Val Leu Tyr
            20                  25                  30

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

His Leu Glu Lys Arg Gly Asp Arg His Glu Pro Val Ala Leu Gly Pro
    50                  55                  60

Gly Gly Val Arg Ile Phe Pro Asp Gly Arg Asp Pro Gln Ser Gly Thr
65                  70                  75                  80

Ser Asn Ala Val Asp Arg Arg Met Ala Arg Gly Ala Arg Lys Arg Arg
                85                  90                  95

Asp Arg Phe Val Glu Arg Arg Lys Glu Leu Ile Ala Ala Leu Ile Lys
            100                 105                 110

Tyr Asn Leu Leu Pro Asp Asp Ala Arg Glu Arg Arg Ala Leu Glu Val
        115                 120                 125

Leu Asp Pro Tyr Ala Leu Arg Lys Thr Ala Leu Thr Asp Thr Leu Pro
    130                 135                 140

Ala His His Val Gly Arg Ala Leu Phe His Leu Asn Gln Arg Arg Gly
145                 150                 155                 160

Phe Gln Ser Asn Arg Lys Thr Asp Ser Lys Gln Ser Glu Asp Gly Ala
                165                 170                 175

Ile Lys Gln Ala Ala Ser Arg Leu Ala Thr Asp Lys Gly Asn Glu Thr
            180                 185                 190

Leu Gly Val Phe Phe Ala Asp Met His Leu Arg Lys Ser Tyr Glu Asp
        195                 200                 205

Arg Gln Thr Ala Ile Arg Ala Glu Leu Val Arg Leu Gly Lys Asp His
    210                 215                 220

Leu Thr Gly Asn Ala Arg Lys Lys Ile Trp Ala Lys Val Arg Lys Arg
225                 230                 235                 240
```

```
Leu Phe Gly Asp Glu Val Leu Pro Arg Ala Asp Ala Pro His Gly Val
                245                 250                 255

Arg Ala Arg Ala Thr Ile Thr Gly Thr Lys Ala Ser Tyr Asp Tyr Tyr
            260                 265                 270

Pro Thr Arg Asp Met Leu Arg Asp Glu Phe Asn Ala Ile Trp Ala Gly
        275                 280                 285

Gln Ser Ala His His Ala Thr Ile Thr Asp Glu Ala Arg Thr Glu Ile
    290                 295                 300

Glu His Ile Ile Phe Tyr Gln Arg Pro Leu Lys Pro Ala Ile Val Gly
305                 310                 315                 320

Lys Cys Thr Leu Asp Pro Ala Thr Arg Pro Phe Lys Glu Asp Pro Glu
                325                 330                 335

Gly Tyr Arg Ala Pro Trp Ser His Pro Leu Ala Gln Arg Phe Arg Ile
            340                 345                 350

Leu Ser Glu Ala Arg Asn Leu Glu Ile Arg Asp Thr Gly Lys Gly Ser
        355                 360                 365

Arg Arg Leu Thr Lys Glu Gln Ser Asp Leu Val Val Ala Ala Leu Leu
    370                 375                 380

Ala Asn Arg Glu Val Lys Phe Asp Lys Leu Arg Thr Leu Leu Lys Leu
385                 390                 395                 400

Pro Ala Glu Ala Arg Phe Asn Leu Glu Ser Asp Arg Arg Ala Ala Leu
                405                 410                 415

Asp Gly Asp Gln Thr Ala Ala Arg Leu Ser Asp Lys Lys Gly Phe Asn
            420                 425                 430

Lys Ala Trp Arg Gly Phe Pro Pro Glu Arg Gln Ile Ala Ile Val Ala
        435                 440                 445

Arg Leu Glu Glu Thr Glu Asp Glu Asn Glu Leu Ile Ala Trp Leu Glu
    450                 455                 460

Lys Glu Cys Ala Leu Asp Gly Ala Ala Ala Ala Arg Val Ala Asn Thr
465                 470                 475                 480

Thr Leu Pro Asp Gly His Cys Arg Leu Gly Leu Arg Ala Ile Lys Lys
                485                 490                 495

Ile Val Pro Ile Met Gln Asp Gly Leu Asp Glu Asp Gly Val Ala Gly
            500                 505                 510
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```
Ala Gly Tyr His Ile Ala Ala Lys Arg Ala Gly Tyr Asp His Ala Lys
        515                 520                 525

Leu Pro Thr Gly Glu Gln Leu Gly Arg Leu Pro Tyr Tyr Gly Gln Trp
    530                 535                 540

Leu Gln Asp Ala Val Val Gly Ser Gly Asp Ala Arg Asp Gln Lys Glu
545                 550                 555                 560

Lys Gln Tyr Gly Gln Phe Pro Asn Pro Thr Val His Ile Gly Leu Gly
                565                 570                 575

Gln Leu Arg Arg Val Val Asn Asp Leu Ile Asp Lys Tyr Gly Pro Pro
            580                 585                 590

Thr Glu Ile Ser Ile Glu Phe Thr Arg Ala Leu Lys Leu Ser Glu Gln
        595                 600                 605

Gln Lys Ala Glu Arg Gln Arg Glu Gln Arg Arg Asn Gln Asp Lys Asn
    610                 615                 620

Lys Ala Arg Ala Glu Glu Leu Ala Lys Phe Gly Arg Pro Ala Asn Pro
625                 630                 635                 640

Arg Asn Leu Leu Lys Met Arg Leu Trp Glu Glu Leu Ala His Asp Pro
                645                 650                 655

Leu Asp Arg Lys Cys Val Tyr Thr Gly Glu Gln Ile Ser Ile Glu Arg
            660                 665                 670

Leu Leu Ser Asp Glu Val Asp Ile Asp His Ile Leu Pro Val Ala Met
        675                 680                 685

Thr Leu Asp Asp Ser Pro Ala Asn Lys Ile Ile Cys Met Arg Tyr Ala
    690                 695                 700

Asn Arg His Lys Arg Lys Gln Thr Pro Ser Glu Ala Phe Gly Ser Ser
705                 710                 715                 720

Pro Thr Leu Gln Gly His Arg Tyr Asn Trp Asp Asp Ile Ala Ala Arg
                725                 730                 735

Ala Thr Gly Leu Pro Arg Asn Lys Arg Trp Arg Phe Asp Ala Asn Ala
            740                 745                 750

Arg Glu Glu Phe Asp Lys Arg Gly Gly Phe Leu Ala Arg Gln Leu Asn
        755                 760                 765

Glu Thr Gly Trp Leu Ala Arg Leu Ala Lys Gln Tyr Leu Gly Ala Val
    770                 775                 780
```

```
Thr Asp Pro Asn Gln Ile Trp Val Val Pro Gly Arg Leu Thr Ser Met
785                 790                 795                 800

Leu Arg Gly Lys Trp Gly Leu Asn Gly Leu Leu Pro Ser Asp Asn Tyr
                805                 810                 815

Ala Gly Val Gln Asp Lys Ala Glu Glu Phe Leu Ala Ser Thr Asp Asp
            820                 825                 830

Met Glu Phe Ser Gly Val Lys Asn Arg Ala Asp His Arg His His Ala
        835                 840                 845

Ile Asp Gly Leu Val Thr Ala Leu Thr Asp Arg Ser Leu Leu Trp Lys
    850                 855                 860

Met Ala Asn Ala Tyr Asp Glu Glu His Glu Lys Phe Val Ile Glu Pro
865                 870                 875                 880

Pro Trp Pro Thr Met Arg Asp Asp Leu Lys Ala Ala Leu Glu Lys Met
                885                 890                 895

Val Val Ser His Lys Pro Asp His Gly Ile Glu Gly Lys Leu His Glu
            900                 905                 910

Asp Ser Ala Tyr Gly Phe Val Lys Pro Leu Asp Ala Thr Gly Leu Lys
        915                 920                 925

Glu Glu Glu Ala Gly Asn Leu Val Tyr Arg Lys Ala Ile Glu Ser Leu
    930                 935                 940

Asn Glu Asn Glu Val Asp Arg Ile Arg Asp Ile Gln Leu Arg Thr Ile
945                 950                 955                 960

Val Arg Asp His Val Asn Val Glu Lys Thr Lys Gly Val Ala Leu Ala
                965                 970                 975

Asp Ala Leu Arg Gln Leu Gln Ala Pro Ser Asp Asp Tyr Pro Gln Phe
            980                 985                 990

Lys His Gly Leu Arg His Val Arg  Ile Leu Lys Lys Glu  Lys Gly Asp
        995                 1000                1005

Tyr Leu  Val Pro Ile Ala Asn  Arg Ala Ser Gly Val  Ala Tyr Lys
    1010                1015                1020

Ala Tyr  Ser Ala Gly Glu Asn  Phe Cys Val Glu Val  Phe Glu Thr
    1025                1030                1035

Ala Gly  Gly Lys Trp Asp Gly  Glu Ala Val Arg Arg  Phe Asp Ala
    1040                1045                1050
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Asn Lys Lys Asn Ala Gly Pro Lys Ile Ala His Ala Pro Gln Trp
1055 1060 1065

Arg Asp Ala Asn Glu Gly Ala Lys Leu Val Met Arg Ile His Lys
1070 1075 1080

Gly Asp Leu Ile Arg Leu Asp His Glu Gly Arg Ala Arg Ile Met
1085 1090 1095

Val Val His Arg Leu Asp Ala Ala Ala Gly Arg Phe Lys Leu Ala
1100 1105 1110

Asp His Asn Glu Thr Gly Asn Leu Asp Lys Arg His Ala Thr Asn
1115 1120 1125

Asn Asp Ile Asp Pro Phe Arg Trp Leu Met Ala Ser Tyr Asn Thr
1130 1135 1140

Leu Lys Lys Leu Ala Ala Val Pro Val Arg Val Asp Glu Leu Gly
1145 1150 1155

Arg Val Trp Arg Val Met Pro Asn
1160 1165

<210> 335
<211> 1498
<212> PRT
<213> Odoribacter laneus

<400> 335

Met Glu Thr Thr Leu Gly Ile Asp Leu Gly Thr Asn Ser Ile Gly Leu
1 5 10 15

Ala Leu Val Asp Gln Glu Glu His Gln Ile Leu Tyr Ser Gly Val Arg
20 25 30

Ile Phe Pro Glu Gly Ile Asn Lys Asp Thr Ile Gly Leu Gly Glu Lys
35 40 45

Glu Glu Ser Arg Asn Ala Thr Arg Arg Ala Lys Arg Gln Met Arg Arg
50 55 60

Gln Tyr Phe Arg Lys Lys Leu Arg Lys Ala Lys Leu Leu Glu Leu Leu
65 70 75 80

Ile Ala Tyr Asp Met Cys Pro Leu Lys Pro Glu Asp Val Arg Arg Trp
85 90 95

Lys Asn Trp Asp Lys Gln Gln Lys Ser Thr Val Arg Gln Phe Pro Asp
100 105 110

Thr Pro Ala Phe Arg Glu Trp Leu Lys Gln Asn Pro Tyr Glu Leu Arg

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        115                 120                 125

Lys Gln Ala Val Thr Glu Asp Val Thr Arg Pro Glu Leu Gly Arg Ile
    130                 135                 140

Leu Tyr Gln Met Ile Gln Arg Arg Gly Phe Leu Ser Ser Arg Lys Gly
145                 150                 155                 160

Lys Glu Glu Gly Lys Ile Phe Thr Gly Lys Asp Arg Met Val Gly Ile
                165                 170                 175

Asp Glu Thr Arg Lys Asn Leu Gln Lys Gln Thr Leu Gly Ala Tyr Leu
            180                 185                 190

Tyr Asp Ile Ala Pro Lys Asn Gly Glu Lys Tyr Arg Phe Arg Thr Glu
        195                 200                 205

Arg Val Arg Ala Arg Tyr Thr Leu Arg Asp Met Tyr Ile Arg Glu Phe
    210                 215                 220

Glu Ile Ile Trp Gln Arg Gln Ala Gly His Leu Gly Leu Ala His Glu
225                 230                 235                 240

Gln Ala Thr Arg Lys Lys Asn Ile Phe Leu Glu Gly Ser Ala Thr Asn
                245                 250                 255

Val Arg Asn Ser Lys Leu Ile Thr His Leu Gln Ala Lys Tyr Gly Arg
            260                 265                 270

Gly His Val Leu Ile Glu Asp Thr Arg Ile Thr Val Thr Phe Gln Leu
        275                 280                 285

Pro Leu Lys Glu Val Leu Gly Gly Lys Ile Glu Ile Glu Glu Glu Gln
    290                 295                 300

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

Arg Ser Gln Lys Ser Leu Leu Ser Lys Cys Val Phe Glu Gly Arg Asn
                325                 330                 335

Phe Tyr Asp Pro Val His Gln Lys Trp Ile Ile Ala Gly Pro Thr Pro
            340                 345                 350

Ala Pro Leu Ser His Pro Glu Phe Glu Glu Phe Arg Ala Tyr Gln Phe
        355                 360                 365

Ile Asn Asn Ile Ile Tyr Gly Lys Asn Glu His Leu Thr Ala Ile Gln
    370                 375                 380

Arg Glu Ala Val Phe Glu Leu Met Cys Thr Glu Ser Lys Asp Phe Asn
```

385 390 395 400

Phe Glu Lys Ile Pro Lys His Leu Lys Leu Phe Glu Lys Phe Asn Phe
405 410 415

Asp Asp Thr Thr Lys Val Pro Ala Cys Thr Thr Ile Ser Gln Leu Arg
420 425 430

Lys Leu Phe Pro His Pro Val Trp Glu Glu Lys Arg Glu Glu Ile Trp
435 440 445

His Cys Phe Tyr Phe Tyr Asp Asp Asn Thr Leu Leu Phe Glu Lys Leu
450 455 460

Gln Lys Asp Tyr Ala Leu Gln Thr Asn Asp Leu Glu Lys Ile Lys Lys
465 470 475 480

Ile Arg Leu Ser Glu Ser Tyr Gly Asn Val Ser Leu Lys Ala Ile Arg
485 490 495

Arg Ile Asn Pro Tyr Leu Lys Lys Gly Tyr Ala Tyr Ser Thr Ala Val
500 505 510

Leu Leu Gly Gly Ile Arg Asn Ser Phe Gly Lys Arg Phe Glu Tyr Phe
515 520 525

Lys Glu Tyr Glu Pro Glu Ile Glu Lys Ala Val Cys Arg Ile Leu Lys
530 535 540

Glu Lys Asn Ala Glu Gly Glu Val Ile Arg Lys Ile Lys Asp Tyr Leu
545 550 555 560

Val His Asn Arg Phe Gly Phe Ala Lys Asn Asp Arg Ala Phe Gln Lys
565 570 575

Leu Tyr His His Ser Gln Ala Ile Thr Thr Gln Ala Gln Lys Glu Arg
580 585 590

Leu Pro Glu Thr Gly Asn Leu Arg Asn Pro Ile Val Gln Gln Gly Leu
595 600 605

Asn Glu Leu Arg Arg Thr Val Asn Lys Leu Leu Ala Thr Cys Arg Glu
610 615 620

Lys Tyr Gly Pro Ser Phe Lys Phe Asp His Ile His Val Glu Met Gly
625 630 635 640

Arg Glu Leu Arg Ser Ser Lys Thr Glu Arg Glu Lys Gln Ser Arg Gln
645 650 655

Ile Arg Glu Asn Glu Lys Lys Asn Glu Ala Ala Lys Val Lys Leu Ala

660 665 670

Glu Tyr Gly Leu Lys Ala Tyr Arg Asp Asn Ile Gln Lys Tyr Leu Leu
675 680 685

Tyr Lys Glu Ile Glu Glu Lys Gly Gly Thr Val Cys Cys Pro Tyr Thr
690 695 700

Gly Lys Thr Leu Asn Ile Ser His Thr Leu Gly Ser Asp Asn Ser Val
705 710 715 720

Gln Ile Glu His Ile Ile Pro Tyr Ser Ile Ser Leu Asp Asp Ser Leu
725 730 735

Ala Asn Lys Thr Leu Cys Asp Ala Thr Phe Asn Arg Glu Lys Gly Glu
740 745 750

Leu Thr Pro Tyr Asp Phe Tyr Gln Lys Asp Pro Ser Pro Glu Lys Trp
755 760 765

Gly Ala Ser Ser Trp Glu Glu Ile Glu Asp Arg Ala Phe Arg Leu Leu
770 775 780

Pro Tyr Ala Lys Ala Gln Arg Phe Ile Arg Arg Lys Pro Gln Glu Ser
785 790 795 800

Asn Glu Phe Ile Ser Arg Gln Leu Asn Asp Thr Arg Tyr Ile Ser Lys
805 810 815

Lys Ala Val Glu Tyr Leu Ser Ala Ile Cys Ser Asp Val Lys Ala Phe
820 825 830

Pro Gly Gln Leu Thr Ala Glu Leu Arg His Leu Trp Gly Leu Asn Asn
835 840 845

Ile Leu Gln Ser Ala Pro Asp Ile Thr Phe Pro Leu Pro Val Ser Ala
850 855 860

Thr Glu Asn His Arg Glu Tyr Tyr Val Ile Thr Asn Glu Gln Asn Glu
865 870 875 880

Val Ile Arg Leu Phe Pro Lys Gln Gly Glu Thr Pro Arg Thr Glu Lys
885 890 895

Gly Glu Leu Leu Leu Thr Gly Glu Val Glu Arg Lys Val Phe Arg Cys
900 905 910

Lys Gly Met Gln Glu Phe Gln Thr Asp Val Ser Asp Gly Lys Tyr Trp
915 920 925

Arg Arg Ile Lys Leu Ser Ser Ser Val Thr Trp Ser Pro Leu Phe Ala

930 935 940

Pro Lys Pro Ile Ser Ala Asp Gly Gln Ile Val Leu Lys Gly Arg Ile
945 950 955 960

Glu Lys Gly Val Phe Val Cys Asn Gln Leu Lys Gln Lys Leu Lys Thr
965 970 975

Gly Leu Pro Asp Gly Ser Tyr Trp Ile Ser Leu Pro Val Ile Ser Gln
980 985 990

Thr Phe Lys Glu Gly Glu Ser Val Asn Asn Ser Lys Leu Thr Ser Gln
995 1000 1005

Gln Val Gln Leu Phe Gly Arg Val Arg Glu Gly Ile Phe Arg Cys
1010 1015 1020

His Asn Tyr Gln Cys Pro Ala Ser Gly Ala Asp Gly Asn Phe Trp
1025 1030 1035

Cys Thr Leu Asp Thr Asp Thr Ala Gln Pro Ala Phe Thr Pro Ile
1040 1045 1050

Lys Asn Ala Pro Pro Gly Val Gly Gly Gly Gln Ile Ile Leu Thr
1055 1060 1065

Gly Asp Val Asp Asp Lys Gly Ile Phe His Ala Asp Asp Asp Leu
1070 1075 1080

His Tyr Glu Leu Pro Ala Ser Leu Pro Lys Gly Lys Tyr Tyr Gly
1085 1090 1095

Ile Phe Thr Val Glu Ser Cys Asp Pro Thr Leu Ile Pro Ile Glu
1100 1105 1110

Leu Ser Ala Pro Lys Thr Ser Lys Gly Glu Asn Leu Ile Glu Gly
1115 1120 1125

Asn Ile Trp Val Asp Glu His Thr Gly Glu Val Arg Phe Asp Pro
1130 1135 1140

Lys Lys Asn Arg Glu Asp Gln Arg His His Ala Ile Asp Ala Ile
1145 1150 1155

Val Ile Ala Leu Ser Ser Gln Ser Leu Phe Gln Arg Leu Ser Thr
1160 1165 1170

Tyr Asn Ala Arg Arg Glu Asn Lys Lys Arg Gly Leu Asp Ser Thr
1175 1180 1185

Glu His Phe Pro Ser Pro Trp Pro Gly Phe Ala Gln Asp Val Arg

1190 1195 1200

Gln Ser Val Val Pro Leu Leu Val Ser Tyr Lys Gln Asn Pro Lys
1205 1210 1215

Thr Leu Cys Lys Ile Ser Lys Thr Leu Tyr Lys Asp Gly Lys Lys
1220 1225 1230

Ile His Ser Cys Gly Asn Ala Val Arg Gly Gln Leu His Lys Glu
1235 1240 1245

Thr Val Tyr Gly Gln Arg Thr Ala Pro Gly Ala Thr Glu Lys Ser
1250 1255 1260

Tyr His Ile Arg Lys Asp Ile Arg Glu Leu Lys Thr Ser Lys His
1265 1270 1275

Ile Gly Lys Val Val Asp Ile Thr Ile Arg Gln Met Leu Leu Lys
1280 1285 1290

His Leu Gln Glu Asn Tyr His Ile Asp Ile Thr Gln Glu Phe Asn
1295 1300 1305

Ile Pro Ser Asn Ala Phe Phe Lys Glu Gly Val Tyr Arg Ile Phe
1310 1315 1320

Leu Pro Asn Lys His Gly Glu Pro Val Pro Ile Lys Lys Ile Arg
1325 1330 1335

Met Lys Glu Glu Leu Gly Asn Ala Glu Arg Leu Lys Asp Asn Ile
1340 1345 1350

Asn Gln Tyr Val Asn Pro Arg Asn Asn His His Val Met Ile Tyr
1355 1360 1365

Gln Asp Ala Asp Gly Asn Leu Lys Glu Glu Ile Val Ser Phe Trp
1370 1375 1380

Ser Val Ile Glu Arg Gln Asn Gln Gly Gln Pro Ile Tyr Gln Leu
1385 1390 1395

Pro Arg Glu Gly Arg Asn Ile Val Ser Ile Leu Gln Ile Asn Asp
1400 1405 1410

Thr Phe Leu Ile Gly Leu Lys Glu Glu Glu Pro Glu Val Tyr Arg
1415 1420 1425

Asn Asp Leu Ser Thr Leu Ser Lys His Leu Tyr Arg Val Gln Lys
1430 1435 1440

Leu Ser Gly Met Tyr Tyr Thr Phe Arg His His Leu Ala Ser Thr

1445 1450 1455

Leu Asn Asn Glu Arg Glu Glu Phe Arg Ile Gln Ser Leu Glu Ala
1460 1465 1470

Trp Lys Arg Ala Asn Pro Val Lys Val Gln Ile Asp Glu Ile Gly
1475 1480 1485

Arg Ile Thr Phe Leu Asn Gly Pro Leu Cys
1490 1495

<210> 336
<211> 1372
<212> PRT
<213> Legionella pneumophila

<400> 336

Met Glu Ser Ser Gln Ile Leu Ser Pro Ile Gly Ile Asp Leu Gly Gly
1 5 10 15

Lys Phe Thr Gly Val Cys Leu Ser His Leu Glu Ala Phe Ala Glu Leu
20 25 30

Pro Asn His Ala Asn Thr Lys Tyr Ser Val Ile Leu Ile Asp His Asn
35 40 45

Asn Phe Gln Leu Ser Gln Ala Gln Arg Arg Ala Thr Arg His Arg Val
50 55 60

Arg Asn Lys Lys Arg Asn Gln Phe Val Lys Arg Val Ala Leu Gln Leu
65 70 75 80

Phe Gln His Ile Leu Ser Arg Asp Leu Asn Ala Lys Glu Glu Thr Ala
85 90 95

Leu Cys His Tyr Leu Asn Asn Arg Gly Tyr Thr Tyr Val Asp Thr Asp
100 105 110

Leu Asp Glu Tyr Ile Lys Asp Glu Thr Thr Ile Asn Leu Leu Lys Glu
115 120 125

Leu Leu Pro Ser Glu Ser Glu His Asn Phe Ile Asp Trp Phe Leu Gln
130 135 140

Lys Met Gln Ser Ser Glu Phe Arg Lys Ile Leu Val Ser Lys Val Glu
145 150 155 160

Glu Lys Lys Asp Asp Lys Glu Leu Lys Asn Ala Val Lys Asn Ile Lys
165 170 175

Asn Phe Ile Thr Gly Phe Glu Lys Asn Ser Val Glu Gly His Arg His
180 185 190

```
Arg Lys Val Tyr Phe Glu Asn Ile Lys Ser Asp Ile Thr Lys Asp Asn
        195                 200                 205

Gln Leu Asp Ser Ile Lys Lys Lys Ile Pro Ser Val Cys Leu Ser Asn
    210                 215                 220

Leu Leu Gly His Leu Ser Asn Leu Gln Trp Lys Asn Leu His Arg Tyr
225                 230                 235                 240

Leu Ala Lys Asn Pro Lys Gln Phe Asp Glu Gln Thr Phe Gly Asn Glu
                245                 250                 255

Phe Leu Arg Met Leu Lys Asn Phe Arg His Leu Lys Gly Ser Gln Glu
            260                 265                 270

Ser Leu Ala Val Arg Asn Leu Ile Gln Gln Leu Glu Gln Ser Gln Asp
        275                 280                 285

Tyr Ile Ser Ile Leu Glu Lys Thr Pro Pro Glu Ile Thr Ile Pro Pro
    290                 295                 300

Tyr Glu Ala Arg Thr Asn Thr Gly Met Glu Lys Asp Gln Ser Leu Leu
305                 310                 315                 320

Leu Asn Pro Glu Lys Leu Asn Asn Leu Tyr Pro Asn Trp Arg Asn Leu
                325                 330                 335

Ile Pro Gly Ile Ile Asp Ala His Pro Phe Leu Glu Lys Asp Leu Glu
            340                 345                 350

His Thr Lys Leu Arg Asp Arg Lys Arg Ile Ile Ser Pro Ser Lys Gln
        355                 360                 365

Asp Glu Lys Arg Asp Ser Tyr Ile Leu Gln Arg Tyr Leu Asp Leu Asn
    370                 375                 380

Lys Lys Ile Asp Lys Phe Lys Ile Lys Lys Gln Leu Ser Phe Leu Gly
385                 390                 395                 400

Gln Gly Lys Gln Leu Pro Ala Asn Leu Ile Glu Thr Gln Lys Glu Met
                405                 410                 415

Glu Thr His Phe Asn Ser Ser Leu Val Ser Val Leu Ile Gln Ile Ala
            420                 425                 430

Ser Ala Tyr Asn Lys Glu Arg Glu Asp Ala Ala Gln Gly Ile Trp Phe
        435                 440                 445

Asp Asn Ala Phe Ser Leu Cys Glu Leu Ser Asn Ile Asn Pro Pro Arg
    450                 455                 460
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Lys Gln Lys Ile Leu Pro Leu Leu Val Gly Ala Ile Leu Ser Glu Asp
465                 470                 475                 480

Phe Ile Asn Asn Lys Asp Lys Trp Ala Lys Phe Lys Ile Phe Trp Asn
                485                 490                 495

Thr His Lys Ile Gly Arg Thr Ser Leu Lys Ser Lys Cys Lys Glu Ile
            500                 505                 510

Glu Glu Ala Arg Lys Asn Ser Gly Asn Ala Phe Lys Ile Asp Tyr Glu
        515                 520                 525

Glu Ala Leu Asn His Pro Glu His Ser Asn Asn Lys Ala Leu Ile Lys
    530                 535                 540

Ile Ile Gln Thr Ile Pro Asp Ile Ile Gln Ala Ile Gln Ser His Leu
545                 550                 555                 560

Gly His Asn Asp Ser Gln Ala Leu Ile Tyr His Asn Pro Phe Ser Leu
                565                 570                 575

Ser Gln Leu Tyr Thr Ile Leu Glu Thr Lys Arg Asp Gly Phe His Lys
            580                 585                 590

Asn Cys Val Ala Val Thr Cys Glu Asn Tyr Trp Arg Ser Gln Lys Thr
        595                 600                 605

Glu Ile Asp Pro Glu Ile Ser Tyr Ala Ser Arg Leu Pro Ala Asp Ser
    610                 615                 620

Val Arg Pro Phe Asp Gly Val Leu Ala Arg Met Met Gln Arg Leu Ala
625                 630                 635                 640

Tyr Glu Ile Ala Met Ala Lys Trp Glu Gln Ile Lys His Ile Pro Asp
                645                 650                 655

Asn Ser Ser Leu Leu Ile Pro Ile Tyr Leu Glu Gln Asn Arg Phe Glu
            660                 665                 670

Phe Glu Glu Ser Phe Lys Lys Ile Lys Gly Ser Ser Ser Asp Lys Thr
        675                 680                 685

Leu Glu Gln Ala Ile Glu Lys Gln Asn Ile Gln Trp Glu Glu Lys Phe
    690                 695                 700

Gln Arg Ile Ile Asn Ala Ser Met Asn Ile Cys Pro Tyr Lys Gly Ala
705                 710                 715                 720

Ser Ile Gly Gly Gln Gly Glu Ile Asp His Ile Tyr Pro Arg Ser Leu
                725                 730                 735
```

```
Ser Lys Lys His Phe Gly Val Ile Phe Asn Ser Glu Val Asn Leu Ile
            740                 745                 750

Tyr Cys Ser Ser Gln Gly Asn Arg Glu Lys Lys Glu Glu His Tyr Leu
        755                 760                 765

Leu Glu His Leu Ser Pro Leu Tyr Leu Lys His Gln Phe Gly Thr Asp
    770                 775                 780

Asn Val Ser Asp Ile Lys Asn Phe Ile Ser Gln Asn Val Ala Asn Ile
785                 790                 795                 800

Lys Lys Tyr Ile Ser Phe His Leu Leu Thr Pro Glu Gln Gln Lys Ala
                805                 810                 815

Ala Arg His Ala Leu Phe Leu Asp Tyr Asp Asp Glu Ala Phe Lys Thr
            820                 825                 830

Ile Thr Lys Phe Leu Met Ser Gln Gln Lys Ala Arg Val Asn Gly Thr
        835                 840                 845

Gln Lys Phe Leu Gly Lys Gln Ile Met Glu Phe Leu Ser Thr Leu Ala
    850                 855                 860

Asp Ser Lys Gln Leu Gln Leu Glu Phe Ser Ile Lys Gln Ile Thr Ala
865                 870                 875                 880

Glu Glu Val His Asp His Arg Glu Leu Leu Ser Lys Gln Glu Pro Lys
                885                 890                 895

Leu Val Lys Ser Arg Gln Gln Ser Phe Pro Ser His Ala Ile Asp Ala
            900                 905                 910

Thr Leu Thr Met Ser Ile Gly Leu Lys Glu Phe Pro Gln Phe Ser Gln
        915                 920                 925

Glu Leu Asp Asn Ser Trp Phe Ile Asn His Leu Met Pro Asp Glu Val
    930                 935                 940

His Leu Asn Pro Val Arg Ser Lys Glu Lys Tyr Asn Lys Pro Asn Ile
945                 950                 955                 960

Ser Ser Thr Pro Leu Phe Lys Asp Ser Leu Tyr Ala Glu Arg Phe Ile
                965                 970                 975

Pro Val Trp Val Lys Gly Glu Thr Phe Ala Ile Gly Phe Ser Glu Lys
            980                 985                 990

Asp Leu Phe Glu Ile Lys Pro Ser  Asn Lys Glu Lys Leu  Phe Thr Leu
        995                 1000                1005
```

```
Leu Lys  Thr Tyr Ser Thr Lys  Asn Pro Gly Glu Ser  Leu Gln Glu
    1010                1015                1020

Leu Gln  Ala Lys Ser Lys Ala  Lys Trp Leu Tyr Phe  Pro Ile Asn
    1025                1030                1035

Lys Thr  Leu Ala Leu Glu Phe  Leu His His Tyr Phe  His Lys Glu
    1040                1045                1050

Ile Val  Thr Pro Asp Asp Thr  Thr Val Cys His Phe  Ile Asn Ser
    1055                1060                1065

Leu Arg  Tyr Tyr Thr Lys Lys  Glu Ser Ile Thr Val  Lys Ile Leu
    1070                1075                1080

Lys Glu  Pro Met Pro Val Leu  Ser Val Lys Phe Glu  Ser Ser Lys
    1085                1090                1095

Lys Asn  Val Leu Gly Ser Phe  Lys His Thr Ile Ala  Leu Pro Ala
    1100                1105                1110

Thr Lys  Asp Trp Glu Arg Leu  Phe Asn His Pro Asn  Phe Leu Ala
    1115                1120                1125

Leu Lys  Ala Asn Pro Ala Pro  Asn Pro Lys Glu Phe  Asn Glu Phe
    1130                1135                1140

Ile Arg  Lys Tyr Phe Leu Ser  Asp Asn Asn Pro Asn  Ser Asp Ile
    1145                1150                1155

Pro Asn  Asn Gly His Asn Ile  Lys Pro Gln Lys His  Lys Ala Val
    1160                1165                1170

Arg Lys  Val Phe Ser Leu Pro  Val Ile Pro Gly Asn  Ala Gly Thr
    1175                1180                1185

Met Met  Arg Ile Arg Arg Lys  Asp Asn Lys Gly Gln  Pro Leu Tyr
    1190                1195                1200

Gln Leu  Gln Thr Ile Asp Asp  Thr Pro Ser Met Gly  Ile Gln Ile
    1205                1210                1215

Asn Glu  Asp Arg Leu Val Lys  Gln Glu Val Leu Met  Asp Ala Tyr
    1220                1225                1230

Lys Thr  Arg Asn Leu Ser Thr  Ile Asp Gly Ile Asn  Asn Ser Glu
    1235                1240                1245

Gly Gln  Ala Tyr Ala Thr Phe  Asp Asn Trp Leu Thr  Leu Pro Val
    1250                1255                1260
```

Ser Thr Phe Lys Pro Glu Ile Ile Lys Leu Glu Met Lys Pro His
1265 1270 1275

Ser Lys Thr Arg Arg Tyr Ile Arg Ile Thr Gln Ser Leu Ala Asp
1280 1285 1290

Phe Ile Lys Thr Ile Asp Glu Ala Leu Met Ile Lys Pro Ser Asp
1295 1300 1305

Ser Ile Asp Asp Pro Leu Asn Met Pro Asn Glu Ile Val Cys Lys
1310 1315 1320

Asn Lys Leu Phe Gly Asn Glu Leu Lys Pro Arg Asp Gly Lys Met
1325 1330 1335

Lys Ile Val Ser Thr Gly Lys Ile Val Thr Tyr Glu Phe Glu Ser
1340 1345 1350

Asp Ser Thr Pro Gln Trp Ile Gln Thr Leu Tyr Val Thr Gln Leu
1355 1360 1365

Lys Lys Gln Pro
1370

<210> 337
<211> 1517
<212> PRT
<213> Bacteroides sp.

<400> 337

Met Lys Lys Ile Val Gly Leu Asp Leu Gly Thr Asn Ser Ile Gly Trp
1 5 10 15

Ala Leu Ile Asn Ala Tyr Ile Asn Lys Glu His Leu Tyr Gly Ile Glu
20 25 30

Ala Cys Gly Ser Arg Ile Ile Pro Met Asp Ala Ala Ile Leu Gly Asn
35 40 45

Phe Asp Lys Gly Asn Ser Ile Ser Gln Thr Ala Asp Arg Thr Ser Tyr
50 55 60

Arg Gly Ile Arg Arg Leu Arg Glu Arg His Leu Leu Arg Arg Glu Arg
65 70 75 80

Leu His Arg Ile Leu Asp Leu Leu Gly Phe Leu Pro Lys His Tyr Ser
85 90 95

Asp Ser Leu Asn Arg Tyr Gly Lys Phe Leu Asn Asp Ile Glu Cys Lys
100 105 110

```
Leu Pro Trp Val Lys Asp Glu Thr Gly Ser Tyr Lys Phe Ile Phe Gln
        115                 120                 125

Glu Ser Phe Lys Glu Met Leu Ala Asn Phe Thr Glu His His Pro Ile
    130                 135                 140

Leu Ile Ala Asn Asn Lys Lys Val Pro Tyr Asp Trp Thr Ile Tyr Tyr
145                 150                 155                 160

Leu Arg Lys Lys Ala Leu Thr Gln Lys Ile Ser Lys Glu Glu Leu Ala
                165                 170                 175

Trp Ile Leu Leu Asn Phe Asn Gln Lys Arg Gly Tyr Tyr Gln Leu Arg
            180                 185                 190

Gly Glu Glu Glu Glu Thr Pro Asn Lys Leu Val Glu Tyr Tyr Ser Leu
        195                 200                 205

Lys Val Glu Lys Val Glu Asp Ser Gly Glu Arg Lys Gly Lys Asp Thr
    210                 215                 220

Trp Tyr Asn Val His Leu Glu Asn Gly Met Ile Tyr Arg Arg Thr Ser
225                 230                 235                 240

Asn Ile Pro Leu Asp Trp Glu Gly Lys Thr Lys Glu Phe Ile Val Thr
                245                 250                 255

Thr Asp Leu Glu Ala Asp Gly Ser Pro Lys Lys Asp Lys Glu Gly Asn
            260                 265                 270

Ile Lys Arg Ser Phe Arg Ala Pro Lys Asp Asp Asp Trp Thr Leu Ile
        275                 280                 285

Lys Lys Lys Thr Glu Ala Asp Ile Asp Lys Ile Lys Met Thr Val Gly
    290                 295                 300

Ala Tyr Ile Tyr Asp Thr Leu Leu Gln Lys Pro Asp Gln Lys Ile Arg
305                 310                 315                 320

Gly Lys Leu Val Arg Thr Ile Glu Arg Lys Tyr Tyr Lys Asn Glu Leu
                325                 330                 335

Tyr Gln Ile Leu Lys Thr Gln Ser Glu Phe His Glu Glu Leu Arg Asp
            340                 345                 350

Lys Gln Leu Tyr Ile Ala Cys Leu Asn Glu Leu Tyr Pro Asn Asn Glu
        355                 360                 365

Pro Arg Arg Asn Ser Ile Ser Thr Arg Asp Phe Cys His Leu Phe Ile
    370                 375                 380
```

```
Glu Asp Ile Ile Phe Tyr Gln Arg Pro Leu Lys Ser Lys Lys Ser Leu
385                 390                 395                 400

Ile Asp Asn Cys Pro Tyr Glu Glu Asn Arg Tyr Ile Asp Lys Glu Ser
                405                 410                 415

Gly Glu Ile Lys His Ala Ser Ile Lys Cys Ile Ala Lys Ser His Pro
            420                 425                 430

Leu Tyr Gln Glu Phe Arg Leu Trp Gln Phe Ile Val Asn Leu Arg Ile
        435                 440                 445

Tyr Arg Lys Glu Thr Asp Val Asp Val Thr Gln Glu Leu Leu Pro Thr
    450                 455                 460

Glu Ala Asp Tyr Val Thr Leu Phe Glu Trp Leu Asn Glu Lys Lys Glu
465                 470                 475                 480

Ile Asp Gln Lys Ala Phe Phe Lys Tyr Pro Pro Phe Gly Phe Lys Lys
                485                 490                 495

Thr Thr Ser Asn Tyr Arg Trp Asn Tyr Val Glu Asp Lys Pro Tyr Pro
            500                 505                 510

Cys Asn Glu Thr His Ala Gln Ile Ile Ala Arg Leu Gly Lys Ala His
        515                 520                 525

Ile Pro Lys Ala Phe Leu Ser Lys Glu Lys Glu Glu Thr Leu Trp His
    530                 535                 540

Ile Leu Tyr Ser Ile Glu Asp Lys Gln Glu Ile Glu Lys Ala Leu His
545                 550                 555                 560

Ser Phe Ala Asn Lys Asn Asn Leu Ser Glu Glu Phe Ile Glu Gln Phe
                565                 570                 575

Lys Asn Phe Pro Pro Phe Lys Lys Glu Tyr Gly Ser Tyr Ser Ala Lys
            580                 585                 590

Ala Ile Lys Lys Leu Leu Pro Leu Met Arg Met Gly Lys Tyr Trp Ser
        595                 600                 605

Ile Glu Asn Ile Asp Asn Gly Thr Arg Ile Arg Ile Asn Lys Ile Ile
    610                 615                 620

Asp Gly Glu Tyr Asp Glu Asn Ile Arg Glu Arg Val Arg Gln Lys Ala
625                 630                 635                 640

Ile Asn Leu Thr Asp Ile Thr His Phe Arg Ala Leu Pro Leu Trp Leu
                645                 650                 655
```

```
Ala Cys Tyr Leu Val Tyr Asp Arg His Ser Glu Val Lys Asp Ile Val
            660                 665                 670

Lys Trp Lys Thr Pro Lys Asp Ile Asp Leu Tyr Leu Lys Ser Phe Lys
        675                 680                 685

Gln His Ser Leu Arg Asn Pro Ile Val Glu Gln Val Ile Thr Glu Thr
    690                 695                 700

Leu Arg Thr Val Arg Asp Ile Trp Gln Gln Val Gly His Ile Asp Glu
705                 710                 715                 720

Ile His Ile Glu Leu Gly Arg Glu Met Lys Asn Pro Ala Asp Lys Arg
                725                 730                 735

Ala Arg Met Ser Gln Gln Met Ile Lys Asn Glu Asn Thr Asn Leu Arg
            740                 745                 750

Ile Lys Ala Leu Leu Thr Glu Phe Leu Asn Pro Glu Phe Gly Ile Glu
        755                 760                 765

Asn Val Arg Pro Tyr Ser Pro Ser Gln Gln Asp Leu Leu Arg Ile Tyr
    770                 775                 780

Glu Glu Gly Val Leu Asn Ser Ile Leu Glu Leu Pro Glu Asp Ile Gly
785                 790                 795                 800

Ile Ile Leu Gly Lys Phe Asn Gln Thr Asp Thr Leu Lys Arg Pro Thr
                805                 810                 815

Arg Ser Glu Ile Leu Arg Tyr Lys Leu Trp Leu Glu Gln Lys Tyr Arg
            820                 825                 830

Ser Pro Tyr Thr Gly Glu Met Ile Pro Leu Ser Lys Leu Phe Thr Pro
        835                 840                 845

Ala Tyr Glu Ile Glu His Ile Ile Pro Gln Ser Arg Tyr Phe Asp Asp
    850                 855                 860

Ser Leu Ser Asn Lys Val Ile Cys Glu Ser Glu Ile Asn Lys Leu Lys
865                 870                 875                 880

Asp Arg Ser Leu Gly Tyr Glu Phe Ile Lys Asn His His Gly Glu Lys
                885                 890                 895

Val Glu Leu Ala Phe Asp Lys Pro Val Glu Val Leu Ser Val Glu Ala
            900                 905                 910

Tyr Glu Lys Leu Val His Glu Ser Tyr Ser His Asn Arg Ser Lys Met
        915                 920                 925
```

```
Lys Lys Leu Leu Met Glu Asp Ile Pro Asp Gln Phe Ile Glu Arg Gln
    930                 935                 940

Leu Asn Asp Ser Arg Tyr Ile Ser Lys Val Val Lys Ser Leu Leu Ser
945                 950                 955                 960

Asn Ile Val Arg Glu Glu Asn Glu Gln Glu Ala Ile Ser Lys Asn Val
                965                 970                 975

Ile Pro Cys Thr Gly Gly Ile Thr Asp Arg Leu Lys Lys Asp Trp Gly
            980                 985                 990

Ile Asn Asp Val Trp Asn Lys Ile  Val Leu Pro Arg Phe  Ile Arg Leu
        995                 1000                1005

Asn Glu  Leu Thr Glu Ser Thr  Arg Phe Thr Ser Ile  Asn Thr Asn
    1010                1015                1020

Asn Thr  Met Ile Pro Ser Met  Pro Leu Glu Leu Gln  Lys Gly Phe
    1025                1030                1035

Asn Lys  Lys Arg Ile Asp His  Arg His His Ala Met  Asp Ala Ile
    1040                1045                1050

Ile Ile  Ala Cys Ala Asn Arg  Asn Ile Val Asn Tyr  Leu Asn Asn
    1055                1060                1065

Val Ser  Ala Ser Lys Asn Thr  Lys Ile Thr Arg Arg  Asp Leu Gln
    1070                1075                1080

Thr Leu  Leu Cys His Lys Asp  Lys Thr Asp Asn Asn  Gly Asn Tyr
    1085                1090                1095

Lys Trp  Val Ile Asp Lys Pro  Trp Glu Thr Phe Thr  Gln Asp Thr
    1100                1105                1110

Leu Thr  Ala Leu Gln Lys Ile  Thr Val Ser Phe Lys  Gln Asn Leu
    1115                1120                1125

Arg Val  Ile Asn Lys Thr Thr  Asn His Tyr Gln His  Tyr Glu Asn
    1130                1135                1140

Gly Lys  Lys Ile Val Ser Asn  Gln Ser Lys Gly Asp  Ser Trp Ala
    1145                1150                1155

Ile Arg  Lys Ser Met His Lys  Glu Thr Val His Gly  Glu Val Asn
    1160                1165                1170

Leu Arg  Met Ile Lys Thr Val  Ser Phe Asn Glu Ala  Leu Lys Lys
    1175                1180                1185
```

```
Pro Gln  Ala Ile Val Glu Met  Asp Leu Lys Lys Lys  Ile Leu Ala
    1190                1195                1200

Met Leu  Glu Leu Gly Tyr Asp  Thr Lys Arg Ile Lys  Asn Tyr Phe
    1205                1210                1215

Glu Glu  Asn Lys Asp Thr Trp  Gln Asp Ile Asn Pro  Ser Lys Ile
    1220                1225                1230

Lys Val  Tyr Tyr Phe Thr Lys  Glu Thr Lys Asp Arg  Tyr Phe Ala
    1235                1240                1245

Val Arg  Lys Pro Ile Asp Thr  Ser Phe Asp Lys Lys  Lys Ile Lys
    1250                1255                1260

Glu Ser  Ile Thr Asp Thr Gly  Ile Gln Gln Ile Met  Leu Arg His
    1265                1270                1275

Leu Glu  Thr Lys Asp Asn Asp  Pro Thr Leu Ala Phe  Ser Pro Asp
    1280                1285                1290

Gly Ile  Asp Glu Met Asn Arg  Asn Ile Leu Ile Leu  Asn Lys Gly
    1295                1300                1305

Lys Lys  His Gln Pro Ile Tyr  Lys Val Arg Val Tyr  Glu Lys Ala
    1310                1315                1320

Glu Lys  Phe Thr Val Gly Gln  Lys Gly Asn Lys Arg  Thr Lys Phe
    1325                1330                1335

Val Glu  Ala Ala Lys Gly Thr  Asn Leu Phe Phe Ala  Ile Tyr Glu
    1340                1345                1350

Thr Glu  Glu Ile Asp Lys Asp  Thr Lys Lys Val Ile  Arg Lys Arg
    1355                1360                1365

Ser Tyr  Ser Thr Ile Pro Leu  Asn Val Val Ile Glu  Arg Gln Lys
    1370                1375                1380

Gln Gly  Leu Ser Ser Ala Pro  Glu Asp Glu Asn Gly  Asn Leu Pro
    1385                1390                1395

Lys Tyr  Ile Leu Ser Pro Asn  Asp Leu Val Tyr Val  Pro Thr Gln
    1400                1405                1410

Glu Glu  Ile Asn Lys Gly Glu  Val Val Met Pro Ile  Asp Arg Asp
    1415                1420                1425

Arg Ile  Tyr Lys Met Val Asp  Ser Ser Gly Ile Thr  Ala Asn Phe
    1430                1435                1440
```

Ile Pro Ala Ser Thr Ala Asn Leu Ile Phe Ala Leu Pro Lys Ala
1445 1450 1455

Thr Ala Glu Ile Tyr Cys Asn Gly Glu Asn Cys Ile Gln Asn Glu
1460 1465 1470

Tyr Gly Ile Gly Ser Pro Gln Ser Lys Asn Gln Lys Ala Ile Thr
1475 1480 1485

Gly Glu Met Val Lys Glu Ile Cys Phe Pro Ile Lys Val Asp Arg
1490 1495 1500

Leu Gly Asn Ile Ile Gln Val Gly Ser Cys Ile Leu Thr Asn
1505 1510 1515

<210> 338
<211> 1101
<212> PRT
<213> Akkermansia muciniphila

<400> 338

Met Ser Arg Ser Leu Thr Phe Ser Phe Asp Ile Gly Tyr Ala Ser Ile
1 5 10 15

Gly Trp Ala Val Ile Ala Ser Ala Ser His Asp Asp Ala Asp Pro Ser
20 25 30

Val Cys Gly Cys Gly Thr Val Leu Phe Pro Lys Asp Asp Cys Gln Ala
35 40 45

Phe Lys Arg Arg Glu Tyr Arg Arg Leu Arg Arg Asn Ile Arg Ser Arg
50 55 60

Arg Val Arg Ile Glu Arg Ile Gly Arg Leu Leu Val Gln Ala Gln Ile
65 70 75 80

Ile Thr Pro Glu Met Lys Glu Thr Ser Gly His Pro Ala Pro Phe Tyr
85 90 95

Leu Ala Ser Glu Ala Leu Lys Gly His Arg Thr Leu Ala Pro Ile Glu
100 105 110

Leu Trp His Val Leu Arg Trp Tyr Ala His Asn Arg Gly Tyr Asp Asn
115 120 125

Asn Ala Ser Trp Ser Asn Ser Leu Ser Glu Asp Gly Gly Asn Gly Glu
130 135 140

Asp Thr Glu Arg Val Lys His Ala Gln Asp Leu Met Asp Lys His Gly
145 150 155 160

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Thr Ala Thr Met Ala Glu Thr Ile Cys Arg Glu Leu Lys Leu Glu Glu
                165                 170                 175

Gly Lys Ala Asp Ala Pro Met Glu Val Ser Thr Pro Ala Tyr Lys Asn
            180                 185                 190

Leu Asn Thr Ala Phe Pro Arg Leu Ile Val Glu Lys Glu Val Arg Arg
        195                 200                 205

Ile Leu Glu Leu Ser Ala Pro Leu Ile Pro Gly Leu Thr Ala Glu Ile
    210                 215                 220

Ile Glu Leu Ile Ala Gln His His Pro Leu Thr Thr Glu Gln Arg Gly
225                 230                 235                 240

Val Leu Leu Gln His Gly Ile Lys Leu Ala Arg Arg Tyr Arg Gly Ser
                245                 250                 255

Leu Leu Phe Gly Gln Leu Ile Pro Arg Phe Asp Asn Arg Ile Ile Ser
            260                 265                 270

Arg Cys Pro Val Thr Trp Ala Gln Val Tyr Glu Ala Glu Leu Lys Lys
        275                 280                 285

Gly Asn Ser Glu Gln Ser Ala Arg Glu Arg Ala Glu Lys Leu Ser Lys
    290                 295                 300

Val Pro Thr Ala Asn Cys Pro Glu Phe Tyr Glu Tyr Arg Met Ala Arg
305                 310                 315                 320

Ile Leu Cys Asn Ile Arg Ala Asp Gly Glu Pro Leu Ser Ala Glu Ile
                325                 330                 335

Arg Arg Glu Leu Met Asn Gln Ala Arg Gln Glu Gly Lys Leu Thr Lys
            340                 345                 350

Ala Ser Leu Glu Lys Ala Ile Ser Ser Arg Leu Gly Lys Glu Thr Glu
        355                 360                 365

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

Leu Tyr Leu Asn Pro Ala Val Glu Val Leu Gln Arg Ser Gly Ile Gly
385                 390                 395                 400

Gln Ile Leu Ser Pro Ser Val Tyr Arg Ile Ala Ala Asn Arg Leu Arg
                405                 410                 415

Arg Gly Lys Ser Val Thr Pro Asn Tyr Leu Leu Asn Leu Leu Lys Ser
            420                 425                 430
```

```
Arg Gly Glu Ser Gly Glu Ala Leu Glu Lys Lys Ile Glu Lys Glu Ser
        435                 440                 445

Lys Lys Lys Glu Ala Asp Tyr Ala Asp Thr Pro Leu Lys Pro Lys Tyr
    450                 455                 460

Ala Thr Gly Arg Ala Pro Tyr Ala Arg Thr Val Leu Lys Lys Val Val
465                 470                 475                 480

Glu Glu Ile Leu Asp Gly Glu Asp Pro Thr Arg Pro Ala Arg Gly Glu
                485                 490                 495

Ala His Pro Asp Gly Glu Leu Lys Ala His Asp Gly Cys Leu Tyr Cys
            500                 505                 510

Leu Leu Asp Thr Asp Ser Ser Val Asn Gln His Gln Lys Glu Arg Arg
        515                 520                 525

Leu Asp Thr Met Thr Asn Asn His Leu Val Arg His Arg Met Leu Ile
    530                 535                 540

Leu Asp Arg Leu Leu Lys Asp Leu Ile Gln Asp Phe Ala Asp Gly Gln
545                 550                 555                 560

Lys Asp Arg Ile Ser Arg Val Cys Val Glu Val Gly Lys Glu Leu Thr
                565                 570                 575

Thr Phe Ser Ala Met Asp Ser Lys Lys Ile Gln Arg Glu Leu Thr Leu
            580                 585                 590

Arg Gln Lys Ser His Thr Asp Ala Val Asn Arg Leu Lys Arg Lys Leu
        595                 600                 605

Pro Gly Lys Ala Leu Ser Ala Asn Leu Ile Arg Lys Cys Arg Ile Ala
    610                 615                 620

Met Asp Met Asn Trp Thr Cys Pro Phe Thr Gly Ala Thr Tyr Gly Asp
625                 630                 635                 640

His Glu Leu Glu Asn Leu Glu Leu Glu His Ile Val Pro His Ser Phe
                645                 650                 655

Arg Gln Ser Asn Ala Leu Ser Ser Leu Val Leu Thr Trp Pro Gly Val
            660                 665                 670

Asn Arg Met Lys Gly Gln Arg Thr Gly Tyr Asp Phe Val Glu Gln Glu
        675                 680                 685

Gln Glu Asn Pro Val Pro Asp Lys Pro Asn Leu His Ile Cys Ser Leu
    690                 695                 700
```

```
Asn Asn Tyr Arg Glu Leu Val Glu Lys Leu Asp Asp Lys Lys Gly His
705                 710                 715                 720

Glu Asp Asp Arg Arg Arg Lys Lys Lys Arg Lys Ala Leu Leu Met Val
                725                 730                 735

Arg Gly Leu Ser His Lys His Gln Ser Gln Asn His Glu Ala Met Lys
            740                 745                 750

Glu Ile Gly Met Thr Glu Gly Met Met Thr Gln Ser Ser His Leu Met
        755                 760                 765

Lys Leu Ala Cys Lys Ser Ile Lys Thr Ser Leu Pro Asp Ala His Ile
    770                 775                 780

Asp Met Ile Pro Gly Ala Val Thr Ala Glu Val Arg Lys Ala Trp Asp
785                 790                 795                 800

Val Phe Gly Val Phe Lys Glu Leu Cys Pro Glu Ala Ala Asp Pro Asp
                805                 810                 815

Ser Gly Lys Ile Leu Lys Glu Asn Leu Arg Ser Leu Thr His Leu His
            820                 825                 830

His Ala Leu Asp Ala Cys Val Leu Gly Leu Ile Pro Tyr Ile Ile Pro
        835                 840                 845

Ala His His Asn Gly Leu Leu Arg Arg Val Leu Ala Met Arg Arg Ile
    850                 855                 860

Pro Glu Lys Leu Ile Pro Gln Val Arg Pro Val Ala Asn Gln Arg His
865                 870                 875                 880

Tyr Val Leu Asn Asp Asp Gly Arg Met Met Leu Arg Asp Leu Ser Ala
                885                 890                 895

Ser Leu Lys Glu Asn Ile Arg Glu Gln Leu Met Glu Gln Arg Val Ile
            900                 905                 910

Gln His Val Pro Ala Asp Met Gly Gly Ala Leu Leu Lys Glu Thr Met
        915                 920                 925

Gln Arg Val Leu Ser Val Asp Gly Ser Gly Glu Asp Ala Met Val Ser
    930                 935                 940

Leu Ser Lys Lys Lys Asp Gly Lys Lys Glu Lys Asn Gln Val Lys Ala
945                 950                 955                 960

Ser Lys Leu Val Gly Val Phe Pro Glu Gly Pro Ser Lys Leu Lys Ala
                965                 970                 975
```

Leu Lys Ala Ala Ile Glu Ile Asp Gly Asn Tyr Gly Val Ala Leu Asp
980 985 990

Pro Lys Pro Val Val Ile Arg His Ile Lys Val Phe Lys Arg Ile Met
995 1000 1005

Ala Leu Lys Glu Gln Asn Gly Gly Lys Pro Val Arg Ile Leu Lys
1010 1015 1020

Lys Gly Met Leu Ile His Leu Thr Ser Ser Lys Asp Pro Lys His
1025 1030 1035

Ala Gly Val Trp Arg Ile Glu Ser Ile Gln Asp Ser Lys Gly Gly
1040 1045 1050

Val Lys Leu Asp Leu Gln Arg Ala His Cys Ala Val Pro Lys Asn
1055 1060 1065

Lys Thr His Glu Cys Asn Trp Arg Glu Val Asp Leu Ile Ser Leu
1070 1075 1080

Leu Lys Lys Tyr Gln Met Lys Arg Tyr Pro Thr Ser Tyr Thr Gly
1085 1090 1095

Thr Pro Arg
1100

<210> 339
<211> 1424
<212> PRT
<213> Prevotella sp.

<400> 339

Met Thr Gln Lys Val Leu Gly Leu Asp Leu Gly Thr Asn Ser Ile Gly
1 5 10 15

Ser Ala Val Arg Asn Leu Asp Leu Ser Asp Asp Leu Gln Trp Gln Leu
20 25 30

Glu Phe Phe Ser Ser Asp Ile Phe Arg Ser Ser Val Asn Lys Glu Ser
35 40 45

Asn Gly Arg Glu Tyr Ser Leu Ala Ala Gln Arg Ser Ala His Arg Arg
50 55 60

Ser Arg Gly Leu Asn Glu Val Arg Arg Arg Arg Leu Trp Ala Thr Leu
65 70 75 80

Asn Leu Leu Ile Lys His Gly Phe Cys Pro Met Ser Ser Glu Ser Leu
85 90 95

Met Arg Trp Cys Thr Tyr Asp Lys Arg Lys Gly Leu Phe Arg Glu Tyr

100 105 110

Pro Ile Asp Asp Lys Asp Phe Asn Ala Trp Ile Leu Leu Asp Phe Asn
115 120 125

Gly Asp Gly Arg Pro Asp Tyr Ser Ser Pro Tyr Gln Leu Arg Arg Glu
130 135 140

Leu Val Thr Arg Gln Phe Asp Phe Glu Gln Pro Ile Glu Arg Tyr Lys
145 150 155 160

Leu Gly Arg Ala Leu Tyr His Ile Ala Gln His Arg Gly Phe Lys Ser
165 170 175

Ser Lys Gly Glu Thr Leu Ser Gln Gln Glu Thr Asn Ser Lys Pro Ser
180 185 190

Ser Thr Asp Glu Ile Pro Asp Val Ala Gly Ala Met Lys Ala Ser Glu
195 200 205

Glu Lys Leu Ser Lys Gly Leu Ser Thr Tyr Met Lys Glu His Asn Leu
210 215 220

Leu Thr Val Gly Ala Ala Phe Ala Gln Leu Glu Asp Glu Gly Val Arg
225 230 235 240

Val Arg Asn Asn Asn Asp Tyr Arg Ala Ile Arg Ser Gln Phe Gln His
245 250 255

Glu Ile Glu Thr Ile Phe Lys Phe Gln Gln Gly Leu Ser Val Glu Ser
260 265 270

Glu Leu Tyr Glu Arg Leu Ile Ser Glu Lys Lys Asn Val Gly Thr Ile
275 280 285

Phe Tyr Lys Arg Pro Leu Arg Ser Gln Arg Gly Asn Val Gly Lys Cys
290 295 300

Thr Leu Glu Arg Ser Lys Pro Arg Cys Ala Ile Gly His Pro Leu Phe
305 310 315 320

Glu Lys Phe Arg Ala Trp Thr Leu Ile Asn Asn Ile Lys Val Arg Met
325 330 335

Ser Val Asp Thr Leu Asp Glu Gln Leu Pro Met Lys Leu Arg Leu Asp
340 345 350

Leu Tyr Asn Glu Cys Phe Leu Ala Phe Val Arg Thr Glu Phe Lys Phe
355 360 365

Glu Asp Ile Arg Lys Tyr Leu Glu Lys Arg Leu Gly Ile His Phe Ser

370 375 380

Tyr Asn Asp Lys Thr Ile Asn Tyr Lys Asp Ser Thr Ser Val Ala Gly
385 390 395 400

Cys Pro Ile Thr Ala Arg Phe Arg Lys Met Leu Gly Glu Glu Trp Glu
405 410 415

Ser Phe Arg Val Glu Gly Gln Lys Glu Arg Gln Ala His Ser Lys Asn
420 425 430

Asn Ile Ser Phe His Arg Val Ser Tyr Ser Ile Glu Asp Ile Trp His
435 440 445

Phe Cys Tyr Asp Ala Glu Glu Pro Glu Ala Val Leu Ala Phe Ala Gln
450 455 460

Glu Thr Leu Arg Leu Glu Arg Lys Lys Ala Glu Glu Leu Val Arg Ile
465 470 475 480

Trp Ser Ala Met Pro Gln Gly Tyr Ala Met Leu Ser Gln Lys Ala Ile
485 490 495

Arg Asn Ile Asn Lys Ile Leu Met Leu Gly Leu Lys Tyr Ser Asp Ala
500 505 510

Val Ile Leu Ala Lys Val Pro Glu Leu Val Asp Val Ser Asp Glu Glu
515 520 525

Leu Leu Ser Ile Ala Lys Asp Tyr Tyr Leu Val Glu Ala Gln Val Asn
530 535 540

Tyr Asp Lys Arg Ile Asn Ser Ile Val Asn Gly Leu Ile Ala Lys Tyr
545 550 555 560

Lys Ser Val Ser Glu Glu Tyr Arg Phe Ala Asp His Asn Tyr Glu Tyr
565 570 575

Leu Leu Asp Glu Ser Asp Glu Lys Asp Ile Ile Arg Gln Ile Glu Asn
580 585 590

Ser Leu Gly Ala Arg Arg Trp Ser Leu Met Asp Ala Asn Glu Gln Thr
595 600 605

Asp Ile Leu Gln Lys Val Arg Asp Arg Tyr Gln Asp Phe Phe Arg Ser
610 615 620

His Glu Arg Lys Phe Val Glu Ser Pro Lys Leu Gly Glu Ser Phe Glu
625 630 635 640

Asn Tyr Leu Thr Lys Lys Phe Pro Met Val Glu Arg Glu Gln Trp Lys

645 650 655

Lys Leu Tyr His Pro Ser Gln Ile Thr Ile Tyr Arg Pro Val Ser Val
660 665 670

Gly Lys Asp Arg Ser Val Leu Arg Leu Gly Asn Pro Asp Ile Gly Ala
675 680 685

Ile Lys Asn Pro Thr Val Leu Arg Val Leu Asn Thr Leu Arg Arg Arg
690 695 700

Val Asn Gln Leu Leu Asp Asp Gly Val Ile Ser Pro Asp Glu Thr Arg
705 710 715 720

Val Val Val Glu Thr Ala Arg Glu Leu Asn Asp Ala Asn Arg Lys Trp
725 730 735

Ala Leu Asp Thr Tyr Asn Arg Ile Arg His Asp Glu Asn Glu Lys Ile
740 745 750

Lys Lys Ile Leu Glu Glu Phe Tyr Pro Lys Arg Asp Gly Ile Ser Thr
755 760 765

Asp Asp Ile Asp Lys Ala Arg Tyr Val Ile Asp Gln Arg Glu Val Asp
770 775 780

Tyr Phe Thr Gly Ser Lys Thr Tyr Asn Lys Asp Ile Lys Lys Tyr Lys
785 790 795 800

Phe Trp Leu Glu Gln Gly Gly Gln Cys Met Tyr Thr Gly Arg Thr Ile
805 810 815

Asn Leu Ser Asn Leu Phe Asp Pro Asn Ala Phe Asp Ile Glu His Thr
820 825 830

Ile Pro Glu Ser Leu Ser Phe Asp Ser Ser Asp Met Asn Leu Thr Leu
835 840 845

Cys Asp Ala His Tyr Asn Arg Phe Ile Lys Lys Asn His Ile Pro Thr
850 855 860

Asp Met Pro Asn Tyr Asp Lys Ala Ile Thr Ile Asp Gly Lys Glu Tyr
865 870 875 880

Pro Ala Ile Thr Ser Gln Leu Gln Arg Trp Val Glu Arg Val Glu Arg
885 890 895

Leu Asn Arg Asn Val Glu Tyr Trp Lys Gly Gln Ala Arg Arg Ala Gln
900 905 910

Asn Lys Asp Arg Lys Asp Gln Cys Met Arg Glu Met His Leu Trp Lys

915 920 925

Met Glu Leu Glu Tyr Trp Lys Lys Lys Leu Glu Arg Phe Thr Val Thr
930 935 940

Glu Val Thr Asp Gly Phe Lys Asn Ser Gln Leu Val Asp Thr Arg Val
945 950 955 960

Ile Thr Arg His Ala Val Leu Tyr Leu Lys Ser Ile Phe Pro His Val
965 970 975

Asp Val Gln Arg Gly Asp Val Thr Ala Lys Phe Arg Lys Ile Leu Gly
980 985 990

Ile Gln Ser Val Asp Glu Lys Lys Asp Arg Ser Leu His Ser His His
995 1000 1005

Ala Ile Asp Ala Thr Thr Leu Thr Ile Ile Pro Val Ser Ala Lys
1010 1015 1020

Arg Asp Arg Met Leu Glu Leu Phe Ala Lys Ile Glu Glu Ile Asn
1025 1030 1035

Lys Met Leu Ser Phe Ser Gly Ser Glu Asp Arg Thr Gly Leu Ile
1040 1045 1050

Gln Glu Leu Glu Gly Leu Lys Asn Lys Leu Gln Met Glu Val Lys
1055 1060 1065

Val Cys Arg Ile Gly His Asn Val Ser Glu Ile Gly Thr Phe Ile
1070 1075 1080

Asn Asp Asn Ile Ile Val Asn His His Ile Lys Asn Gln Ala Leu
1085 1090 1095

Thr Pro Val Arg Arg Arg Leu Arg Lys Lys Gly Tyr Ile Val Gly
1100 1105 1110

Gly Val Asp Asn Pro Arg Trp Gln Thr Gly Asp Ala Leu Arg Gly
1115 1120 1125

Glu Ile His Lys Ala Ser Tyr Tyr Gly Ala Ile Thr Gln Phe Ala
1130 1135 1140

Lys Asp Asp Glu Gly Lys Val Leu Met Lys Glu Gly Arg Pro Gln
1145 1150 1155

Val Asn Pro Thr Ile Lys Phe Val Ile Arg Arg Glu Leu Lys Tyr
1160 1165 1170

Lys Lys Ser Ala Ala Asp Ser Gly Phe Ala Ser Trp Asp Asp Leu

1175 1180 1185

Gly Lys Ala Ile Val Asp Lys Glu Leu Phe Ala Leu Met Lys Gly
1190 1195 1200

Gln Phe Pro Ala Glu Thr Ser Phe Lys Asp Ala Cys Glu Gln Gly
1205 1210 1215

Ile Tyr Met Ile Lys Lys Gly Lys Asn Gly Met Pro Asp Ile Lys
1220 1225 1230

Leu His His Ile Arg His Val Arg Cys Glu Ala Pro Gln Ser Gly
1235 1240 1245

Leu Lys Ile Lys Glu Gln Thr Tyr Lys Ser Glu Lys Glu Tyr Lys
1250 1255 1260

Arg Tyr Phe Tyr Ala Ala Val Gly Asp Leu Tyr Ala Met Cys Cys
1265 1270 1275

Tyr Thr Asn Gly Lys Ile Arg Glu Phe Arg Ile Tyr Ser Leu Tyr
1280 1285 1290

Asp Val Ser Cys His Arg Lys Ser Asp Ile Glu Asp Ile Pro Glu
1295 1300 1305

Phe Ile Thr Asp Lys Lys Gly Asn Arg Leu Met Leu Asp Tyr Lys
1310 1315 1320

Leu Arg Thr Gly Asp Met Ile Leu Leu Tyr Lys Asp Asn Pro Ala
1325 1330 1335

Glu Leu Tyr Asp Leu Asp Asn Val Asn Leu Ser Arg Arg Leu Tyr
1340 1345 1350

Lys Ile Asn Arg Phe Glu Ser Gln Ser Asn Leu Val Leu Met Thr
1355 1360 1365

His His Leu Ser Thr Ser Lys Glu Arg Gly Arg Ser Leu Gly Lys
1370 1375 1380

Thr Val Asp Tyr Gln Asn Leu Pro Glu Ser Ile Arg Ser Ser Val
1385 1390 1395

Lys Ser Leu Asn Phe Leu Ile Met Gly Glu Asn Arg Asp Phe Val
1400 1405 1410

Ile Lys Asn Gly Lys Ile Ile Phe Asn His Arg
1415 1420

<210> 340

<211> 1409
<212> PRT
<213> Wolinella succinogenes

<400> 340

```
Met Leu Val Ser Pro Ile Ser Val Asp Leu Gly Gly Lys Asn Thr Gly
1               5                  10                  15

Phe Phe Ser Phe Thr Asp Ser Leu Asp Asn Ser Gln Ser Gly Thr Val
            20                  25                  30

Ile Tyr Asp Glu Ser Phe Val Leu Ser Gln Val Gly Arg Arg Ser Lys
        35                  40                  45

Arg His Ser Lys Arg Asn Asn Leu Arg Asn Lys Leu Val Lys Arg Leu
    50                  55                  60

Phe Leu Leu Ile Leu Gln Glu His His Gly Leu Ser Ile Asp Val Leu
65                  70                  75                  80

Pro Asp Glu Ile Arg Gly Leu Phe Asn Lys Arg Gly Tyr Thr Tyr Ala
                85                  90                  95

Gly Phe Glu Leu Asp Glu Lys Lys Lys Asp Ala Leu Glu Ser Asp Thr
            100                 105                 110

Leu Lys Glu Phe Leu Ser Glu Lys Leu Gln Ser Ile Asp Arg Asp Ser
        115                 120                 125

Asp Val Glu Asp Phe Leu Asn Gln Ile Ala Ser Asn Ala Glu Ser Phe
    130                 135                 140

Lys Asp Tyr Lys Lys Gly Phe Glu Ala Val Phe Ala Ser Ala Thr His
145                 150                 155                 160

Ser Pro Asn Lys Lys Leu Glu Leu Lys Asp Glu Leu Lys Ser Glu Tyr
                165                 170                 175

Gly Glu Asn Ala Lys Glu Leu Leu Ala Gly Leu Arg Val Thr Lys Glu
            180                 185                 190

Ile Leu Asp Glu Phe Asp Lys Gln Glu Asn Gln Gly Asn Leu Pro Arg
        195                 200                 205

Ala Lys Tyr Phe Glu Glu Leu Gly Glu Tyr Ile Ala Thr Asn Glu Lys
    210                 215                 220

Val Lys Ser Phe Phe Asp Ser Asn Ser Leu Lys Leu Thr Asp Met Thr
225                 230                 235                 240

Lys Leu Ile Gly Asn Ile Ser Asn Tyr Gln Leu Lys Glu Leu Arg Arg
                245                 250                 255
```

```
Tyr Phe Asn Asp Lys Glu Met Glu Lys Gly Asp Ile Trp Ile Pro Asn
            260                 265                 270

Lys Leu His Lys Ile Thr Glu Arg Phe Val Arg Ser Trp His Pro Lys
        275                 280                 285

Asn Asp Ala Asp Arg Gln Arg Arg Ala Glu Leu Met Lys Asp Leu Lys
    290                 295                 300

Ser Lys Glu Ile Met Glu Leu Leu Thr Thr Thr Glu Pro Val Met Thr
305                 310                 315                 320

Ile Pro Pro Tyr Asp Asp Met Asn Asn Arg Gly Ala Val Lys Cys Gln
                325                 330                 335

Thr Leu Arg Leu Asn Glu Glu Tyr Leu Asp Lys His Leu Pro Asn Trp
            340                 345                 350

Arg Asp Ile Ala Lys Arg Leu Asn His Gly Lys Phe Asn Asp Asp Leu
        355                 360                 365

Ala Asp Ser Thr Val Lys Gly Tyr Ser Glu Asp Ser Thr Leu Leu His
    370                 375                 380

Arg Leu Leu Asp Thr Ser Lys Glu Ile Asp Ile Tyr Glu Leu Arg Gly
385                 390                 395                 400

Lys Lys Pro Asn Glu Leu Leu Val Lys Thr Leu Gly Gln Ser Asp Ala
                405                 410                 415

Asn Arg Leu Tyr Gly Phe Ala Gln Asn Tyr Tyr Glu Leu Ile Arg Gln
            420                 425                 430

Lys Val Arg Ala Gly Ile Trp Val Pro Val Lys Asn Lys Asp Asp Ser
        435                 440                 445

Leu Asn Leu Glu Asp Asn Ser Asn Met Leu Lys Arg Cys Asn His Asn
    450                 455                 460

Pro Pro His Lys Lys Asn Gln Ile His Asn Leu Val Ala Gly Ile Leu
465                 470                 475                 480

Gly Val Lys Leu Asp Glu Ala Lys Phe Ala Glu Phe Glu Lys Glu Leu
                485                 490                 495

Trp Ser Ala Lys Val Gly Asn Lys Lys Leu Ser Ala Tyr Cys Lys Asn
            500                 505                 510

Ile Glu Glu Leu Arg Lys Thr His Gly Asn Thr Phe Lys Ile Asp Ile
        515                 520                 525
```

```
Glu Glu Leu Arg Lys Lys Asp Pro Ala Glu Leu Ser Lys Glu Glu Lys
    530                 535                 540

Ala Lys Leu Arg Leu Thr Asp Asp Val Ile Leu Asn Glu Trp Ser Gln
545                 550                 555                 560

Lys Ile Ala Asn Phe Phe Asp Ile Asp Asp Lys His Arg Gln Arg Phe
                565                 570                 575

Asn Asn Leu Phe Ser Met Ala Gln Leu His Thr Val Ile Asp Thr Pro
            580                 585                 590

Arg Ser Gly Phe Ser Ser Thr Cys Lys Arg Cys Thr Ala Glu Asn Arg
        595                 600                 605

Phe Arg Ser Glu Thr Ala Phe Tyr Asn Asp Glu Thr Gly Glu Phe His
    610                 615                 620

Lys Lys Ala Thr Ala Thr Cys Gln Arg Leu Pro Ala Asp Thr Gln Arg
625                 630                 635                 640

Pro Phe Ser Gly Lys Ile Glu Arg Tyr Ile Asp Lys Leu Gly Tyr Glu
                645                 650                 655

Leu Ala Lys Ile Lys Ala Lys Glu Leu Glu Gly Met Glu Ala Lys Glu
            660                 665                 670

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

Ser Leu Arg Lys Ser Lys Thr Gly Ser Asn Asp Arg Val Ile Asn Ser
    690                 695                 700

Lys Lys Asp Arg Asp Gly Lys Lys Leu Ala Lys Ala Lys Glu Asn Ala
705                 710                 715                 720

Glu Asp Arg Leu Lys Asp Lys Asp Lys Arg Ile Lys Ala Phe Ser Ser
                725                 730                 735

Gly Ile Cys Pro Tyr Cys Gly Asp Thr Ile Gly Asp Asp Gly Glu Ile
            740                 745                 750

Asp His Ile Leu Pro Arg Ser His Thr Leu Lys Ile Tyr Gly Thr Val
        755                 760                 765

Phe Asn Pro Glu Gly Asn Leu Ile Tyr Val His Gln Lys Cys Asn Gln
    770                 775                 780

Ala Lys Ala Asp Ser Ile Tyr Lys Leu Ser Asp Ile Lys Ala Gly Val
785                 790                 795                 800
```

```
Ser Ala Gln Trp Ile Glu Glu Gln Val Ala Asn Ile Lys Gly Tyr Lys
                805                 810                 815

Thr Phe Ser Val Leu Ser Ala Glu Gln Gln Lys Ala Phe Arg Tyr Ala
            820                 825                 830

Leu Phe Leu Gln Asn Asp Asn Glu Ala Tyr Lys Lys Val Val Asp Trp
        835                 840                 845

Leu Arg Thr Asp Gln Ser Ala Arg Val Asn Gly Thr Gln Lys Tyr Leu
    850                 855                 860

Ala Lys Lys Ile Gln Glu Lys Leu Thr Lys Met Leu Pro Asn Lys His
865                 870                 875                 880

Leu Ser Phe Glu Phe Ile Leu Ala Asp Ala Thr Glu Val Ser Glu Leu
                885                 890                 895

Arg Arg Gln Tyr Ala Arg Gln Asn Pro Leu Leu Ala Lys Ala Glu Lys
            900                 905                 910

Gln Ala Pro Ser Ser His Ala Ile Asp Ala Val Met Ala Phe Val Ala
        915                 920                 925

Arg Tyr Gln Lys Val Phe Lys Asp Gly Thr Pro Pro Asn Ala Asp Glu
    930                 935                 940

Val Ala Lys Leu Ala Met Leu Asp Ser Trp Asn Pro Ala Ser Asn Glu
945                 950                 955                 960

Pro Leu Thr Lys Gly Leu Ser Thr Asn Gln Lys Ile Glu Lys Met Ile
                965                 970                 975

Lys Ser Gly Asp Tyr Gly Gln Lys Asn Met Arg Glu Val Phe Gly Lys
            980                 985                 990

Ser Ile Phe Gly Glu Asn Ala Ile  Gly Glu Arg Tyr Lys  Pro Ile Val
        995                 1000                1005

Val Gln  Glu Gly Gly Tyr Tyr  Ile Gly Tyr Pro Ala  Thr Val Lys
    1010                1015                1020

Lys Gly  Tyr Glu Leu Lys Asn  Cys Lys Val Val Thr  Ser Lys Asn
    1025                1030                1035

Asp Ile  Ala Lys Leu Glu Lys  Ile Ile Lys Asn Gln  Asp Leu Ile
    1040                1045                1050

Ser Leu  Lys Glu Asn Gln Tyr  Ile Lys Ile Phe Ser  Ile Asn Lys
    1055                1060                1065
```

```
Gln Thr  Ile Ser Glu Leu Ser  Asn Arg Tyr Phe Asn  Met Asn Tyr
    1070                1075                1080

Lys Asn  Leu Val Glu Arg Asp  Lys Glu Ile Val Gly  Leu Leu Glu
    1085                1090                1095

Phe Ile  Val Glu Asn Cys Arg  Tyr Tyr Thr Lys Lys  Val Asp Val
    1100                1105                1110

Lys Phe  Ala Pro Lys Tyr Ile  His Glu Thr Lys Tyr  Pro Phe Tyr
    1115                1120                1125

Asp Asp  Trp Arg Arg Phe Asp  Glu Ala Trp Arg Tyr  Leu Gln Glu
    1130                1135                1140

Asn Gln  Asn Lys Thr Ser Ser  Lys Asp Arg Phe Val  Ile Asp Lys
    1145                1150                1155

Ser Ser  Leu Asn Glu Tyr Tyr  Gln Pro Asp Lys Asn  Glu Tyr Lys
    1160                1165                1170

Leu Asp  Val Asp Thr Gln Pro  Ile Trp Asp Asp Phe  Cys Arg Trp
    1175                1180                1185

Tyr Phe  Leu Asp Arg Tyr Lys  Thr Ala Asn Asp Lys  Lys Ser Ile
    1190                1195                1200

Arg Ile  Lys Ala Arg Lys Thr  Phe Ser Leu Leu Ala  Glu Ser Gly
    1205                1210                1215

Val Gln  Gly Lys Val Phe Arg  Ala Lys Arg Lys Ile  Pro Thr Gly
    1220                1225                1230

Tyr Ala  Tyr Gln Ala Leu Pro  Met Asp Asn Asn Val  Ile Ala Gly
    1235                1240                1245

Asp Tyr  Ala Asn Ile Leu Leu  Glu Ala Asn Ser Lys  Thr Leu Ser
    1250                1255                1260

Leu Val  Pro Lys Ser Gly Ile  Ser Ile Glu Lys Gln  Leu Asp Lys
    1265                1270                1275

Lys Leu  Asp Val Ile Lys Lys  Thr Asp Val Arg Gly  Leu Ala Ile
    1280                1285                1290

Asp Asn  Asn Ser Phe Phe Asn  Ala Asp Phe Asp Thr  His Gly Ile
    1295                1300                1305

Arg Leu  Ile Val Glu Asn Thr  Ser Val Lys Val Gly  Asn Phe Pro
    1310                1315                1320
```

```
Ile Ser  Ala Ile Asp Lys Ser  Ala Lys Arg Met Ile  Phe Arg Ala
    1325                 1330                 1335

Leu Phe  Glu Lys Glu Lys Gly  Lys Arg Lys Lys Lys  Thr Thr Ile
    1340                 1345                 1350

Ser Phe  Lys Glu Ser Gly Pro  Val Gln Asp Tyr Leu  Lys Val Phe
    1355                 1360                 1365

Leu Lys  Lys Ile Val Lys Ile  Gln Leu Arg Thr Asp  Gly Ser Ile
    1370                 1375                 1380

Ser Asn  Ile Val Val Arg Lys  Asn Ala Ala Asp Phe  Thr Leu Ser
    1385                 1390                 1395

Phe Arg  Ser Glu His Ile Gln  Lys Leu Leu Lys
    1400                 1405
```

<210> 341
<211> 1146
<212> PRT
<213> Alicyclobacillus hesperidum

<400> 341

```
Met Ala Tyr Arg Leu Gly Leu Asp Ile Gly Ile Thr Ser Val Gly Trp
1               5                   10                  15

Ala Val Val Ala Leu Glu Lys Asp Glu Ser Gly Leu Lys Pro Val Arg
            20                  25                  30

Ile Gln Asp Leu Gly Val Arg Ile Phe Asp Lys Ala Glu Asp Ser Lys
        35                  40                  45

Thr Gly Ala Ser Leu Ala Leu Pro Arg Arg Glu Ala Arg Ser Ala Arg
    50                  55                  60

Arg Arg Thr Arg Arg Arg Arg Arg His Arg Leu Trp Arg Val Lys Arg Leu
65                  70                  75                  80

Leu Glu Gln His Gly Ile Leu Ser Met Glu Gln Ile Glu Ala Leu Tyr
                85                  90                  95

Ala Gln Arg Thr Ser Ser Pro Asp Val Tyr Ala Leu Arg Val Ala Gly
            100                 105                 110

Leu Asp Arg Cys Leu Ile Ala Glu Glu Ile Ala Arg Val Leu Ile His
        115                 120                 125

Ile Ala His Arg Arg Gly Phe Gln Ser Asn Arg Lys Ser Glu Ile Lys
    130                 135                 140
```

```
Asp Ser Asp Ala Gly Lys Leu Leu Lys Ala Val Gln Glu Asn Glu Asn
145                 150                 155                 160

Leu Met Gln Ser Lys Gly Tyr Arg Thr Val Ala Glu Met Leu Val Ser
                165                 170                 175

Glu Ala Thr Lys Thr Asp Ala Glu Gly Lys Leu Val His Gly Lys Lys
            180                 185                 190

His Gly Tyr Val Ser Asn Val Arg Asn Lys Ala Gly Glu Tyr Arg His
        195                 200                 205

Thr Val Ser Arg Gln Ala Ile Val Asp Glu Val Arg Lys Ile Phe Ala
    210                 215                 220

Ala Gln Arg Ala Leu Gly Asn Asp Val Met Ser Glu Glu Leu Glu Asp
225                 230                 235                 240

Ser Tyr Leu Lys Ile Leu Cys Ser Gln Arg Asn Phe Asp Asp Gly Pro
                245                 250                 255

Gly Gly Asp Ser Pro Tyr Gly His Gly Ser Val Ser Pro Asp Gly Val
            260                 265                 270

Arg Gln Ser Ile Tyr Glu Arg Met Val Gly Ser Cys Thr Phe Glu Thr
        275                 280                 285

Gly Glu Lys Arg Ala Pro Arg Ser Ser Tyr Ser Phe Glu Arg Phe Gln
    290                 295                 300

Leu Leu Thr Lys Val Val Asn Leu Arg Ile Tyr Arg Gln Gln Glu Asp
305                 310                 315                 320

Gly Gly Arg Tyr Pro Cys Glu Leu Thr Gln Thr Glu Arg Ala Arg Val
                325                 330                 335

Ile Asp Cys Ala Tyr Glu Gln Thr Lys Ile Thr Tyr Gly Lys Leu Arg
            340                 345                 350

Lys Leu Leu Asp Met Lys Asp Thr Glu Ser Phe Ala Gly Leu Thr Tyr
        355                 360                 365

Gly Leu Asn Arg Ser Arg Asn Lys Thr Glu Asp Thr Val Phe Val Glu
    370                 375                 380

Met Lys Phe Tyr His Glu Val Arg Lys Ala Leu Gln Arg Ala Gly Val
385                 390                 395                 400

Phe Ile Gln Asp Leu Ser Ile Glu Thr Leu Asp Gln Ile Gly Trp Ile
                405                 410                 415
```

```
Leu Ser Val Trp Lys Ser Asp Asp Asn Arg Arg Lys Lys Leu Ser Thr
            420                 425                 430

Leu Gly Leu Ser Asp Asn Val Ile Glu Glu Leu Leu Pro Leu Asn Gly
        435                 440                 445

Ser Lys Phe Gly His Leu Ser Leu Lys Ala Ile Arg Lys Ile Leu Pro
    450                 455                 460

Phe Leu Glu Asp Gly Tyr Ser Tyr Asp Val Ala Cys Glu Leu Ala Gly
465                 470                 475                 480

Tyr Gln Phe Gln Gly Lys Thr Glu Tyr Val Lys Gln Arg Leu Leu Pro
                485                 490                 495

Pro Leu Gly Glu Gly Glu Val Thr Asn Pro Val Val Arg Arg Ala Leu
            500                 505                 510

Ser Gln Ala Ile Lys Val Val Asn Ala Val Ile Arg Lys His Gly Ser
        515                 520                 525

Pro Glu Ser Ile His Ile Glu Leu Ala Arg Glu Leu Ser Lys Asn Leu
    530                 535                 540

Asp Glu Arg Arg Lys Ile Glu Lys Ala Gln Lys Glu Asn Gln Lys Asn
545                 550                 555                 560

Asn Glu Gln Ile Lys Asp Glu Ile Arg Glu Ile Leu Gly Ser Ala His
                565                 570                 575

Val Thr Gly Arg Asp Ile Val Lys Tyr Lys Leu Phe Lys Gln Gln Gln
            580                 585                 590

Glu Phe Cys Met Tyr Ser Gly Glu Lys Leu Asp Val Thr Arg Leu Phe
        595                 600                 605

Glu Pro Gly Tyr Ala Glu Val Asp His Ile Ile Pro Tyr Gly Ile Ser
    610                 615                 620

Phe Asp Asp Ser Tyr Asp Asn Lys Val Leu Val Lys Thr Glu Gln Asn
625                 630                 635                 640

Arg Gln Lys Gly Asn Arg Thr Pro Leu Glu Tyr Leu Arg Asp Lys Pro
                645                 650                 655

Glu Gln Lys Ala Lys Phe Ile Ala Leu Val Glu Ser Ile Pro Leu Ser
            660                 665                 670

Gln Lys Lys Lys Asn His Leu Leu Met Asp Lys Arg Ala Ile Asp Leu
        675                 680                 685
```

```
Glu Gln Glu Gly Phe Arg Glu Arg Asn Leu Ser Asp Thr Arg Tyr Ile
    690                 695                 700

Thr Arg Ala Leu Met Asn His Ile Gln Ala Trp Leu Leu Phe Asp Glu
705                 710                 715                 720

Thr Ala Ser Thr Arg Ser Lys Arg Val Val Cys Val Asn Gly Ala Val
                725                 730                 735

Thr Ala Tyr Met Arg Ala Arg Trp Gly Leu Thr Lys Asp Arg Asp Ala
            740                 745                 750

Gly Asp Lys His His Ala Ala Asp Ala Val Val Val Ala Cys Ile Gly
        755                 760                 765

Asp Ser Leu Ile Gln Arg Val Thr Lys Tyr Asp Lys Phe Lys Arg Asn
    770                 775                 780

Ala Leu Ala Asp Arg Asn Arg Tyr Val Gln Gln Val Ser Lys Ser Glu
785                 790                 795                 800

Gly Ile Thr Gln Tyr Val Asp Lys Glu Thr Gly Glu Val Phe Thr Trp
                805                 810                 815

Glu Ser Phe Asp Glu Arg Lys Phe Leu Pro Asn Glu Pro Leu Glu Pro
            820                 825                 830

Trp Pro Phe Phe Arg Asp Glu Leu Leu Ala Arg Leu Ser Asp Asp Pro
        835                 840                 845

Ser Lys Asn Ile Arg Ala Ile Gly Leu Leu Thr Tyr Ser Glu Thr Glu
    850                 855                 860

Gln Ile Asp Pro Ile Phe Val Ser Arg Met Pro Thr Arg Lys Val Thr
865                 870                 875                 880

Gly Ala Ala His Lys Glu Thr Ile Arg Ser Pro Arg Ile Val Lys Val
                885                 890                 895

Asp Asp Asn Lys Gly Thr Glu Ile Gln Val Val Val Ser Lys Val Ala
            900                 905                 910

Leu Thr Glu Leu Lys Leu Thr Lys Asp Gly Glu Ile Lys Asp Tyr Phe
        915                 920                 925

Arg Pro Glu Asp Asp Pro Arg Leu Tyr Asn Thr Leu Arg Glu Arg Leu
    930                 935                 940

Val Gln Phe Gly Gly Asp Ala Lys Ala Ala Phe Lys Glu Pro Val Tyr
945                 950                 955                 960
```

```
Lys Ile Ser Lys Asp Gly Ser Val Arg Thr Pro Val Arg Lys Val Lys
               965                 970                 975

Ile Gln Glu Lys Leu Thr Leu Gly Val Pro Val His Gly Gly Arg Gly
           980                 985                 990

Ile Ala Glu Asn Gly Gly Met Val  Arg Ile Asp Val Phe  Ala Lys Gly
       995                 1000                1005

Gly Lys  Tyr Tyr Phe Val Pro  Ile Tyr Val Ala Asp  Val Leu Lys
   1010                1015                1020

Arg Glu  Leu Pro Asn Arg Leu  Ala Thr Ala His Lys  Pro Tyr Ser
   1025                1030                1035

Glu Trp  Arg Val Val Asp Asp  Ser Tyr Gln Phe Lys  Phe Ser Leu
   1040                1045                1050

Tyr Pro  Asn Asp Ala Val Met  Ile Lys Pro Ser Arg  Glu Val Asp
   1055                1060                1065

Ile Thr  Tyr Lys Asp Arg Lys  Glu Pro Val Gly Cys  Arg Ile Met
   1070                1075                1080

Tyr Phe  Val Ser Ala Asn Ile  Ala Ser Ala Ser Ile  Ser Leu Arg
   1085                1090                1095

Thr His  Asp Asn Ser Gly Glu  Leu Glu Gly Leu Gly  Ile Gln Gly
   1100                1105                1110

Leu Glu  Val Phe Glu Lys Tyr  Val Val Gly Pro Leu  Gly Asp Thr
   1115                1120                1125

His Pro  Val Tyr Lys Glu Arg  Arg Met Pro Phe Arg  Val Glu Arg
   1130                1135                1140

Lys Met  Asn
   1145
```

<210> 342
<211> 1442
<212> PRT
<213> Caenispirillum salinarum

<400> 342

```
Met Pro Val Leu Ser Pro Leu Ser Pro Asn Ala Ala Gln Gly Arg Arg
1               5                  10                  15

Arg Trp Ser Leu Ala Leu Asp Ile Gly Glu Gly Ser Ile Gly Trp Ala
            20                  25                  30
```

```
Val Ala Glu Val Asp Ala Glu Gly Arg Val Leu Gln Leu Thr Gly Thr
        35                  40                  45

Gly Val Thr Leu Phe Pro Ser Ala Trp Ser Asn Glu Asn Gly Thr Tyr
    50                  55                  60

Val Ala His Gly Ala Ala Asp Arg Ala Val Arg Gly Gln Gln Gln Arg
65                  70                  75                  80

His Asp Ser Arg Arg Arg Arg Leu Ala Gly Leu Ala Arg Leu Cys Ala
                85                  90                  95

Pro Val Leu Glu Arg Ser Pro Glu Asp Leu Lys Asp Leu Thr Arg Thr
            100                 105                 110

Pro Pro Lys Ala Asp Pro Arg Ala Ile Phe Phe Leu Arg Ala Asp Ala
        115                 120                 125

Ala Arg Arg Pro Leu Asp Gly Pro Glu Leu Phe Arg Val Leu His His
    130                 135                 140

Met Ala Ala His Arg Gly Ile Arg Leu Ala Glu Leu Gln Glu Val Asp
145                 150                 155                 160

Pro Pro Pro Glu Ser Asp Ala Asp Asp Ala Ala Pro Ala Ala Thr Glu
                165                 170                 175

Asp Glu Asp Gly Thr Arg Arg Ala Ala Ala Asp Glu Arg Ala Phe Arg
            180                 185                 190

Arg Leu Met Ala Glu His Met His Arg His Gly Thr Gln Pro Thr Cys
        195                 200                 205

Gly Glu Ile Met Ala Gly Arg Leu Arg Glu Thr Pro Ala Gly Ala Gln
    210                 215                 220

Pro Val Thr Arg Ala Arg Asp Gly Leu Arg Val Gly Gly Gly Val Ala
225                 230                 235                 240

Val Pro Thr Arg Ala Leu Ile Glu Gln Glu Phe Asp Ala Ile Arg Ala
                245                 250                 255

Ile Gln Ala Pro Arg His Pro Asp Leu Pro Trp Asp Ser Leu Arg Arg
            260                 265                 270

Leu Val Leu Asp Gln Ala Pro Ile Ala Val Pro Pro Ala Thr Pro Cys
        275                 280                 285

Leu Phe Leu Glu Glu Leu Arg Arg Arg Gly Glu Thr Phe Gln Gly Arg
    290                 295                 300
```

```
Thr Ile Thr Arg Glu Ala Ile Asp Arg Gly Leu Thr Val Asp Pro Leu
305                 310                 315                 320

Ile Gln Ala Leu Arg Ile Arg Glu Thr Val Gly Asn Leu Arg Leu His
                325                 330                 335

Glu Arg Ile Thr Glu Pro Asp Gly Arg Gln Arg Tyr Val Pro Arg Ala
            340                 345                 350

Met Pro Glu Leu Gly Leu Ser His Gly Glu Leu Thr Ala Pro Glu Arg
        355                 360                 365

Asp Thr Leu Val Arg Ala Leu Met His Asp Pro Asp Gly Leu Ala Ala
    370                 375                 380

Lys Asp Gly Arg Ile Pro Tyr Thr Arg Leu Arg Lys Leu Ile Gly Tyr
385                 390                 395                 400

Asp Asn Ser Pro Val Cys Phe Ala Gln Glu Arg Asp Thr Ser Gly Gly
                405                 410                 415

Gly Ile Thr Val Asn Pro Thr Asp Pro Leu Met Ala Arg Trp Ile Asp
            420                 425                 430

Gly Trp Val Asp Leu Pro Leu Lys Ala Arg Ser Leu Tyr Val Arg Asp
        435                 440                 445

Val Val Ala Arg Gly Ala Asp Ser Ala Ala Leu Ala Arg Leu Leu Ala
    450                 455                 460

Glu Gly Ala His Gly Val Pro Pro Val Ala Ala Ala Ala Val Pro Ala
465                 470                 475                 480

Ala Thr Ala Ala Ile Leu Glu Ser Asp Ile Met Gln Pro Gly Arg Tyr
                485                 490                 495

Ser Val Cys Pro Trp Ala Ala Glu Ala Ile Leu Asp Ala Trp Ala Asn
            500                 505                 510

Ala Pro Thr Glu Gly Phe Tyr Asp Val Thr Arg Gly Leu Phe Gly Phe
        515                 520                 525

Ala Pro Gly Glu Ile Val Leu Glu Asp Leu Arg Arg Ala Arg Gly Ala
    530                 535                 540

Leu Leu Ala His Leu Pro Arg Thr Met Ala Ala Ala Arg Thr Pro Asn
545                 550                 555                 560

Arg Ala Ala Gln Gln Arg Gly Pro Leu Pro Ala Tyr Glu Ser Val Ile
                565                 570                 575
```

```
Pro Ser Gln Leu Ile Thr Ser Leu Arg Arg Ala His Lys Gly Arg Ala
            580                 585                 590

Ala Asp Trp Ser Ala Ala Asp Pro Glu Glu Arg Asn Pro Phe Leu Arg
        595                 600                 605

Thr Trp Thr Gly Asn Ala Ala Thr Asp His Ile Leu Asn Gln Val Arg
    610                 615                 620

Lys Thr Ala Asn Glu Val Ile Thr Lys Tyr Gly Asn Arg Arg Gly Trp
625                 630                 635                 640

Asp Pro Leu Pro Ser Arg Ile Thr Val Glu Leu Ala Arg Glu Ala Lys
                645                 650                 655

His Gly Val Ile Arg Arg Asn Glu Ile Ala Lys Glu Asn Arg Glu Asn
            660                 665                 670

Glu Gly Arg Arg Lys Lys Glu Ser Ala Ala Leu Asp Thr Phe Cys Gln
        675                 680                 685

Asp Asn Thr Val Ser Trp Gln Ala Gly Gly Leu Pro Lys Glu Arg Ala
    690                 695                 700

Ala Leu Arg Leu Arg Leu Ala Gln Arg Gln Glu Phe Phe Cys Pro Tyr
705                 710                 715                 720

Cys Ala Glu Arg Pro Lys Leu Arg Ala Thr Asp Leu Phe Ser Pro Ala
                725                 730                 735

Glu Thr Glu Ile Asp His Val Ile Glu Arg Arg Met Gly Gly Asp Gly
            740                 745                 750

Pro Asp Asn Leu Val Leu Ala His Lys Asp Cys Asn Asn Ala Lys Gly
        755                 760                 765

Lys Lys Thr Pro His Glu His Ala Gly Asp Leu Leu Asp Ser Pro Ala
    770                 775                 780

Leu Ala Ala Leu Trp Gln Gly Trp Arg Lys Glu Asn Ala Asp Arg Leu
785                 790                 795                 800

Lys Gly Lys Gly His Lys Ala Arg Thr Pro Arg Glu Asp Lys Asp Phe
                805                 810                 815

Met Asp Arg Val Gly Trp Arg Phe Glu Glu Asp Ala Arg Ala Lys Ala
            820                 825                 830

Glu Glu Asn Gln Glu Arg Arg Gly Arg Arg Met Leu His Asp Thr Ala
        835                 840                 845
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Arg Ala Thr Arg Leu Ala Arg Leu Tyr Leu Ala Ala Ala Val Met Pro
    850                 855                 860

Glu Asp Pro Ala Glu Ile Gly Ala Pro Pro Val Glu Thr Pro Pro Ser
865                 870                 875                 880

Pro Glu Asp Pro Thr Gly Tyr Thr Ala Ile Tyr Arg Thr Ile Ser Arg
                885                 890                 895

Val Gln Pro Val Asn Gly Ser Val Thr His Met Leu Arg Gln Arg Leu
            900                 905                 910

Leu Gln Arg Asp Lys Asn Arg Asp Tyr Gln Thr His His Ala Glu Asp
        915                 920                 925

Ala Cys Leu Leu Leu Leu Ala Gly Pro Ala Val Val Gln Ala Phe Asn
    930                 935                 940

Thr Glu Ala Ala Gln His Gly Ala Asp Ala Pro Asp Asp Arg Pro Val
945                 950                 955                 960

Asp Leu Met Pro Thr Ser Asp Ala Tyr His Gln Gln Arg Arg Ala Arg
                965                 970                 975

Ala Leu Gly Arg Val Pro Leu Ala Thr Val Asp Ala Ala Leu Ala Asp
            980                 985                 990

Ile Val Met Pro Glu Ser Asp Arg  Gln Asp Pro Glu Thr  Gly Arg Val
        995                 1000                1005

His Trp  Arg Leu Thr Arg Ala  Gly Arg Gly Leu Lys  Arg Arg Ile
    1010                1015                1020

Asp Asp  Leu Thr Arg Asn Cys  Val Ile Leu Ser Arg  Pro Arg Arg
    1025                1030                1035

Pro Ser  Glu Thr Gly Thr Pro  Gly Ala Leu His Asn  Ala Thr His
    1040                1045                1050

Tyr Gly  Arg Arg Glu Ile Thr  Val Asp Gly Arg Thr  Asp Thr Val
    1055                1060                1065

Val Thr  Gln Arg Met Asn Ala  Arg Asp Leu Val Ala  Leu Leu Asp
    1070                1075                1080

Asn Ala  Lys Ile Val Pro Ala  Ala Arg Leu Asp Ala  Ala Ala Pro
    1085                1090                1095

Gly Asp  Thr Ile Leu Lys Glu  Ile Cys Thr Glu Ile  Ala Asp Arg
    1100                1105                1110
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```
His Asp  Arg Val Val Asp Pro  Glu Gly Thr His Ala  Arg Arg Trp
    1115                1120                1125

Ile Ser  Ala Arg Leu Ala Ala  Leu Val Pro Ala His  Ala Glu Ala
    1130                1135                1140

Val Ala  Arg Asp Ile Ala Glu  Leu Ala Asp Leu Asp  Ala Leu Ala
    1145                1150                1155

Asp Ala  Asp Arg Thr Pro Glu  Gln Glu Ala Arg Arg  Ser Ala Leu
    1160                1165                1170

Arg Gln  Ser Pro Tyr Leu Gly  Arg Ala Ile Ser Ala  Lys Lys Ala
    1175                1180                1185

Asp Gly  Arg Ala Arg Ala Arg  Glu Gln Glu Ile Leu  Thr Arg Ala
    1190                1195                1200

Leu Leu  Asp Pro His Trp Gly  Pro Arg Gly Leu Arg  His Leu Ile
    1205                1210                1215

Met Arg  Glu Ala Arg Ala Pro  Ser Leu Val Arg Ile  Arg Ala Asn
    1220                1225                1230

Lys Thr  Asp Ala Phe Gly Arg  Pro Val Pro Asp Ala  Ala Val Trp
    1235                1240                1245

Val Lys  Thr Asp Gly Asn Ala  Val Ser Gln Leu Trp  Arg Leu Thr
    1250                1255                1260

Ser Val  Val Thr Asp Asp Gly  Arg Arg Ile Pro Leu  Pro Lys Pro
    1265                1270                1275

Ile Glu  Lys Arg Ile Glu Ile  Ser Asn Leu Glu Tyr  Ala Arg Leu
    1280                1285                1290

Asn Gly  Leu Asp Glu Gly Ala  Gly Val Thr Gly Asn  Asn Ala Pro
    1295                1300                1305

Pro Arg  Pro Leu Arg Gln Asp  Ile Asp Arg Leu Thr  Pro Leu Trp
    1310                1315                1320

Arg Asp  His Gly Thr Ala Pro  Gly Gly Tyr Leu Gly  Thr Ala Val
    1325                1330                1335

Gly Glu  Leu Glu Asp Lys Ala  Arg Ser Ala Leu Arg  Gly Lys Ala
    1340                1345                1350

Met Arg  Gln Thr Leu Thr Asp  Ala Gly Ile Thr Ala  Glu Ala Gly
    1355                1360                1365
```

Trp Arg Leu Asp Ser Glu Gly Ala Val Cys Asp Leu Glu Val Ala
1370 1375 1380

Lys Gly Asp Thr Val Lys Lys Asp Gly Lys Thr Tyr Lys Val Gly
1385 1390 1395

Val Ile Thr Gln Gly Ile Phe Gly Met Pro Val Asp Ala Ala Gly
1400 1405 1410

Ser Ala Pro Arg Thr Pro Glu Asp Cys Glu Lys Phe Glu Glu Gln
1415 1420 1425

Tyr Gly Ile Lys Pro Trp Lys Ala Lys Gly Ile Pro Leu Ala
1430 1435 1440

<210> 343
<211> 1114
<212> PRT
<213> Eubacterium rectale

<400> 343

Met Asn Tyr Thr Glu Lys Glu Lys Leu Phe Met Lys Tyr Ile Leu Ala
1 5 10 15

Leu Asp Ile Gly Ile Ala Ser Val Gly Trp Ala Ile Leu Asp Lys Glu
20 25 30

Ser Glu Thr Val Ile Glu Ala Gly Ser Asn Ile Phe Pro Glu Ala Ser
35 40 45

Ala Ala Asp Asn Gln Leu Arg Arg Asp Met Arg Gly Ala Lys Arg Asn
50 55 60

Asn Arg Arg Leu Lys Thr Arg Ile Asn Asp Phe Ile Lys Leu Trp Glu
65 70 75 80

Asn Asn Asn Leu Ser Ile Pro Gln Phe Lys Ser Thr Glu Ile Val Gly
85 90 95

Leu Lys Val Arg Ala Ile Thr Glu Glu Ile Thr Leu Asp Glu Leu Tyr
100 105 110

Leu Ile Leu Tyr Ser Tyr Leu Lys His Arg Gly Ile Ser Tyr Leu Glu
115 120 125

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

Leu Lys Leu Asn Ala Lys Glu Leu Glu Thr His Tyr Pro Cys Glu Ile
145 150 155 160

Gln Gln Glu Arg Leu Asn Thr Ile Gly Lys Tyr Arg Gly Gln Ser Gln

165 170 175

Ile Ile Asn Glu Asn Gly Glu Val Leu Asp Leu Ser Asn Val Phe Thr
180 185 190

Ile Gly Ala Tyr Arg Lys Glu Ile Gln Arg Val Phe Glu Ile Gln Lys
195 200 205

Lys Tyr His Pro Glu Leu Thr Asp Glu Phe Cys Asp Gly Tyr Met Leu
210 215 220

Ile Phe Asn Arg Lys Arg Lys Tyr Tyr Glu Gly Pro Gly Asn Glu Lys
225 230 235 240

Ser Arg Thr Asp Tyr Gly Arg Phe Thr Thr Lys Leu Asp Ala Asn Gly
245 250 255

Asn Tyr Ile Thr Glu Asp Asn Ile Phe Glu Lys Leu Ile Gly Lys Cys
260 265 270

Ser Val Tyr Pro Asp Glu Leu Arg Ala Ala Ala Ala Ser Tyr Thr Ala
275 280 285

Gln Glu Tyr Asn Val Leu Asn Asp Leu Asn Asn Leu Thr Ile Asn Gly
290 295 300

Arg Lys Leu Glu Glu Asn Glu Lys His Glu Ile Val Glu Arg Ile Lys
305 310 315 320

Ser Ser Asn Thr Ile Asn Met Arg Lys Ile Ile Ser Asp Cys Met Gly
325 330 335

Glu Asn Ile Asp Asp Phe Ala Gly Ala Arg Ile Asp Lys Ser Gly Lys
340 345 350

Glu Ile Phe His Lys Phe Glu Val Tyr Asn Lys Met Arg Lys Ala Leu
355 360 365

Leu Glu Ile Gly Ile Asp Ile Ser Asn Tyr Ser Arg Glu Glu Leu Asp
370 375 380

Glu Ile Gly Tyr Ile Met Thr Ile Asn Thr Asp Lys Glu Ala Met Met
385 390 395 400

Glu Ala Phe Gln Lys Ser Trp Ile Asp Leu Ser Asp Asp Val Lys Gln
405 410 415

Cys Leu Ile Asn Met Arg Lys Thr Asn Gly Ala Leu Phe Asn Lys Trp
420 425 430

Gln Ser Phe Ser Leu Lys Ile Met Asn Glu Leu Ile Pro Glu Met Tyr

435 440 445

Ala Gln Pro Lys Glu Gln Met Thr Leu Leu Thr Glu Met Gly Val Thr
450 455 460

Lys Gly Thr Gln Glu Glu Phe Ala Gly Leu Lys Tyr Ile Pro Val Asp
465 470 475 480

Val Val Ser Glu Asp Ile Phe Asn Pro Val Val Arg Arg Ser Val Arg
485 490 495

Ile Ser Phe Lys Ile Leu Asn Ala Val Leu Lys Lys Tyr Lys Ala Leu
500 505 510

Asp Thr Ile Val Ile Glu Met Pro Arg Asp Arg Asn Ser Glu Glu Gln
515 520 525

Lys Lys Arg Ile Asn Asp Ser Gln Lys Leu Asn Glu Lys Glu Met Glu
530 535 540

Tyr Ile Glu Lys Lys Leu Ala Val Thr Tyr Gly Ile Lys Leu Ser Pro
545 550 555 560

Ser Asp Phe Ser Ser Gln Lys Gln Leu Ser Leu Lys Leu Lys Leu Trp
565 570 575

Asn Glu Gln Asp Gly Ile Cys Leu Tyr Ser Gly Lys Thr Ile Asp Pro
580 585 590

Asn Asp Ile Ile Asn Asn Pro Gln Leu Phe Glu Ile Asp His Ile Ile
595 600 605

Pro Arg Ser Ile Ser Phe Asp Asp Ala Arg Ser Asn Lys Val Leu Val
610 615 620

Tyr Arg Ser Glu Asn Gln Lys Lys Gly Asn Gln Thr Pro Tyr Tyr Tyr
625 630 635 640

Leu Thr His Ser His Ser Glu Trp Ser Phe Glu Gln Tyr Lys Ala Thr
645 650 655

Val Met Asn Leu Ser Lys Lys Lys Glu Tyr Ala Ile Ser Arg Lys Lys
660 665 670

Ile Gln Asn Leu Leu Tyr Ser Glu Asp Ile Thr Lys Met Asp Val Leu
675 680 685

Lys Gly Phe Ile Asn Arg Asn Ile Asn Asp Thr Ser Tyr Ala Ser Arg
690 695 700

Leu Val Leu Asn Thr Ile Gln Asn Phe Phe Met Ala Asn Glu Ala Asp

705 710 715 720

Thr Lys Val Lys Val Ile Lys Gly Ser Tyr Thr His Gln Met Arg Cys
725 730 735

Asn Leu Lys Leu Asp Lys Asn Arg Asp Glu Ser Tyr Ser His His Ala
740 745 750

Val Asp Ala Met Leu Ile Gly Tyr Ser Glu Leu Gly Tyr Glu Ala Tyr
755 760 765

His Lys Leu Gln Gly Glu Phe Ile Asp Phe Glu Thr Gly Glu Ile Leu
770 775 780

Arg Lys Asp Met Trp Asp Glu Asn Met Ser Asp Glu Val Tyr Ala Asp
785 790 795 800

Tyr Leu Tyr Gly Lys Lys Trp Ala Asn Ile Arg Asn Glu Val Val Lys
805 810 815

Ala Glu Lys Asn Val Lys Tyr Trp His Tyr Val Met Arg Lys Ser Asn
820 825 830

Arg Gly Leu Cys Asn Gln Thr Ile Arg Gly Thr Arg Glu Tyr Asp Gly
835 840 845

Lys Gln Tyr Lys Ile Asn Lys Leu Asp Ile Arg Thr Lys Glu Gly Ile
850 855 860

Lys Val Phe Ala Lys Leu Ala Phe Ser Lys Lys Asp Ser Asp Arg Glu
865 870 875 880

Arg Leu Leu Val Tyr Leu Asn Asp Arg Arg Thr Phe Asp Asp Leu Cys
885 890 895

Lys Ile Tyr Glu Asp Tyr Ser Asp Ala Ala Asn Pro Phe Val Gln Tyr
900 905 910

Glu Lys Glu Thr Gly Asp Ile Ile Arg Lys Tyr Ser Lys Lys His Asn
915 920 925

Gly Pro Arg Ile Asp Lys Leu Lys Tyr Lys Asp Gly Glu Val Gly Ala
930 935 940

Cys Ile Asp Ile Ser His Lys Tyr Gly Phe Glu Lys Gly Ser Lys Lys
945 950 955 960

Val Ile Leu Glu Ser Leu Val Pro Tyr Arg Met Asp Val Tyr Tyr Lys
965 970 975

Glu Glu Asn His Ser Tyr Tyr Leu Val Gly Val Lys Gln Ser Asp Ile

980 985 990

Lys Phe Glu Lys Gly Arg Asn Val Ile Asp Glu Glu Ala Tyr Ala Arg
995 1000 1005

Ile Leu Val Asn Glu Lys Met Ile Gln Pro Gly Gln Ser Arg Ala
1010 1015 1020

Asp Leu Glu Asn Leu Gly Phe Lys Phe Lys Leu Ser Phe Tyr Lys
1025 1030 1035

Asn Asp Ile Ile Glu Tyr Glu Lys Asp Gly Lys Ile Tyr Thr Glu
1040 1045 1050

Arg Leu Val Ser Arg Thr Met Pro Lys Gln Arg Asn Tyr Ile Glu
1055 1060 1065

Thr Lys Pro Ile Asp Lys Ala Lys Phe Glu Lys Gln Asn Leu Val
1070 1075 1080

Gly Leu Gly Lys Thr Lys Phe Ile Lys Lys Tyr Arg Tyr Asp Ile
1085 1090 1095

Leu Gly Asn Lys Tyr Ser Cys Ser Glu Glu Lys Phe Thr Ser Phe
1100 1105 1110

Cys

<210> 344
<211> 1314
<212> PRT
<213> Mycoplasma synoviae

<400> 344

Met Leu Arg Leu Tyr Cys Ala Asn Asn Leu Val Leu Asn Asn Val Gln
1 5 10 15

Asn Leu Trp Lys Tyr Leu Leu Leu Leu Ile Phe Asp Lys Lys Ile Ile
20 25 30

Phe Leu Phe Lys Ile Lys Val Ile Leu Ile Arg Arg Tyr Met Glu Asn
35 40 45

Asn Asn Lys Glu Lys Ile Val Ile Gly Phe Asp Leu Gly Val Ala Ser
50 55 60

Val Gly Trp Ser Ile Val Asn Ala Glu Thr Lys Glu Val Ile Asp Leu
65 70 75 80

Gly Val Arg Leu Phe Ser Glu Pro Glu Lys Ala Asp Tyr Arg Arg Ala
85 90 95

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Lys Arg Thr Thr Arg Arg Leu Leu Arg Arg Lys Lys Phe Lys Arg Glu
            100                 105                 110

Lys Phe His Lys Leu Ile Leu Lys Asn Ala Glu Ile Phe Gly Leu Gln
        115                 120                 125

Ser Arg Asn Glu Ile Leu Asn Val Tyr Lys Asp Gln Ser Ser Lys Tyr
    130                 135                 140

Arg Asn Ile Leu Lys Leu Lys Ile Asn Ala Leu Lys Glu Glu Ile Lys
145                 150                 155                 160

Pro Ser Glu Leu Val Trp Ile Leu Arg Asp Tyr Leu Gln Asn Arg Gly
                165                 170                 175

Tyr Phe Tyr Lys Asn Glu Lys Leu Thr Asp Glu Phe Val Ser Asn Ser
            180                 185                 190

Phe Pro Ser Lys Lys Leu His Glu His Tyr Glu Lys Tyr Gly Phe Phe
        195                 200                 205

Arg Gly Ser Val Lys Leu Asp Asn Lys Leu Asp Asn Lys Lys Asp Lys
    210                 215                 220

Ala Lys Glu Lys Asp Glu Glu Glu Glu Ser Asp Ala Lys Lys Glu Ser
225                 230                 235                 240

Glu Glu Leu Ile Phe Ser Asn Lys Gln Trp Ile Asn Glu Ile Val Lys
                245                 250                 255

Val Phe Glu Asn Gln Ser Tyr Leu Thr Glu Ser Phe Lys Glu Glu Tyr
            260                 265                 270

Leu Lys Leu Phe Asn Tyr Val Arg Pro Phe Asn Lys Gly Pro Gly Ser
        275                 280                 285

Lys Asn Ser Arg Thr Ala Tyr Gly Val Phe Ser Thr Asp Ile Asp Pro
    290                 295                 300

Glu Thr Asn Lys Phe Lys Asp Tyr Ser Asn Ile Trp Asp Lys Thr Ile
305                 310                 315                 320

Gly Lys Cys Ser Leu Phe Glu Glu Glu Ile Arg Ala Pro Lys Asn Leu
                325                 330                 335

Pro Ser Ala Leu Ile Phe Asn Leu Gln Asn Glu Ile Cys Thr Ile Lys
            340                 345                 350

Asn Glu Phe Thr Glu Phe Lys Asn Trp Trp Leu Asn Ala Glu Gln Lys
        355                 360                 365
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Ser Glu Ile Leu Lys Phe Val Phe Thr Glu Leu Phe Asn Trp Lys Asp
    370                 375                 380

Lys Lys Tyr Ser Asp Lys Lys Phe Asn Lys Asn Leu Gln Asp Lys Ile
385                 390                 395                 400

Lys Lys Tyr Leu Leu Asn Phe Ala Leu Glu Asn Phe Asn Leu Asn Glu
                405                 410                 415

Glu Ile Leu Lys Asn Arg Asp Leu Glu Asn Asp Thr Val Leu Gly Leu
            420                 425                 430

Lys Gly Val Lys Tyr Tyr Glu Lys Ser Asn Ala Thr Ala Asp Ala Ala
        435                 440                 445

Leu Glu Phe Ser Ser Leu Lys Pro Leu Tyr Val Phe Ile Lys Phe Leu
    450                 455                 460

Lys Glu Lys Lys Leu Asp Leu Asn Tyr Leu Leu Gly Leu Glu Asn Thr
465                 470                 475                 480

Glu Ile Leu Tyr Phe Leu Asp Ser Ile Tyr Leu Ala Ile Ser Tyr Ser
                485                 490                 495

Ser Asp Leu Lys Glu Arg Asn Glu Trp Phe Lys Lys Leu Leu Lys Glu
            500                 505                 510

Leu Tyr Pro Lys Ile Lys Asn Asn Asn Leu Glu Ile Ile Glu Asn Val
        515                 520                 525

Glu Asp Ile Phe Glu Ile Thr Asp Gln Glu Lys Phe Glu Ser Phe Ser
    530                 535                 540

Lys Thr His Ser Leu Ser Arg Glu Ala Phe Asn His Ile Ile Pro Leu
545                 550                 555                 560

Leu Leu Ser Asn Asn Glu Gly Lys Asn Tyr Glu Ser Leu Lys His Ser
                565                 570                 575

Asn Glu Glu Leu Lys Lys Arg Thr Glu Lys Ala Glu Leu Lys Ala Gln
            580                 585                 590

Gln Asn Gln Lys Tyr Leu Lys Asp Asn Phe Leu Lys Glu Ala Leu Val
        595                 600                 605

Pro Leu Ser Val Lys Thr Ser Val Leu Gln Ala Ile Lys Ile Phe Asn
    610                 615                 620

Gln Ile Ile Lys Asn Phe Gly Lys Lys Tyr Glu Ile Ser Gln Val Val
625                 630                 635                 640
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Ile Glu Met Ala Arg Glu Leu Thr Lys Pro Asn Leu Glu Lys Leu Leu
                645                 650                 655

Asn Asn Ala Thr Asn Ser Asn Ile Lys Ile Leu Lys Glu Lys Leu Asp
            660                 665                 670

Gln Thr Glu Lys Phe Asp Asp Phe Thr Lys Lys Lys Phe Ile Asp Lys
        675                 680                 685

Ile Glu Asn Ser Val Val Phe Arg Asn Lys Leu Phe Leu Trp Phe Glu
    690                 695                 700

Gln Asp Arg Lys Asp Pro Tyr Thr Gln Leu Asp Ile Lys Ile Asn Glu
705                 710                 715                 720

Ile Glu Asp Glu Thr Glu Ile Asp His Val Ile Pro Tyr Ser Lys Ser
                725                 730                 735

Ala Asp Asp Ser Trp Phe Asn Lys Leu Leu Val Lys Lys Ser Thr Asn
            740                 745                 750

Gln Leu Lys Lys Asn Lys Thr Val Trp Glu Tyr Tyr Gln Asn Glu Ser
        755                 760                 765

Asp Pro Glu Ala Lys Trp Asn Lys Phe Val Ala Trp Ala Lys Arg Ile
    770                 775                 780

Tyr Leu Val Gln Lys Ser Asp Lys Glu Ser Lys Asp Asn Ser Glu Lys
785                 790                 795                 800

Asn Ser Ile Phe Lys Asn Lys Lys Pro Asn Leu Lys Phe Lys Asn Ile
                805                 810                 815

Thr Lys Lys Leu Phe Asp Pro Tyr Lys Asp Leu Gly Phe Leu Ala Arg
            820                 825                 830

Asn Leu Asn Asp Thr Arg Tyr Ala Thr Lys Val Phe Arg Asp Gln Leu
        835                 840                 845

Asn Asn Tyr Ser Lys His His Ser Lys Asp Asp Glu Asn Lys Leu Phe
    850                 855                 860

Lys Val Val Cys Met Asn Gly Ser Ile Thr Ser Phe Leu Arg Lys Ser
865                 870                 875                 880

Met Trp Arg Lys Asn Glu Glu Gln Val Tyr Arg Phe Asn Phe Trp Lys
                885                 890                 895

Lys Asp Arg Asp Gln Phe Phe His His Ala Val Asp Ala Ser Ile Ile
            900                 905                 910
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Ala Ile Phe Ser Leu Leu Thr Lys Thr Leu Tyr Asn Lys Leu Arg Val
        915                 920                 925

Tyr Glu Ser Tyr Asp Val Gln Arg Arg Glu Asp Gly Val Tyr Leu Ile
    930                 935                 940

Asn Lys Glu Thr Gly Glu Val Lys Lys Ala Asp Lys Asp Tyr Trp Lys
945                 950                 955                 960

Asp Gln His Asn Phe Leu Lys Ile Arg Glu Asn Ala Ile Glu Ile Lys
                965                 970                 975

Asn Val Leu Asn Asn Val Asp Phe Gln Asn Gln Val Arg Tyr Ser Arg
            980                 985                 990

Lys Ala Asn Thr Lys Leu Asn Thr  Gln Leu Phe Asn Glu  Thr Leu Tyr
        995                 1000                1005

Gly Val  Lys Glu Phe Glu Asn  Asn Phe Tyr Lys Leu  Glu Lys Val
    1010                1015                1020

Asn Leu  Phe Ser Arg Lys Asp  Leu Arg Lys Phe Ile  Leu Glu Asp
    1025                1030                1035

Leu Asn  Glu Glu Ser Glu Lys  Asn Lys Lys Asn Glu  Asn Gly Ser
    1040                1045                1050

Arg Lys  Arg Ile Leu Thr Glu  Lys Tyr Ile Val Asp  Glu Ile Leu
    1055                1060                1065

Gln Ile  Leu Glu Asn Glu Glu  Phe Lys Asp Ser Lys  Ser Asp Ile
    1070                1075                1080

Asn Ala  Leu Asn Lys Tyr Met  Asp Ser Leu Pro Ser  Lys Phe Ser
    1085                1090                1095

Glu Phe  Phe Ser Gln Asp Phe  Ile Asn Lys Cys Lys  Lys Glu Asn
    1100                1105                1110

Ser Leu  Ile Leu Thr Phe Asp  Ala Ile Lys His Asn  Asp Pro Lys
    1115                1120                1125

Lys Val  Ile Lys Ile Lys Asn  Leu Lys Phe Phe Arg  Glu Asp Ala
    1130                1135                1140

Thr Leu  Lys Asn Lys Gln Ala  Val His Lys Asp Ser  Lys Asn Gln
    1145                1150                1155

Ile Lys  Ser Phe Tyr Glu Ser  Tyr Lys Cys Val Gly  Phe Ile Trp
    1160                1165                1170
```

Leu Lys Asn Lys Asn Asp Leu Glu Glu Ser Ile Phe Val Pro Ile
1175 1180 1185

Asn Ser Arg Val Ile His Phe Gly Asp Lys Asp Lys Asp Ile Phe
1190 1195 1200

Asp Phe Asp Ser Tyr Asn Lys Glu Lys Leu Leu Asn Glu Ile Asn
1205 1210 1215

Leu Lys Arg Pro Glu Asn Lys Lys Phe Asn Ser Ile Asn Glu Ile
1220 1225 1230

Glu Phe Val Lys Phe Val Lys Pro Gly Ala Leu Leu Leu Asn Phe
1235 1240 1245

Glu Asn Gln Gln Ile Tyr Tyr Ile Ser Thr Leu Glu Ser Ser Ser
1250 1255 1260

Leu Arg Ala Lys Ile Lys Leu Leu Asn Lys Met Asp Lys Gly Lys
1265 1270 1275

Ala Val Ser Met Lys Lys Ile Thr Asn Pro Asp Glu Tyr Lys Ile
1280 1285 1290

Ile Glu His Val Asn Pro Leu Gly Ile Asn Leu Asn Trp Thr Lys
1295 1300 1305

Lys Leu Glu Asn Asn Asn
1310

<210> 345
<211> 1197
<212> PRT
<213> Porphyromonas sp.

<400> 345

Met Leu Met Ser Lys His Val Leu Gly Leu Asp Leu Gly Val Gly Ser
1 5 10 15

Ile Gly Trp Cys Leu Ile Ala Leu Asp Ala Gln Gly Asp Pro Ala Glu
20 25 30

Ile Leu Gly Met Gly Ser Arg Val Val Pro Leu Asn Asn Ala Thr Lys
35 40 45

Ala Ile Glu Ala Phe Asn Ala Gly Ala Ala Phe Thr Ala Ser Gln Glu
50 55 60

Arg Thr Ala Arg Arg Thr Met Arg Arg Gly Phe Ala Arg Tyr Gln Leu
65 70 75 80

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Arg Arg Tyr Arg Leu Arg Arg Glu Leu Glu Lys Val Gly Met Leu Pro
                85                  90                  95

Asp Ala Ala Leu Ile Gln Leu Pro Leu Leu Glu Leu Trp Glu Leu Arg
            100                 105                 110

Glu Arg Ala Ala Thr Ala Gly Arg Arg Leu Thr Leu Pro Glu Leu Gly
        115                 120                 125

Arg Val Leu Cys His Ile Asn Gln Lys Arg Gly Tyr Arg His Val Lys
    130                 135                 140

Ser Asp Ala Ala Ala Ile Val Gly Asp Glu Gly Glu Lys Lys Lys Asp
145                 150                 155                 160

Ser Asn Ser Ala Tyr Leu Ala Gly Ile Arg Ala Asn Asp Glu Lys Leu
                165                 170                 175

Gln Ala Glu His Lys Thr Val Gly Gln Tyr Phe Ala Glu Gln Leu Arg
            180                 185                 190

Gln Asn Gln Ser Glu Ser Pro Thr Gly Gly Ile Ser Tyr Arg Ile Lys
        195                 200                 205

Asp Gln Ile Phe Ser Arg Gln Cys Tyr Ile Asp Glu Tyr Asp Gln Ile
    210                 215                 220

Met Ala Val Gln Arg Val His Tyr Pro Asp Ile Leu Thr Asp Glu Phe
225                 230                 235                 240

Ile Arg Met Leu Arg Asp Glu Val Ile Phe Met Gln Arg Pro Leu Lys
                245                 250                 255

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

Val Met Arg Val Gln Gln Asp Asp Gly Lys Gly Gly Trp Gln Leu Val
        275                 280                 285

Glu Arg Arg Val Lys Phe Gly Pro Lys Val Ala Pro Lys Ser Ser Pro
    290                 295                 300

Leu Phe Gln Leu Cys Cys Ile Tyr Glu Ala Val Asn Asn Ile Arg Leu
305                 310                 315                 320

Thr Arg Pro Asn Gly Ser Pro Cys Asp Ile Thr Pro Glu Glu Arg Ala
                325                 330                 335

Lys Ile Val Ala His Leu Gln Ser Ser Ala Ser Leu Ser Phe Ala Ala
            340                 345                 350
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Leu Lys Lys Leu Leu Lys Glu Lys Ala Leu Ile Ala Asp Gln Leu Thr
        355                 360                 365

Ser Lys Ser Gly Leu Lys Gly Asn Ser Thr Arg Val Ala Leu Ala Ser
    370                 375                 380

Ala Leu Gln Pro Tyr Pro Gln Tyr His His Leu Leu Asp Met Glu Leu
385                 390                 395                 400

Glu Thr Arg Met Met Thr Val Gln Leu Thr Asp Glu Glu Thr Gly Glu
                405                 410                 415

Val Thr Glu Arg Glu Val Ala Val Val Thr Asp Ser Tyr Val Arg Lys
            420                 425                 430

Pro Leu Tyr Arg Leu Trp His Ile Leu Tyr Ser Ile Glu Glu Arg Glu
        435                 440                 445

Ala Met Arg Arg Ala Leu Ile Thr Gln Leu Gly Met Lys Glu Glu Asp
    450                 455                 460

Leu Asp Gly Gly Leu Leu Asp Gln Leu Tyr Arg Leu Asp Phe Val Lys
465                 470                 475                 480

Pro Gly Tyr Gly Asn Lys Ser Ala Lys Phe Ile Cys Lys Leu Leu Pro
                485                 490                 495

Gln Leu Gln Gln Gly Leu Gly Tyr Ser Glu Ala Cys Ala Ala Val Gly
            500                 505                 510

Tyr Arg His Ser Asn Ser Pro Thr Ser Glu Glu Ile Thr Glu Arg Thr
        515                 520                 525

Leu Leu Glu Lys Ile Pro Leu Leu Gln Arg Asn Glu Leu Arg Gln Pro
    530                 535                 540

Leu Val Glu Lys Ile Leu Asn Gln Met Ile Asn Leu Val Asn Ala Leu
545                 550                 555                 560

Lys Ala Glu Tyr Gly Ile Asp Glu Val Arg Val Glu Leu Ala Arg Glu
                565                 570                 575

Leu Lys Met Ser Arg Glu Glu Arg Glu Arg Met Ala Arg Asn Asn Lys
            580                 585                 590

Asp Arg Glu Glu Arg Asn Lys Gly Val Ala Ala Lys Ile Arg Glu Cys
        595                 600                 605

Gly Leu Tyr Pro Thr Lys Pro Arg Ile Gln Lys Tyr Met Leu Trp Lys
    610                 615                 620
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Glu Ala Gly Arg Gln Cys Leu Tyr Cys Gly Arg Ser Ile Glu Glu Glu
625                 630                 635                 640

Gln Cys Leu Arg Glu Gly Gly Met Glu Val Glu His Ile Ile Pro Lys
                645                 650                 655

Ser Val Leu Tyr Asp Asp Ser Tyr Gly Asn Lys Thr Cys Ala Cys Arg
            660                 665                 670

Arg Cys Asn Lys Glu Lys Gly Asn Arg Thr Ala Leu Glu Tyr Ile Arg
        675                 680                 685

Ala Lys Gly Arg Glu Ala Glu Tyr Met Lys Arg Ile Asn Asp Leu Leu
    690                 695                 700

Lys Glu Lys Lys Ile Ser Tyr Ser Lys His Gln Arg Leu Arg Trp Leu
705                 710                 715                 720

Lys Glu Asp Ile Pro Ser Asp Phe Leu Glu Arg Gln Leu Arg Leu Thr
                725                 730                 735

Gln Tyr Ile Ser Arg Gln Ala Met Ala Ile Leu Gln Gln Gly Ile Arg
            740                 745                 750

Arg Val Ser Ala Ser Glu Gly Gly Val Thr Ala Arg Leu Arg Ser Leu
        755                 760                 765

Trp Gly Tyr Gly Lys Ile Leu His Thr Leu Asn Leu Asp Arg Tyr Asp
    770                 775                 780

Ser Met Gly Glu Thr Glu Arg Val Ser Arg Glu Gly Glu Ala Thr Glu
785                 790                 795                 800

Glu Leu His Ile Thr Asn Trp Ser Lys Arg Met Asp His Arg His His
                805                 810                 815

Ala Ile Asp Ala Leu Val Val Ala Cys Thr Arg Gln Ser Tyr Ile Gln
            820                 825                 830

Arg Leu Asn Arg Leu Ser Ser Glu Phe Gly Arg Glu Asp Lys Lys Lys
        835                 840                 845

Glu Asp Gln Glu Ala Gln Glu Gln Gln Ala Thr Glu Thr Gly Arg Leu
    850                 855                 860

Ser Asn Leu Glu Arg Trp Leu Thr Gln Arg Pro His Phe Ser Val Arg
865                 870                 875                 880

Thr Val Ser Asp Lys Val Ala Glu Ile Leu Ile Ser Tyr Arg Pro Gly
                885                 890                 895
```

```
Gln Arg Val Val Thr Arg Gly Arg Asn Ile Tyr Arg Lys Lys Met Ala
            900                 905                 910

Asp Gly Arg Glu Val Ser Cys Val Gln Arg Gly Val Leu Val Pro Arg
        915                 920                 925

Gly Glu Leu Met Glu Ala Ser Phe Tyr Gly Lys Ile Leu Ser Gln Gly
    930                 935                 940

Arg Val Arg Ile Val Lys Arg Tyr Pro Leu His Asp Leu Lys Gly Glu
945                 950                 955                 960

Val Val Asp Pro His Leu Arg Glu Leu Ile Thr Thr Tyr Asn Gln Glu
                965                 970                 975

Leu Lys Ser Arg Glu Lys Gly Ala Pro Ile Pro Pro Leu Cys Leu Asp
            980                 985                 990

Lys Asp Lys Lys Gln Glu Val Arg  Ser Val Arg Cys Tyr  Ala Lys Thr
        995                 1000                1005

Leu Ser  Leu Asp Lys Ala Ile  Pro Met Cys Phe Asp  Glu Lys Gly
    1010                1015                1020

Glu Pro  Thr Ala Phe Val Lys  Ser Ala Ser Asn His  His Leu Ala
    1025                1030                1035

Leu Tyr  Arg Thr Pro Lys Gly  Lys Leu Val Glu Ser  Ile Val Thr
    1040                1045                1050

Phe Trp  Asp Ala Val Asp Arg  Ala Arg Tyr Gly Ile  Pro Leu Val
    1055                1060                1065

Ile Thr  His Pro Arg Glu Val  Met Glu Gln Val Leu  Gln Arg Gly
    1070                1075                1080

Asp Ile  Pro Glu Gln Val Leu  Ser Leu Leu Pro Pro  Ser Asp Trp
    1085                1090                1095

Val Phe  Val Asp Ser Leu Gln  Gln Asp Glu Met Val  Val Ile Gly
    1100                1105                1110

Leu Ser  Asp Glu Glu Leu Gln  Arg Ala Leu Glu Ala  Gln Asn Tyr
    1115                1120                1125

Arg Lys  Ile Ser Glu His Leu  Tyr Arg Val Gln Lys  Met Ser Ser
    1130                1135                1140

Ser Tyr  Tyr Val Phe Arg Tyr  His Leu Glu Thr Ser  Val Ala Asp
    1145                1150                1155
```

```
Asp Lys  Asn Thr Ser Gly Arg  Ile Pro Lys Phe His  Arg Val Gln
    1160                1165                1170


Ser Leu  Lys Ala Tyr Glu Glu  Arg Asn Ile Arg Lys  Val Arg Val
    1175                1180                1185


Asp Leu  Leu Gly Arg Ile Ser  Leu Leu
    1190                1195


<210>  346
<211>  1121
<212>  PRT
<213>  Streptococcus thermophilus

<400>  346

Met Ser Asp Leu Val Leu Gly Leu Asp Ile Gly Ile Gly Ser Val Gly
1               5                   10                  15


Val Gly Ile Leu Asn Lys Val Thr Gly Glu Ile Ile His Lys Asn Ser
            20                  25                  30


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


Asn Arg Gln Gly Arg Arg Leu Ala Arg Arg Lys Lys His Arg Arg Val
    50                  55                  60


Arg Leu Asn Arg Leu Phe Glu Glu Ser Gly Leu Ile Thr Asp Phe Thr
65                  70                  75                  80


Lys Ile Ser Ile Asn Leu Asn Pro Tyr Gln Leu Arg Val Lys Gly Leu
                85                  90                  95


Thr Asp Glu Leu Ser Asn Glu Glu Leu Phe Ile Ala Leu Lys Asn Met
            100                 105                 110


Val Lys His Arg Gly Ile Ser Tyr Leu Asp Asp Ala Ser Asp Asp Gly
        115                 120                 125


Asn Ser Ser Val Gly Asp Tyr Ala Gln Ile Val Lys Glu Asn Ser Lys
    130                 135                 140


Gln Leu Glu Thr Lys Thr Pro Gly Gln Ile Gln Leu Glu Arg Tyr Gln
145                 150                 155                 160


Thr Tyr Gly Gln Leu Arg Gly Asp Phe Thr Val Glu Lys Asp Gly Lys
                165                 170                 175


Lys His Arg Leu Ile Asn Val Phe Pro Thr Ser Ala Tyr Arg Ser Glu
            180                 185                 190
```

```
Ala Leu Arg Ile Leu Gln Thr Gln Gln Glu Phe Asn Pro Gln Ile Thr
        195                 200                 205

Asp Glu Phe Ile Asn Arg Tyr Leu Glu Ile Leu Thr Gly Lys Arg Lys
    210                 215                 220

Tyr Tyr His Gly Pro Gly Asn Glu Lys Ser Arg Thr Asp Tyr Gly Arg
225                 230                 235                 240

Tyr Arg Thr Ser Gly Glu Thr Leu Asp Asn Ile Phe Gly Ile Leu Ile
                245                 250                 255

Gly Lys Cys Thr Phe Tyr Pro Asp Glu Phe Arg Ala Ala Lys Ala Ser
            260                 265                 270

Tyr Thr Ala Gln Glu Phe Asn Leu Leu Asn Asp Leu Asn Asn Leu Thr
        275                 280                 285

Val Pro Thr Glu Thr Lys Lys Leu Ser Lys Glu Gln Lys Asn Gln Ile
    290                 295                 300

Ile Asn Tyr Val Lys Asn Glu Lys Ala Met Gly Pro Ala Lys Leu Phe
305                 310                 315                 320

Lys Tyr Ile Ala Lys Leu Leu Ser Cys Asp Val Ala Asp Ile Lys Gly
                325                 330                 335

Tyr Arg Ile Asp Lys Ser Gly Lys Ala Glu Ile His Thr Phe Glu Ala
            340                 345                 350

Tyr Arg Lys Met Lys Thr Leu Glu Thr Leu Asp Ile Glu Gln Met Asp
        355                 360                 365

Arg Glu Thr Leu Asp Lys Leu Ala Tyr Val Leu Thr Leu Asn Thr Glu
    370                 375                 380

Arg Glu Gly Ile Gln Glu Ala Leu Glu His Glu Phe Ala Asp Gly Ser
385                 390                 395                 400

Phe Ser Gln Lys Gln Val Asp Glu Leu Val Gln Phe Arg Lys Ala Asn
                405                 410                 415

Ser Ser Ile Phe Gly Lys Gly Trp His Asn Phe Ser Val Lys Leu Met
            420                 425                 430

Met Glu Leu Ile Pro Glu Leu Tyr Glu Thr Ser Glu Glu Gln Met Thr
        435                 440                 445

Ile Leu Thr Arg Leu Gly Lys Gln Lys Thr Thr Ser Ser Ser Asn Lys
    450                 455                 460
```

```
Thr Lys Tyr Ile Asp Glu Lys Leu Leu Thr Glu Glu Ile Tyr Asn Pro
465                 470                 475                 480

Val Val Ala Lys Ser Val Arg Gln Ala Ile Lys Ile Val Asn Ala Ala
                485                 490                 495

Ile Lys Glu Tyr Gly Asp Phe Asp Asn Ile Val Ile Glu Met Ala Arg
            500                 505                 510

Glu Thr Asn Glu Asp Asp Glu Lys Lys Ala Ile Gln Lys Ile Gln Lys
        515                 520                 525

Ala Asn Lys Asp Glu Lys Asp Ala Ala Met Leu Lys Ala Ala Asn Gln
    530                 535                 540

Tyr Asn Gly Lys Ala Glu Leu Pro His Ser Val Phe His Gly His Lys
545                 550                 555                 560

Gln Leu Ala Thr Lys Ile Arg Leu Trp His Gln Gln Gly Glu Arg Cys
                565                 570                 575

Leu Tyr Thr Gly Lys Thr Ile Ser Ile His Asp Leu Ile Asn Asn Ser
            580                 585                 590

Asn Gln Phe Glu Val Asp His Ile Leu Pro Leu Ser Ile Thr Phe Asp
        595                 600                 605

Asp Ser Leu Ala Asn Lys Val Leu Val Tyr Ala Thr Ala Asn Gln Glu
    610                 615                 620

Lys Gly Gln Arg Thr Pro Tyr Gln Ala Leu Asp Ser Met Asp Asp Ala
625                 630                 635                 640

Trp Ser Phe Arg Glu Leu Lys Ala Phe Val Arg Glu Ser Lys Thr Leu
                645                 650                 655

Ser Asn Lys Lys Lys Glu Tyr Leu Leu Thr Glu Glu Asp Ile Ser Lys
            660                 665                 670

Phe Asp Val Arg Lys Lys Phe Ile Glu Arg Asn Leu Val Asp Thr Arg
        675                 680                 685

Tyr Ala Ser Arg Val Val Leu Asn Ala Leu Gln Glu His Phe Arg Ala
    690                 695                 700

His Lys Ile Asp Thr Lys Val Ser Val Val Arg Gly Gln Phe Thr Ser
705                 710                 715                 720

Gln Leu Arg Arg His Trp Gly Ile Glu Lys Thr Arg Asp Thr Tyr His
                725                 730                 735
```

```
His His Ala Val Asp Ala Leu Ile Ile Ala Ala Ser Ser Gln Leu Asn
            740                 745                 750

Leu Trp Lys Lys Gln Lys Asn Thr Leu Val Ser Tyr Ser Glu Asp Gln
        755                 760                 765

Leu Leu Asp Ile Glu Thr Gly Glu Leu Ile Ser Asp Asp Glu Tyr Lys
    770                 775                 780

Glu Ser Val Phe Lys Ala Pro Tyr Gln His Phe Val Asp Thr Leu Lys
785                 790                 795                 800

Ser Lys Glu Phe Glu Asp Ser Ile Leu Phe Ser Tyr Gln Val Asp Ser
                805                 810                 815

Lys Phe Asn Arg Lys Ile Ser Asp Ala Thr Ile Tyr Ala Thr Arg Gln
            820                 825                 830

Ala Lys Val Gly Lys Asp Lys Ala Asp Glu Thr Tyr Val Leu Gly Lys
        835                 840                 845

Ile Lys Asp Ile Tyr Thr Gln Asp Gly Tyr Asp Ala Phe Met Lys Ile
    850                 855                 860

Tyr Lys Lys Asp Lys Ser Lys Phe Leu Met Tyr Arg His Asp Pro Gln
865                 870                 875                 880

Thr Phe Glu Lys Val Ile Glu Pro Ile Leu Glu Asn Tyr Pro Asn Lys
                885                 890                 895

Gln Ile Asn Glu Lys Gly Lys Glu Val Pro Cys Asn Pro Phe Leu Lys
            900                 905                 910

Tyr Lys Glu Glu His Gly Tyr Ile Arg Lys Tyr Ser Lys Lys Gly Asn
        915                 920                 925

Gly Pro Glu Ile Lys Ser Leu Lys Tyr Tyr Asp Ser Lys Leu Gly Asn
    930                 935                 940

His Ile Asp Ile Thr Pro Lys Asp Ser Asn Asn Lys Val Val Leu Gln
945                 950                 955                 960

Ser Val Ser Pro Trp Arg Ala Asp Val Tyr Phe Asn Lys Thr Thr Gly
                965                 970                 975

Lys Tyr Glu Ile Leu Gly Leu Lys Tyr Ala Asp Leu Gln Phe Glu Lys
            980                 985                 990

Gly Thr Gly Thr Tyr Lys Ile Ser  Gln Glu Lys Tyr Asn  Asp Ile Lys
        995                 1000                1005
```

Lys Lys Glu Gly Val Asp Ser Asp Ser Glu Phe Lys Phe Thr Leu
1010 1015 1020

Tyr Lys Asn Asp Leu Leu Leu Val Lys Asp Thr Glu Thr Lys Glu
1025 1030 1035

Gln Gln Leu Phe Arg Phe Leu Ser Arg Thr Met Pro Lys Gln Lys
1040 1045 1050

His Tyr Val Glu Leu Lys Pro Tyr Asp Lys Gln Lys Phe Glu Gly
1055 1060 1065

Gly Glu Ala Leu Ile Lys Val Leu Gly Asn Val Ala Asn Ser Gly
1070 1075 1080

Gln Cys Lys Lys Gly Leu Gly Lys Ser Asn Ile Ser Ile Tyr Lys
1085 1090 1095

Val Arg Thr Asp Val Leu Gly Asn Gln His Ile Ile Lys Asn Glu
1100 1105 1110

Gly Asp Lys Pro Lys Leu Asp Phe
1115 1120

<210> 347
<211> 1152
<212> PRT
<213> Roseburia inulinivorans

<400> 347

Met Asn Ala Glu His Gly Lys Glu Gly Leu Leu Ile Met Glu Glu Asn
1 5 10 15

Phe Gln Tyr Arg Ile Gly Leu Asp Ile Gly Ile Thr Ser Val Gly Trp
20 25 30

Ala Val Leu Gln Asn Asn Ser Gln Asp Glu Pro Val Arg Ile Thr Asp
35 40 45

Leu Gly Val Arg Ile Phe Asp Val Ala Glu Asn Pro Lys Asn Gly Asp
50 55 60

Ala Leu Ala Ala Pro Arg Arg Asp Ala Arg Thr Thr Arg Arg Arg Leu
65 70 75 80

Arg Arg Arg Arg His Arg Leu Glu Arg Ile Lys Phe Leu Leu Gln Glu
85 90 95

Asn Gly Leu Ile Glu Met Asp Ser Phe Met Glu Arg Tyr Tyr Lys Gly
100 105 110

Asn Leu Pro Asp Val Tyr Gln Leu Arg Tyr Glu Gly Leu Asp Arg Lys

```
        115                 120                 125

Leu Lys Asp Glu Glu Leu Ala Gln Val Leu Ile His Ile Ala Lys His
    130                 135                 140

Arg Gly Phe Arg Ser Thr Arg Lys Ala Glu Thr Lys Glu Lys Glu Gly
145                 150                 155                 160

Gly Ala Val Leu Lys Ala Thr Thr Glu Asn Gln Lys Ile Met Gln Glu
                165                 170                 175

Lys Gly Tyr Arg Thr Val Gly Glu Met Leu Tyr Leu Asp Glu Ala Phe
            180                 185                 190

His Thr Glu Cys Leu Trp Asn Glu Lys Gly Tyr Val Leu Thr Pro Arg
        195                 200                 205

Asn Arg Pro Asp Asp Tyr Lys His Thr Ile Leu Arg Ser Met Leu Val
    210                 215                 220

Glu Glu Val His Ala Ile Phe Ala Ala Gln Arg Ala His Gly Asn Gln
225                 230                 235                 240

Lys Ala Thr Glu Gly Leu Glu Glu Ala Tyr Val Glu Ile Met Thr Ser
                245                 250                 255

Gln Arg Ser Phe Asp Met Gly Pro Gly Leu Gln Pro Asp Gly Lys Pro
            260                 265                 270

Ser Pro Tyr Ala Met Glu Gly Phe Gly Asp Arg Val Gly Lys Cys Thr
        275                 280                 285

Phe Glu Lys Asp Glu Tyr Arg Ala Pro Lys Ala Thr Tyr Thr Ala Glu
    290                 295                 300

Leu Phe Val Ala Leu Gln Lys Ile Asn His Thr Lys Leu Ile Asp Glu
305                 310                 315                 320

Phe Gly Thr Gly Arg Phe Phe Ser Glu Glu Glu Arg Lys Thr Ile Ile
                325                 330                 335

Gly Leu Leu Leu Ser Ser Lys Glu Leu Lys Tyr Gly Thr Ile Arg Lys
            340                 345                 350

Lys Leu Asn Ile Asp Pro Ser Leu Lys Phe Asn Ser Leu Asn Tyr Ser
        355                 360                 365

Ala Lys Lys Glu Gly Glu Thr Glu Glu Glu Arg Val Leu Asp Thr Glu
    370                 375                 380

Lys Ala Lys Phe Ala Ser Met Phe Trp Thr Tyr Glu Tyr Ser Lys Cys
```

385 390 395 400

Leu Lys Asp Arg Thr Glu Glu Met Pro Val Gly Glu Lys Ala Asp Leu
405 410 415

Phe Asp Arg Ile Gly Glu Ile Leu Thr Ala Tyr Lys Asn Asp Asp Ser
420 425 430

Arg Ser Ser Arg Leu Lys Glu Leu Gly Leu Ser Gly Glu Glu Ile Asp
435 440 445

Gly Leu Leu Asp Leu Ser Pro Ala Lys Tyr Gln Arg Val Ser Leu Lys
450 455 460

Ala Met Arg Lys Met Gln Pro Tyr Leu Glu Asp Gly Leu Ile Tyr Asp
465 470 475 480

Lys Ala Cys Glu Ala Ala Gly Tyr Asp Phe Arg Ala Leu Asn Asp Gly
485 490 495

Asn Lys Lys His Leu Leu Lys Gly Glu Glu Ile Asn Ala Ile Val Asn
500 505 510

Asp Ile Thr Asn Pro Val Val Lys Arg Ser Val Ser Gln Thr Ile Lys
515 520 525

Val Ile Asn Ala Ile Ile Gln Lys Tyr Gly Ser Pro Gln Ala Val Asn
530 535 540

Ile Glu Leu Ala Arg Glu Met Ser Lys Asn Phe Gln Asp Arg Thr Asn
545 550 555 560

Leu Glu Lys Glu Met Lys Lys Arg Gln Gln Glu Asn Glu Arg Ala Lys
565 570 575

Gln Gln Ile Ile Glu Leu Gly Lys Gln Asn Pro Thr Gly Gln Asp Ile
580 585 590

Leu Lys Tyr Arg Leu Trp Asn Asp Gln Gly Gly Tyr Cys Leu Tyr Ser
595 600 605

Gly Lys Lys Ile Pro Leu Glu Glu Leu Phe Asp Gly Gly Tyr Asp Ile
610 615 620

Asp His Ile Leu Pro Tyr Ser Ile Thr Phe Asp Asp Ser Tyr Arg Asn
625 630 635 640

Lys Val Leu Val Thr Ala Gln Glu Asn Arg Gln Lys Gly Asn Arg Thr
645 650 655

Pro Tyr Glu Tyr Phe Gly Ala Asp Glu Lys Arg Trp Glu Asp Tyr Glu

660 665 670

Ala Ser Val Arg Leu Leu Val Arg Asp Tyr Lys Lys Gln Gln Lys Leu
675 680 685

Leu Lys Lys Asn Phe Thr Glu Glu Glu Arg Lys Glu Phe Lys Glu Arg
690 695 700

Asn Leu Asn Asp Thr Lys Tyr Ile Thr Arg Val Val Tyr Asn Met Ile
705 710 715 720

Arg Gln Asn Leu Glu Leu Glu Pro Phe Asn His Pro Glu Lys Lys Lys
725 730 735

Gln Val Trp Ala Val Asn Gly Ala Val Thr Ser Tyr Leu Arg Lys Arg
740 745 750

Trp Gly Leu Met Gln Lys Asp Arg Ser Thr Asp Arg His His Ala Met
755 760 765

Asp Ala Val Val Ile Ala Cys Cys Thr Asp Gly Met Ile His Lys Ile
770 775 780

Ser Arg Tyr Met Gln Gly Arg Glu Leu Ala Tyr Ser Arg Asn Phe Lys
785 790 795 800

Phe Pro Asp Glu Glu Thr Gly Glu Ile Leu Asn Arg Asp Asn Phe Thr
805 810 815

Arg Glu Gln Trp Asp Glu Lys Phe Gly Val Lys Val Pro Leu Pro Trp
820 825 830

Asn Ser Phe Arg Asp Glu Leu Asp Ile Arg Leu Leu Asn Glu Asp Pro
835 840 845

Lys Asn Phe Leu Leu Thr His Ala Asp Val Gln Arg Glu Leu Asp Tyr
850 855 860

Pro Gly Trp Met Tyr Gly Glu Glu Glu Ser Pro Ile Glu Glu Gly Arg
865 870 875 880

Tyr Ile Asn Tyr Ile Arg Pro Leu Phe Val Ser Arg Met Pro Asn His
885 890 895

Lys Val Thr Gly Ser Ala His Asp Ala Thr Ile Arg Ser Ala Arg Asp
900 905 910

Tyr Glu Thr Arg Gly Val Val Ile Thr Lys Val Pro Leu Thr Asp Leu
915 920 925

Lys Leu Asn Lys Asp Asn Glu Ile Glu Gly Tyr Tyr Asp Lys Asp Ser

930 935 940

Asp Arg Leu Leu Tyr Gln Ala Leu Val Arg Gln Leu Leu Leu His Gly
945 950 955 960

Asn Asp Gly Lys Lys Ala Phe Ala Glu Asp Phe His Lys Pro Lys Ala
965 970 975

Asp Gly Thr Glu Gly Pro Val Val Arg Lys Val Lys Ile Glu Lys Lys
980 985 990

Gln Thr Ser Gly Val Met Val Arg Gly Gly Thr Gly Ile Ala Ala Asn
995 1000 1005

Gly Glu Met Val Arg Ile Asp Val Phe Arg Glu Asn Gly Lys Tyr
1010 1015 1020

Tyr Phe Val Pro Val Tyr Thr Ala Asp Val Val Arg Lys Val Leu
1025 1030 1035

Pro Asn Arg Ala Ala Thr His Thr Lys Pro Tyr Ser Glu Trp Arg
1040 1045 1050

Val Met Asp Asp Ala Asn Phe Val Phe Ser Leu Tyr Ser Arg Asp
1055 1060 1065

Leu Ile His Val Lys Ser Lys Lys Asp Ile Lys Thr Asn Leu Val
1070 1075 1080

Asn Gly Gly Leu Leu Leu Gln Lys Glu Ile Phe Ala Tyr Tyr Thr
1085 1090 1095

Gly Ala Asp Ile Ala Thr Ala Ser Ile Ala Gly Phe Ala Asn Asp
1100 1105 1110

Ser Asn Phe Lys Phe Arg Gly Leu Gly Ile Gln Ser Leu Glu Ile
1115 1120 1125

Phe Glu Lys Cys Gln Val Asp Ile Leu Gly Asn Ile Ser Val Val
1130 1135 1140

Arg His Glu Asn Arg Gln Glu Phe His
1145 1150

<210> 348
<211> 1082
<212> PRT
<213> Methylosinus trichosporium

<400> 348

Met Arg Val Leu Gly Leu Asp Ala Gly Ile Ala Ser Leu Gly Trp Ala
1 5 10 15

```
Leu Ile Glu Ile Glu Glu Ser Asn Arg Gly Glu Leu Ser Gln Gly Thr
            20                  25                  30

Ile Ile Gly Ala Gly Thr Trp Met Phe Asp Ala Pro Glu Glu Lys Thr
        35                  40                  45

Gln Ala Gly Ala Lys Leu Lys Ser Glu Gln Arg Arg Thr Phe Arg Gly
    50                  55                  60

Gln Arg Arg Val Val Arg Arg Arg Arg Gln Arg Met Asn Glu Val Arg
65                  70                  75                  80

Arg Ile Leu His Ser His Gly Leu Leu Pro Ser Ser Asp Arg Asp Ala
                85                  90                  95

Leu Lys Gln Pro Gly Leu Asp Pro Trp Arg Ile Arg Ala Glu Ala Leu
            100                 105                 110

Asp Arg Leu Leu Gly Pro Val Glu Leu Ala Val Ala Leu Gly His Ile
        115                 120                 125

Ala Arg His Arg Gly Phe Lys Ser Asn Ser Lys Gly Ala Lys Thr Asn
    130                 135                 140

Asp Pro Ala Asp Asp Thr Ser Lys Met Lys Arg Ala Val Asn Glu Thr
145                 150                 155                 160

Arg Glu Lys Leu Ala Arg Phe Gly Ser Ala Ala Lys Met Leu Val Glu
                165                 170                 175

Asp Glu Ser Phe Val Leu Arg Gln Thr Pro Thr Lys Asn Gly Ala Ser
            180                 185                 190

Glu Ile Val Arg Arg Phe Arg Asn Arg Glu Gly Asp Tyr Ser Arg Ser
        195                 200                 205

Leu Leu Arg Asp Asp Leu Ala Ala Glu Met Arg Ala Leu Phe Thr Ala
    210                 215                 220

Gln Ala Arg Phe Gln Ser Ala Ile Ala Thr Ala Asp Leu Gln Thr Ala
225                 230                 235                 240

Phe Thr Lys Ala Ala Phe Phe Gln Arg Pro Leu Gln Asp Ser Glu Lys
                245                 250                 255

Leu Val Gly Pro Cys Pro Phe Glu Val Asp Glu Lys Arg Ala Pro Lys
            260                 265                 270

Arg Gly Tyr Ser Phe Glu Leu Phe Arg Phe Leu Ser Arg Leu Asn His
        275                 280                 285
```

```
Val Thr Leu Arg Asp Gly Lys Gln Glu Arg Thr Leu Thr Arg Asp Glu
    290                 295                 300

Leu Ala Leu Ala Ala Ala Asp Phe Gly Ala Ala Ala Lys Val Ser Phe
305                 310                 315                 320

Thr Ala Leu Arg Lys Lys Leu Lys Leu Pro Glu Thr Thr Val Phe Val
                325                 330                 335

Gly Val Lys Ala Asp Glu Glu Ser Lys Leu Asp Val Val Ala Arg Ser
            340                 345                 350

Gly Lys Ala Ala Glu Gly Thr Ala Arg Leu Arg Ser Val Ile Val Asp
        355                 360                 365

Ala Leu Gly Glu Leu Ala Trp Gly Ala Leu Leu Cys Ser Pro Glu Lys
    370                 375                 380

Leu Asp Lys Ile Ala Glu Val Ile Ser Phe Arg Ser Asp Ile Gly Arg
385                 390                 395                 400

Ile Ser Glu Gly Leu Ala Gln Ala Gly Cys Asn Ala Pro Leu Val Asp
                405                 410                 415

Ala Leu Thr Ala Ala Ala Ser Asp Gly Arg Phe Asp Pro Phe Thr Gly
            420                 425                 430

Ala Gly His Ile Ser Ser Lys Ala Ala Arg Asn Ile Leu Ser Gly Leu
        435                 440                 445

Arg Gln Gly Met Thr Tyr Asp Lys Ala Cys Cys Ala Ala Asp Tyr Asp
    450                 455                 460

His Thr Ala Ser Arg Glu Arg Gly Ala Phe Asp Val Gly Gly His Gly
465                 470                 475                 480

Arg Glu Ala Leu Lys Arg Ile Leu Gln Glu Glu Arg Ile Ser Arg Glu
                485                 490                 495

Leu Val Gly Ser Pro Thr Ala Arg Lys Ala Leu Ile Glu Ser Ile Lys
            500                 505                 510

Gln Val Lys Ala Ile Val Glu Arg Tyr Gly Val Pro Asp Arg Ile His
        515                 520                 525

Val Glu Leu Ala Arg Asp Val Gly Lys Ser Ile Glu Glu Arg Glu Glu
    530                 535                 540

Ile Thr Arg Gly Ile Glu Lys Arg Asn Arg Gln Lys Asp Lys Leu Arg
545                 550                 555                 560
```

```
Gly Leu Phe Glu Lys Glu Val Gly Arg Pro Pro Gln Asp Gly Ala Arg
                565                 570                 575

Gly Lys Glu Glu Leu Leu Arg Phe Glu Leu Trp Ser Glu Gln Met Gly
            580                 585                 590

Arg Cys Leu Tyr Thr Asp Asp Tyr Ile Ser Pro Ser Gln Leu Val Ala
        595                 600                 605

Thr Asp Asp Ala Val Gln Val Asp His Ile Leu Pro Trp Ser Arg Phe
    610                 615                 620

Ala Asp Asp Ser Tyr Ala Asn Lys Thr Leu Cys Met Ala Lys Ala Asn
625                 630                 635                 640

Gln Asp Lys Lys Gly Arg Thr Pro Tyr Glu Trp Phe Lys Ala Glu Lys
                645                 650                 655

Thr Asp Thr Glu Trp Asp Ala Phe Ile Val Arg Val Glu Ala Leu Ala
            660                 665                 670

Asp Met Lys Gly Phe Lys Lys Arg Asn Tyr Lys Leu Arg Asn Ala Glu
        675                 680                 685

Glu Ala Ala Ala Lys Phe Arg Asn Arg Asn Leu Asn Asp Thr Arg Trp
    690                 695                 700

Ala Cys Arg Leu Leu Ala Glu Ala Leu Lys Gln Leu Tyr Pro Lys Gly
705                 710                 715                 720

Glu Lys Asp Lys Asp Gly Lys Glu Arg Arg Arg Val Phe Ser Arg Pro
                725                 730                 735

Gly Ala Leu Thr Asp Arg Leu Arg Arg Ala Trp Gly Leu Gln Trp Met
            740                 745                 750

Lys Lys Ser Thr Lys Gly Asp Arg Ile Pro Asp Asp Arg His His Ala
        755                 760                 765

Leu Asp Ala Ile Val Ile Ala Ala Thr Thr Glu Ser Leu Leu Gln Arg
    770                 775                 780

Ala Thr Arg Glu Val Gln Glu Ile Glu Asp Lys Gly Leu His Tyr Asp
785                 790                 795                 800

Leu Val Lys Asn Val Thr Pro Pro Trp Pro Gly Phe Arg Glu Gln Ala
                805                 810                 815

Val Glu Ala Val Glu Lys Val Phe Val Ala Arg Ala Glu Arg Arg Arg
            820                 825                 830
```

```
Ala Arg Gly Lys Ala His Asp Ala Thr Ile Arg His Ile Ala Val Arg
        835                 840                 845

Glu Gly Glu Gln Arg Val Tyr Glu Arg Arg Lys Val Ala Glu Leu Lys
    850                 855                 860

Leu Ala Asp Leu Asp Arg Val Lys Asp Ala Glu Arg Asn Ala Arg Leu
865                 870                 875                 880

Ile Glu Lys Leu Arg Asn Trp Ile Glu Ala Gly Ser Pro Lys Asp Asp
                885                 890                 895

Pro Pro Leu Ser Pro Lys Gly Asp Pro Ile Phe Lys Val Arg Leu Val
            900                 905                 910

Thr Lys Ser Lys Val Asn Ile Ala Leu Asp Thr Gly Asn Pro Lys Arg
        915                 920                 925

Pro Gly Thr Val Asp Arg Gly Glu Met Ala Arg Val Asp Val Phe Arg
    930                 935                 940

Lys Ala Ser Lys Lys Gly Lys Tyr Glu Tyr Tyr Leu Val Pro Ile Tyr
945                 950                 955                 960

Pro His Asp Ile Ala Thr Met Lys Thr Pro Pro Ile Arg Ala Val Gln
                965                 970                 975

Ala Tyr Lys Pro Glu Asp Glu Trp Pro Glu Met Asp Ser Ser Tyr Glu
            980                 985                 990

Phe Cys Trp Ser Leu Val Pro Met  Thr Tyr Leu Gln Val  Ile Ser Ser
        995                 1000                1005

Lys Gly  Glu Ile Phe Glu Gly  Tyr Tyr Arg Gly Met  Asn Arg Ser
    1010                1015                1020

Val Gly  Ala Ile Gln Leu Ser  Ala His Ser Asn Ser  Ser Asp Val
    1025                1030                1035

Val Gln  Gly Ile Gly Ala Arg  Thr Leu Thr Glu Phe  Lys Lys Phe
    1040                1045                1050

Asn Val  Asp Arg Phe Gly Arg  Lys His Glu Val Glu  Arg Glu Leu
    1055                1060                1065

Arg Thr  Trp Arg Gly Glu Thr  Trp Arg Gly Lys Ala  Tyr Ile
    1070                1075                1080
```

<210> 349
<211> 1156

<212> PRT
<213> Ruminococcus albus

<400> 349

```
Met Gly Asn Tyr Tyr Leu Gly Leu Asp Val Gly Ile Gly Ser Ile Gly
1               5                  10                  15

Trp Ala Val Ile Asn Ile Glu Lys Lys Arg Ile Glu Asp Phe Asn Val
            20                  25                  30

Arg Ile Phe Lys Ser Gly Glu Ile Gln Glu Lys Asn Arg Asn Ser Arg
        35                  40                  45

Ala Ser Gln Gln Cys Arg Arg Ser Arg Gly Leu Arg Arg Leu Tyr Arg
    50                  55                  60

Arg Lys Ser His Arg Lys Leu Arg Leu Lys Asn Tyr Leu Ser Ile Ile
65                  70                  75                  80

Gly Leu Thr Thr Ser Glu Lys Ile Asp Tyr Tyr Tyr Glu Thr Ala Asp
                85                  90                  95

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

Pro Glu Glu Ile Ala Ala Cys Leu Ile His Ile Cys Asn Asn Arg Gly
        115                 120                 125

Tyr Lys Asp Phe Tyr Glu Val Asn Val Glu Asp Ile Glu Asp Pro Asp
    130                 135                 140

Glu Arg Asn Glu Tyr Lys Glu Glu His Asp Ser Ile Val Leu Ile Ser
145                 150                 155                 160

Asn Leu Met Asn Glu Gly Gly Tyr Cys Thr Pro Ala Glu Met Ile Cys
                165                 170                 175

Asn Cys Arg Glu Phe Asp Glu Pro Asn Ser Val Tyr Arg Lys Phe His
            180                 185                 190

Asn Ser Ala Ala Ser Lys Asn His Tyr Leu Ile Thr Arg His Met Leu
        195                 200                 205

Val Lys Glu Val Asp Leu Ile Leu Glu Asn Gln Ser Lys Tyr Tyr Gly
    210                 215                 220

Ile Leu Asp Asp Lys Thr Ile Ala Lys Ile Lys Asp Ile Ile Phe Ala
225                 230                 235                 240

Gln Arg Asp Phe Glu Ile Gly Pro Gly Lys Asn Glu Arg Phe Arg Arg
                245                 250                 255
```

```
Phe Thr Gly Tyr Leu Asp Ser Ile Gly Lys Cys Gln Phe Phe Lys Asp
            260                 265                 270

Gln Glu Arg Gly Ser Arg Phe Thr Val Ile Ala Asp Ile Tyr Ala Phe
        275                 280                 285

Val Asn Val Leu Ser Gln Tyr Thr Tyr Thr Asn Asn Arg Gly Glu Ser
    290                 295                 300

Val Phe Asp Thr Ser Phe Ala Asn Asp Leu Ile Asn Ser Ala Leu Lys
305                 310                 315                 320

Asn Gly Ser Met Asp Lys Arg Glu Leu Lys Ala Ile Ala Lys Ser Tyr
                325                 330                 335

His Ile Asp Ile Ser Asp Lys Asn Ser Asp Thr Ser Leu Thr Lys Cys
            340                 345                 350

Phe Lys Tyr Ile Lys Val Val Lys Pro Leu Phe Glu Lys Tyr Gly Tyr
        355                 360                 365

Asp Trp Asp Lys Leu Ile Glu Asn Tyr Thr Asp Thr Asp Asn Asn Val
    370                 375                 380

Leu Asn Arg Ile Gly Ile Val Leu Ser Gln Ala Gln Thr Pro Lys Arg
385                 390                 395                 400

Arg Arg Glu Lys Leu Lys Ala Leu Asn Ile Gly Leu Asp Asp Gly Leu
                405                 410                 415

Ile Asn Glu Leu Thr Lys Leu Lys Leu Ser Gly Thr Ala Asn Val Ser
            420                 425                 430

Tyr Lys Tyr Met Gln Gly Ser Ile Glu Ala Phe Cys Glu Gly Asp Leu
        435                 440                 445

Tyr Gly Lys Tyr Gln Ala Lys Phe Asn Lys Glu Ile Pro Asp Ile Asp
    450                 455                 460

Glu Asn Ala Lys Pro Gln Lys Leu Pro Pro Phe Lys Asn Glu Asp Asp
465                 470                 475                 480

Cys Glu Phe Phe Lys Asn Pro Val Val Phe Arg Ser Ile Asn Glu Thr
                485                 490                 495

Arg Lys Leu Ile Asn Ala Ile Ile Asp Lys Tyr Gly Tyr Pro Ala Ala
            500                 505                 510

Val Asn Ile Glu Thr Ala Asp Glu Leu Asn Lys Thr Phe Glu Asp Arg
        515                 520                 525
```

```
Ala Ile Asp Thr Lys Arg Asn Asn Asp Asn Gln Lys Glu Asn Asp Arg
    530                 535                 540

Ile Val Lys Glu Ile Ile Glu Cys Ile Lys Cys Asp Glu Val His Ala
545                 550                 555                 560

Arg His Leu Ile Glu Lys Tyr Lys Leu Trp Glu Ala Gln Glu Gly Lys
                565                 570                 575

Cys Leu Tyr Ser Gly Glu Thr Ile Thr Lys Glu Asp Met Leu Arg Asp
            580                 585                 590

Lys Asp Lys Leu Phe Glu Val Asp His Ile Val Pro Tyr Ser Leu Ile
        595                 600                 605

Leu Asp Asn Thr Ile Asn Asn Lys Ala Leu Val Tyr Ala Glu Glu Asn
    610                 615                 620

Gln Lys Lys Gly Gln Arg Thr Pro Leu Met Tyr Met Asn Glu Ala Gln
625                 630                 635                 640

Ala Ala Asp Tyr Arg Val Arg Val Asn Thr Met Phe Lys Ser Lys Lys
                645                 650                 655

Cys Ser Lys Lys Lys Tyr Gln Tyr Leu Met Leu Pro Asp Leu Asn Asp
            660                 665                 670

Gln Glu Leu Leu Gly Gly Trp Arg Ser Arg Asn Leu Asn Asp Thr Arg
        675                 680                 685

Tyr Ile Cys Lys Tyr Leu Val Asn Tyr Leu Arg Lys Asn Leu Arg Phe
    690                 695                 700

Asp Arg Ser Tyr Glu Ser Ser Asp Glu Asp Asp Leu Lys Ile Arg Asp
705                 710                 715                 720

His Tyr Arg Val Phe Pro Val Lys Ser Arg Phe Thr Ser Met Phe Arg
                725                 730                 735

Arg Trp Trp Leu Asn Glu Lys Thr Trp Gly Arg Tyr Asp Lys Ala Glu
            740                 745                 750

Leu Lys Lys Leu Thr Tyr Leu Asp His Ala Ala Asp Ala Ile Ile Ile
        755                 760                 765

Ala Asn Cys Arg Pro Glu Tyr Val Val Leu Ala Gly Glu Lys Leu Lys
    770                 775                 780

Leu Asn Lys Met Tyr His Gln Ala Gly Lys Arg Ile Thr Pro Glu Tyr
785                 790                 795                 800
```

```
Glu Gln Ser Lys Lys Ala Cys Ile Asp Asn Leu Tyr Lys Leu Phe Arg
                805                 810                 815

Met Asp Arg Arg Thr Ala Glu Lys Leu Leu Ser Gly His Gly Arg Leu
            820                 825                 830

Thr Pro Ile Ile Pro Asn Leu Ser Glu Glu Val Asp Lys Arg Leu Trp
        835                 840                 845

Asp Lys Asn Ile Tyr Glu Gln Phe Trp Lys Asp Asp Lys Asp Lys Lys
    850                 855                 860

Ser Cys Glu Glu Leu Tyr Arg Glu Asn Val Ala Ser Leu Tyr Lys Gly
865                 870                 875                 880

Asp Pro Lys Phe Ala Ser Ser Leu Ser Met Pro Val Ile Ser Leu Lys
                885                 890                 895

Pro Asp His Lys Tyr Arg Gly Thr Ile Thr Gly Glu Glu Ala Ile Arg
            900                 905                 910

Val Lys Glu Ile Asp Gly Lys Leu Ile Lys Leu Lys Arg Lys Ser Ile
        915                 920                 925

Ser Glu Ile Thr Ala Glu Ser Ile Asn Ser Ile Tyr Thr Asp Asp Lys
    930                 935                 940

Ile Leu Ile Asp Ser Leu Lys Thr Ile Phe Glu Gln Ala Asp Tyr Lys
945                 950                 955                 960

Asp Val Gly Asp Tyr Leu Lys Lys Thr Asn Gln His Phe Phe Thr Thr
                965                 970                 975

Ser Ser Gly Lys Arg Val Asn Lys Val Thr Val Ile Glu Lys Val Pro
            980                 985                 990

Ser Arg Trp Leu Arg Lys Glu Ile  Asp Asp Asn Asn Phe  Ser Leu Leu
        995                 1000                1005

Asn Asp  Ser Ser Tyr Tyr Cys  Ile Glu Leu Tyr Lys  Asp Ser Lys
    1010                1015                1020

Gly Asp  Asn Asn Leu Gln Gly  Ile Ala Met Ser Asp  Ile Val His
    1025                1030                1035

Asp Arg  Lys Thr Lys Lys Leu  Tyr Leu Lys Pro Asp  Phe Asn Tyr
    1040                1045                1050

Pro Asp  Asp Tyr Tyr Thr His  Val Met Tyr Ile Phe  Pro Gly Asp
    1055                1060                1065
```

```
Tyr Leu  Arg Ile Lys Ser Thr  Ser Lys Lys Ser Gly  Glu Gln Leu
    1070                1075                1080

Lys Phe  Glu Gly Tyr Phe Ile  Ser Val Lys Asn Val  Asn Glu Asn
    1085                1090                1095

Ser Phe  Arg Phe Ile Ser Asp  Asn Lys Pro Cys Ala  Lys Asp Lys
    1100                1105                1110

Arg Val  Ser Ile Thr Lys Lys  Asp Ile Val Ile Lys  Leu Ala Val
    1115                1120                1125

Asp Leu  Met Gly Lys Val Gln  Gly Glu Asn Asn Gly  Lys Gly Ile
    1130                1135                1140

Ser Cys  Gly Glu Pro Leu Ser  Leu Leu Lys Glu Lys  Asn
    1145                1150                1155
```

<210> 350
<211> 1187
<212> PRT
<213> Bifidobacterium longum

<400> 350

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Met Leu Ser Arg Gln Leu Leu Gly Ala Ser His Leu Ala Arg Pro Val
1               5                  10                  15

Ser Tyr Ser Tyr Asn Val Gln Asp Asn Asp Val His Cys Ser Tyr Gly
            20                  25                  30

Glu Arg Cys Phe Met Arg Gly Lys Arg Tyr Arg Ile Gly Ile Asp Val
        35                  40                  45

Gly Leu Asn Ser Val Gly Leu Ala Ala Val Glu Val Ser Asp Glu Asn
    50                  55                  60

Ser Pro Val Arg Leu Leu Asn Ala Gln Ser Val Ile His Asp Gly Gly
65                  70                  75                  80

Val Asp Pro Gln Lys Asn Lys Glu Ala Ile Thr Arg Lys Asn Met Ser
                85                  90                  95

Gly Val Ala Arg Arg Thr Arg Arg Met Arg Arg Arg Lys Arg Glu Arg
            100                 105                 110

Leu His Lys Leu Asp Met Leu Leu Gly Lys Phe Gly Tyr Pro Val Ile
        115                 120                 125

Glu Pro Glu Ser Leu Asp Lys Pro Phe Glu Glu Trp His Val Arg Ala
    130                 135                 140
```

```
Glu Leu Ala Thr Arg Tyr Ile Glu Asp Asp Glu Leu Arg Arg Glu Ser
145                 150                 155                 160

Ile Ser Ile Ala Leu Arg His Met Ala Arg His Arg Gly Trp Arg Asn
                165                 170                 175

Pro Tyr Arg Gln Val Asp Ser Leu Ile Ser Asp Asn Pro Tyr Ser Lys
            180                 185                 190

Gln Tyr Gly Glu Leu Lys Glu Lys Ala Lys Ala Tyr Asn Asp Asp Ala
        195                 200                 205

Thr Ala Ala Glu Glu Glu Ser Thr Pro Ala Gln Leu Val Val Ala Met
    210                 215                 220

Leu Asp Ala Gly Tyr Ala Glu Ala Pro Arg Leu Arg Trp Arg Thr Gly
225                 230                 235                 240

Ser Lys Lys Pro Asp Ala Glu Gly Tyr Leu Pro Val Arg Leu Met Gln
                245                 250                 255

Glu Asp Asn Ala Asn Glu Leu Lys Gln Ile Phe Arg Val Gln Arg Val
            260                 265                 270

Pro Ala Asp Glu Trp Lys Pro Leu Phe Arg Ser Val Phe Tyr Ala Val
        275                 280                 285

Ser Pro Lys Gly Ser Ala Glu Gln Arg Val Gly Gln Asp Pro Leu Ala
    290                 295                 300

Pro Glu Gln Ala Arg Ala Leu Lys Ala Ser Leu Ala Phe Gln Glu Tyr
305                 310                 315                 320

Arg Ile Ala Asn Val Ile Thr Asn Leu Arg Ile Lys Asp Ala Ser Ala
                325                 330                 335

Glu Leu Arg Lys Leu Thr Val Asp Glu Lys Gln Ser Ile Tyr Asp Gln
            340                 345                 350

Leu Val Ser Pro Ser Ser Glu Asp Ile Thr Trp Ser Asp Leu Cys Asp
        355                 360                 365

Phe Leu Gly Phe Lys Arg Ser Gln Leu Lys Gly Val Gly Ser Leu Thr
    370                 375                 380

Glu Asp Gly Glu Glu Arg Ile Ser Ser Arg Pro Pro Arg Leu Thr Ser
385                 390                 395                 400

Val Gln Arg Ile Tyr Glu Ser Asp Asn Lys Ile Arg Lys Pro Leu Val
                405                 410                 415
```

```
Ala Trp Trp Lys Ser Ala Ser Asp Asn Glu His Glu Ala Met Ile Arg
            420                 425                 430

Leu Leu Ser Asn Thr Val Asp Ile Asp Lys Val Arg Glu Asp Val Ala
        435                 440                 445

Tyr Ala Ser Ala Ile Glu Phe Ile Asp Gly Leu Asp Asp Asp Ala Leu
    450                 455                 460

Thr Lys Leu Asp Ser Val Asp Leu Pro Ser Gly Arg Ala Ala Tyr Ser
465                 470                 475                 480

Val Glu Thr Leu Gln Lys Leu Thr Arg Gln Met Leu Thr Thr Asp Asp
                485                 490                 495

Asp Leu His Glu Ala Arg Lys Thr Leu Phe Asn Val Thr Asp Ser Trp
            500                 505                 510

Arg Pro Pro Ala Asp Pro Ile Gly Glu Pro Leu Gly Asn Pro Ser Val
        515                 520                 525

Asp Arg Val Leu Lys Asn Val Asn Arg Tyr Leu Met Asn Cys Gln Gln
    530                 535                 540

Arg Trp Gly Asn Pro Val Ser Val Asn Ile Glu His Val Arg Ser Ser
545                 550                 555                 560

Phe Ser Ser Val Ala Phe Ala Arg Lys Asp Lys Arg Glu Tyr Glu Lys
                565                 570                 575

Asn Asn Glu Lys Arg Ser Ile Phe Arg Ser Ser Leu Ser Glu Gln Leu
            580                 585                 590

Arg Ala Asp Glu Gln Met Glu Lys Val Arg Glu Ser Asp Leu Arg Arg
        595                 600                 605

Leu Glu Ala Ile Gln Arg Gln Asn Gly Gln Cys Leu Tyr Cys Gly Arg
    610                 615                 620

Thr Ile Thr Phe Arg Thr Cys Glu Met Asp His Ile Val Pro Arg Lys
625                 630                 635                 640

Gly Val Gly Ser Thr Asn Thr Arg Thr Asn Phe Ala Ala Val Cys Ala
                645                 650                 655

Glu Cys Asn Arg Met Lys Ser Asn Thr Pro Phe Ala Ile Trp Ala Arg
            660                 665                 670

Ser Glu Asp Ala Gln Thr Arg Gly Val Ser Leu Ala Glu Ala Lys Lys
        675                 680                 685
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```
Arg Val Thr Met Phe Thr Phe Asn Pro Lys Ser Tyr Ala Pro Arg Glu
    690                 695                 700

Val Lys Ala Phe Lys Gln Ala Val Ile Ala Arg Leu Gln Gln Thr Glu
705                 710                 715                 720

Asp Asp Ala Ala Ile Asp Asn Arg Ser Ile Glu Ser Val Ala Trp Met
                725                 730                 735

Ala Asp Glu Leu His Arg Arg Ile Asp Trp Tyr Phe Asn Ala Lys Gln
            740                 745                 750

Tyr Val Asn Ser Ala Ser Ile Asp Asp Ala Glu Ala Glu Thr Met Lys
        755                 760                 765

Thr Thr Val Ser Val Phe Gln Gly Arg Val Thr Ala Ser Ala Arg Arg
    770                 775                 780

Ala Ala Gly Ile Glu Gly Lys Ile His Phe Ile Gly Gln Gln Ser Lys
785                 790                 795                 800

Thr Arg Leu Asp Arg Arg His His Ala Val Asp Ala Ser Val Ile Ala
                805                 810                 815

Met Met Asn Thr Ala Ala Ala Gln Thr Leu Met Glu Arg Glu Ser Leu
            820                 825                 830

Arg Glu Ser Gln Arg Leu Ile Gly Leu Met Pro Gly Glu Arg Ser Trp
        835                 840                 845

Lys Glu Tyr Pro Tyr Glu Gly Thr Ser Arg Tyr Glu Ser Phe His Leu
    850                 855                 860

Trp Leu Asp Asn Met Asp Val Leu Leu Glu Leu Leu Asn Asp Ala Leu
865                 870                 875                 880

Asp Asn Asp Arg Ile Ala Val Met Gln Ser Gln Arg Tyr Val Leu Gly
                885                 890                 895

Asn Ser Ile Ala His Asp Ala Thr Ile His Pro Leu Glu Lys Val Pro
            900                 905                 910

Leu Gly Ser Ala Met Ser Ala Asp Leu Ile Arg Arg Ala Ser Thr Pro
        915                 920                 925

Ala Leu Trp Cys Ala Leu Thr Arg Leu Pro Asp Tyr Asp Glu Lys Glu
    930                 935                 940

Gly Leu Pro Glu Asp Ser His Arg Glu Ile Arg Val His Asp Thr Arg
945                 950                 955                 960
```

Tyr Ser Ala Asp Asp Glu Met Gly Phe Phe Ala Ser Gln Ala Ala Gln
965 970 975

Ile Ala Val Gln Glu Gly Ser Ala Asp Ile Gly Ser Ala Ile His His
980 985 990

Ala Arg Val Tyr Arg Cys Trp Lys Thr Asn Ala Lys Gly Val Arg Lys
995 1000 1005

Tyr Phe Tyr Gly Met Ile Arg Val Phe Gln Thr Asp Leu Leu Arg
1010 1015 1020

Ala Cys His Asp Asp Leu Phe Thr Val Pro Leu Pro Pro Gln Ser
1025 1030 1035

Ile Ser Met Arg Tyr Gly Glu Pro Arg Val Val Gln Ala Leu Gln
1040 1045 1050

Ser Gly Asn Ala Gln Tyr Leu Gly Ser Leu Val Val Gly Asp Glu
1055 1060 1065

Ile Glu Met Asp Phe Ser Ser Leu Asp Val Asp Gly Gln Ile Gly
1070 1075 1080

Glu Tyr Leu Gln Phe Phe Ser Gln Phe Ser Gly Gly Asn Leu Ala
1085 1090 1095

Trp Lys His Trp Val Val Asp Gly Phe Phe Asn Gln Thr Gln Leu
1100 1105 1110

Arg Ile Arg Pro Arg Tyr Leu Ala Ala Glu Gly Leu Ala Lys Ala
1115 1120 1125

Phe Ser Asp Asp Val Val Pro Asp Gly Val Gln Lys Ile Val Thr
1130 1135 1140

Lys Gln Gly Trp Leu Pro Pro Val Asn Thr Ala Ser Lys Thr Ala
1145 1150 1155

Val Arg Ile Val Arg Arg Asn Ala Phe Gly Glu Pro Arg Leu Ser
1160 1165 1170

Ser Ala His His Met Pro Cys Ser Trp Gln Trp Arg His Glu
1175 1180 1185

<210> 351
<211> 1150
<212> PRT
<213> Enterococcus faecalis

<400> 351

Met Tyr Ser Ile Gly Leu Asp Leu Gly Ile Ser Ser Val Gly Trp Ser

1 5 10 15

Val Ile Asp Glu Arg Thr Gly Asn Val Ile Asp Leu Gly Val Arg Leu
20 25 30

Phe Ser Ala Lys Asn Ser Glu Lys Asn Leu Glu Arg Arg Thr Asn Arg
35 40 45

Gly Gly Arg Arg Leu Ile Arg Arg Lys Thr Asn Arg Leu Lys Asp Ala
50 55 60

Lys Lys Ile Leu Ala Ala Val Gly Phe Tyr Glu Asp Lys Ser Leu Lys
65 70 75 80

Asn Ser Cys Pro Tyr Gln Leu Arg Val Lys Gly Leu Thr Glu Pro Leu
85 90 95

Ser Arg Gly Glu Ile Tyr Lys Val Thr Leu His Ile Leu Lys Lys Arg
100 105 110

Gly Ile Ser Tyr Leu Asp Glu Val Asp Thr Glu Ala Ala Lys Glu Ser
115 120 125

Gln Asp Tyr Lys Glu Gln Val Arg Lys Asn Ala Gln Leu Leu Thr Lys
130 135 140

Tyr Thr Pro Gly Gln Ile Gln Leu Gln Arg Leu Lys Glu Asn Asn Arg
145 150 155 160

Val Lys Thr Gly Ile Asn Ala Gln Gly Asn Tyr Gln Leu Asn Val Phe
165 170 175

Lys Val Ser Ala Tyr Ala Asn Glu Leu Ala Thr Ile Leu Lys Thr Gln
180 185 190

Gln Ala Phe Tyr Pro Asn Glu Leu Thr Asp Asp Trp Ile Ala Leu Phe
195 200 205

Val Gln Pro Gly Ile Ala Glu Glu Ala Gly Leu Ile Tyr Arg Lys Arg
210 215 220

Pro Tyr Tyr His Gly Pro Gly Asn Glu Ala Asn Asn Ser Pro Tyr Gly
225 230 235 240

Arg Trp Ser Asp Phe Gln Lys Thr Gly Glu Pro Ala Thr Asn Ile Phe
245 250 255

Asp Lys Leu Ile Gly Lys Asp Phe Gln Gly Glu Leu Arg Ala Ser Gly
260 265 270

Leu Ser Leu Ser Ala Gln Gln Tyr Asn Leu Leu Asn Asp Leu Thr Asn

```
        275                 280                 285

Leu Lys Ile Asp Gly Glu Val Pro Leu Ser Ser Glu Gln Lys Glu Tyr
    290                 295                 300

Ile Leu Thr Glu Leu Met Thr Lys Glu Phe Thr Arg Phe Gly Val Asn
305                 310                 315                 320

Asp Val Val Lys Leu Leu Gly Val Lys Lys Glu Arg Leu Ser Gly Trp
                325                 330                 335

Arg Leu Asp Lys Lys Gly Lys Pro Glu Ile His Thr Leu Lys Gly Tyr
            340                 345                 350

Arg Asn Trp Arg Lys Ile Phe Ala Glu Ala Gly Ile Asp Leu Ala Thr
        355                 360                 365

Leu Pro Thr Glu Thr Ile Asp Cys Leu Ala Lys Val Leu Thr Leu Asn
    370                 375                 380

Thr Glu Arg Glu Gly Ile Glu Asn Thr Leu Ala Phe Glu Leu Pro Glu
385                 390                 395                 400

Leu Ser Glu Ser Val Lys Leu Leu Val Leu Asp Arg Tyr Lys Glu Leu
                405                 410                 415

Ser Gln Ser Ile Ser Thr Gln Ser Trp His Arg Phe Ser Leu Lys Thr
            420                 425                 430

Leu His Leu Leu Ile Pro Glu Leu Met Asn Ala Thr Ser Glu Gln Asn
        435                 440                 445

Thr Leu Leu Glu Gln Phe Gln Leu Lys Ser Asp Val Arg Lys Arg Tyr
    450                 455                 460

Ser Glu Tyr Lys Lys Leu Pro Thr Lys Asp Val Leu Ala Glu Ile Tyr
465                 470                 475                 480

Asn Pro Thr Val Asn Lys Thr Val Ser Gln Ala Phe Lys Val Ile Asp
                485                 490                 495

Ala Leu Leu Val Lys Tyr Gly Lys Glu Gln Ile Arg Tyr Ile Thr Ile
            500                 505                 510

Glu Met Pro Arg Asp Asp Asn Glu Glu Asp Glu Lys Lys Arg Ile Lys
        515                 520                 525

Glu Leu His Ala Lys Asn Ser Gln Arg Lys Asn Asp Ser Gln Ser Tyr
    530                 535                 540

Phe Met Gln Lys Ser Gly Trp Ser Gln Glu Lys Phe Gln Thr Thr Ile
```

545 550 555 560

Gln Lys Asn Arg Arg Phe Leu Ala Lys Leu Leu Tyr Tyr Tyr Glu Gln
565 570 575

Asp Gly Ile Cys Ala Tyr Thr Gly Leu Pro Ile Ser Pro Glu Leu Leu
580 585 590

Val Ser Asp Ser Thr Glu Ile Asp His Ile Ile Pro Ile Ser Ile Ser
595 600 605

Leu Asp Asp Ser Ile Asn Asn Lys Val Leu Val Leu Ser Lys Ala Asn
610 615 620

Gln Val Lys Gly Gln Gln Thr Pro Tyr Asp Ala Trp Met Asp Gly Ser
625 630 635 640

Phe Lys Lys Ile Asn Gly Lys Phe Ser Asn Trp Asp Asp Tyr Gln Lys
645 650 655

Trp Val Glu Ser Arg His Phe Ser His Lys Lys Glu Asn Asn Leu Leu
660 665 670

Glu Thr Arg Asn Ile Phe Asp Ser Glu Gln Val Glu Lys Phe Leu Ala
675 680 685

Arg Asn Leu Asn Asp Thr Arg Tyr Ala Ser Arg Leu Val Leu Asn Thr
690 695 700

Leu Gln Ser Phe Phe Thr Asn Gln Glu Thr Lys Val Arg Val Val Asn
705 710 715 720

Gly Ser Phe Thr His Thr Leu Arg Lys Lys Trp Gly Ala Asp Leu Asp
725 730 735

Lys Thr Arg Glu Thr His His His His Ala Val Asp Ala Thr Leu Cys
740 745 750

Ala Val Thr Ser Phe Val Lys Val Ser Arg Tyr His Tyr Ala Val Lys
755 760 765

Glu Glu Thr Gly Glu Lys Val Met Arg Glu Ile Asp Phe Glu Thr Gly
770 775 780

Glu Ile Val Asn Glu Met Ser Tyr Trp Glu Phe Lys Lys Ser Lys Lys
785 790 795 800

Tyr Glu Arg Lys Thr Tyr Gln Val Lys Trp Pro Asn Phe Arg Glu Gln
805 810 815

Leu Lys Pro Val Asn Leu His Pro Arg Ile Lys Phe Ser His Gln Val

820 825 830

Asp Arg Lys Ala Asn Arg Lys Leu Ser Asp Ala Thr Ile Tyr Ser Val
835 840 845

Arg Glu Lys Thr Glu Val Lys Thr Leu Lys Ser Gly Lys Gln Lys Ile
850 855 860

Thr Thr Asp Glu Tyr Thr Ile Gly Lys Ile Lys Asp Ile Tyr Thr Leu
865 870 875 880

Asp Gly Trp Glu Ala Phe Lys Lys Lys Gln Asp Lys Leu Leu Met Lys
885 890 895

Asp Leu Asp Glu Lys Thr Tyr Glu Arg Leu Leu Ser Ile Ala Glu Thr
900 905 910

Thr Pro Asp Phe Gln Glu Val Glu Glu Lys Asn Gly Lys Val Lys Arg
915 920 925

Val Lys Arg Ser Pro Phe Ala Val Tyr Cys Glu Glu Asn Asp Ile Pro
930 935 940

Ala Ile Gln Lys Tyr Ala Lys Lys Asn Asn Gly Pro Leu Ile Arg Ser
945 950 955 960

Leu Lys Tyr Tyr Asp Gly Lys Leu Asn Lys His Ile Asn Ile Thr Lys
965 970 975

Asp Ser Gln Gly Arg Pro Val Glu Lys Thr Lys Asn Gly Arg Lys Val
980 985 990

Thr Leu Gln Ser Leu Lys Pro Tyr Arg Tyr Asp Ile Tyr Gln Asp Leu
995 1000 1005

Glu Thr Lys Ala Tyr Tyr Thr Val Gln Leu Tyr Tyr Ser Asp Leu
1010 1015 1020

Arg Phe Val Glu Gly Lys Tyr Gly Ile Thr Glu Lys Glu Tyr Met
1025 1030 1035

Lys Lys Val Ala Glu Gln Thr Lys Gly Gln Val Val Arg Phe Cys
1040 1045 1050

Phe Ser Leu Gln Lys Asn Asp Gly Leu Glu Ile Glu Trp Lys Asp
1055 1060 1065

Ser Gln Arg Tyr Asp Val Arg Phe Tyr Asn Phe Gln Ser Ala Asn
1070 1075 1080

Ser Ile Asn Phe Lys Gly Leu Glu Gln Glu Met Met Pro Ala Glu

1085 1090 1095

Asn Gln Phe Lys Gln Lys Pro Tyr Asn Asn Gly Ala Ile Asn Leu
1100 1105 1110

Asn Ile Ala Lys Tyr Gly Lys Glu Gly Lys Lys Leu Arg Lys Phe
1115 1120 1125

Asn Thr Asp Ile Leu Gly Lys Lys His Tyr Leu Phe Tyr Glu Lys
1130 1135 1140

Glu Pro Lys Asn Ile Ile Lys
1145 1150

<210> 352
<211> 1236
<212> PRT
<213> Mycoplasma mobile

<400> 352

Met Tyr Phe Tyr Lys Asn Lys Glu Asn Lys Leu Asn Lys Lys Val Val
1 5 10 15

Leu Gly Leu Asp Leu Gly Ile Ala Ser Val Gly Trp Cys Leu Thr Asp
20 25 30

Ile Ser Gln Lys Glu Asp Asn Lys Phe Pro Ile Ile Leu His Gly Val
35 40 45

Arg Leu Phe Glu Thr Val Asp Asp Ser Asp Asp Lys Leu Leu Asn Glu
50 55 60

Thr Arg Arg Lys Lys Arg Gly Gln Arg Arg Arg Asn Arg Arg Leu Phe
65 70 75 80

Thr Arg Lys Arg Asp Phe Ile Lys Tyr Leu Ile Asp Asn Asn Ile Ile
85 90 95

Glu Leu Glu Phe Asp Lys Asn Pro Lys Ile Leu Val Arg Asn Phe Ile
100 105 110

Glu Lys Tyr Ile Asn Pro Phe Ser Lys Asn Leu Glu Leu Lys Tyr Lys
115 120 125

Ser Val Thr Asn Leu Pro Ile Gly Phe His Asn Leu Arg Lys Ala Ala
130 135 140

Ile Asn Glu Lys Tyr Lys Leu Asp Lys Ser Glu Leu Ile Val Leu Leu
145 150 155 160

Tyr Phe Tyr Leu Ser Leu Arg Gly Ala Phe Phe Asp Asn Pro Glu Asp
165 170 175

```
Thr Lys Ser Lys Glu Met Asn Lys Asn Glu Ile Glu Ile Phe Asp Lys
            180                 185                 190

Asn Glu Ser Ile Lys Asn Ala Glu Phe Pro Ile Asp Lys Ile Ile Glu
        195                 200                 205

Phe Tyr Lys Ile Ser Gly Lys Ile Arg Ser Thr Ile Asn Leu Lys Phe
    210                 215                 220

Gly His Gln Asp Tyr Leu Lys Glu Ile Lys Gln Val Phe Glu Lys Gln
225                 230                 235                 240

Asn Ile Asp Phe Met Asn Tyr Glu Lys Phe Ala Met Glu Glu Lys Ser
                245                 250                 255

Phe Phe Ser Arg Ile Arg Asn Tyr Ser Glu Gly Pro Gly Asn Glu Lys
            260                 265                 270

Ser Phe Ser Lys Tyr Gly Leu Tyr Ala Asn Glu Asn Gly Asn Pro Glu
        275                 280                 285

Leu Ile Ile Asn Glu Lys Gly Gln Lys Ile Tyr Thr Lys Ile Phe Lys
    290                 295                 300

Thr Leu Trp Glu Ser Lys Ile Gly Lys Cys Ser Tyr Asp Lys Lys Leu
305                 310                 315                 320

Tyr Arg Ala Pro Lys Asn Ser Phe Ser Ala Lys Val Phe Asp Ile Thr
                325                 330                 335

Asn Lys Leu Thr Asp Trp Lys His Lys Asn Glu Tyr Ile Ser Glu Arg
            340                 345                 350

Leu Lys Arg Lys Ile Leu Leu Ser Arg Phe Leu Asn Lys Asp Ser Lys
        355                 360                 365

Ser Ala Val Glu Lys Ile Leu Lys Glu Glu Asn Ile Lys Phe Glu Asn
    370                 375                 380

Leu Ser Glu Ile Ala Tyr Asn Lys Asp Asp Asn Lys Ile Asn Leu Pro
385                 390                 395                 400

Ile Ile Asn Ala Tyr His Ser Leu Thr Thr Ile Phe Lys Lys His Leu
                405                 410                 415

Ile Asn Phe Glu Asn Tyr Leu Ile Ser Asn Glu Asn Asp Leu Ser Lys
            420                 425                 430

Leu Met Ser Phe Tyr Lys Gln Gln Ser Glu Lys Leu Phe Val Pro Asn
        435                 440                 445
```

```
Glu Lys Gly Ser Tyr Glu Ile Asn Gln Asn Asn Asn Val Leu His Ile
    450                 455                 460

Phe Asp Ala Ile Ser Asn Ile Leu Asn Lys Phe Ser Thr Ile Gln Asp
465                 470                 475                 480

Arg Ile Arg Ile Leu Glu Gly Tyr Phe Glu Phe Ser Asn Leu Lys Lys
                485                 490                 495

Asp Val Lys Ser Ser Glu Ile Tyr Ser Glu Ile Ala Lys Leu Arg Glu
            500                 505                 510

Phe Ser Gly Thr Ser Ser Leu Ser Phe Gly Ala Tyr Tyr Lys Phe Ile
        515                 520                 525

Pro Asn Leu Ile Ser Glu Gly Ser Lys Asn Tyr Ser Thr Ile Ser Tyr
    530                 535                 540

Glu Glu Lys Ala Leu Gln Asn Gln Lys Asn Asn Phe Ser His Ser Asn
545                 550                 555                 560

Leu Phe Glu Lys Thr Trp Val Glu Asp Leu Ile Ala Ser Pro Thr Val
                565                 570                 575

Lys Arg Ser Leu Arg Gln Thr Met Asn Leu Leu Lys Glu Ile Phe Lys
            580                 585                 590

Tyr Ser Glu Lys Asn Asn Leu Glu Ile Glu Lys Ile Val Val Glu Val
        595                 600                 605

Thr Arg Ser Ser Asn Asn Lys His Glu Arg Lys Lys Ile Glu Gly Ile
    610                 615                 620

Asn Lys Tyr Arg Lys Glu Lys Tyr Glu Glu Leu Lys Lys Val Tyr Asp
625                 630                 635                 640

Leu Pro Asn Glu Asn Thr Thr Leu Leu Lys Lys Leu Trp Leu Leu Arg
                645                 650                 655

Gln Gln Gln Gly Tyr Asp Ala Tyr Ser Leu Arg Lys Ile Glu Ala Asn
            660                 665                 670

Asp Val Ile Asn Lys Pro Trp Asn Tyr Asp Ile Asp His Ile Val Pro
        675                 680                 685

Arg Ser Ile Ser Phe Asp Asp Ser Phe Ser Asn Leu Val Ile Val Asn
    690                 695                 700

Lys Leu Asp Asn Ala Lys Lys Ser Asn Asp Leu Ser Ala Lys Gln Phe
705                 710                 715                 720
```

```
Ile Glu Lys Ile Tyr Gly Ile Glu Lys Leu Lys Glu Ala Lys Glu Asn
                725                 730                 735

Trp Gly Asn Trp Tyr Leu Arg Asn Ala Asn Gly Lys Ala Phe Asn Asp
            740                 745                 750

Lys Gly Lys Phe Ile Lys Leu Tyr Thr Ile Asp Asn Leu Asp Glu Phe
        755                 760                 765

Asp Asn Ser Asp Phe Ile Asn Arg Asn Leu Ser Asp Thr Ser Tyr Ile
    770                 775                 780

Thr Asn Ala Leu Val Asn His Leu Thr Phe Ser Asn Ser Lys Tyr Lys
785                 790                 795                 800

Tyr Ser Val Val Ser Val Asn Gly Lys Gln Thr Ser Asn Leu Arg Asn
                805                 810                 815

Gln Ile Ala Phe Val Gly Ile Lys Asn Asn Lys Glu Thr Glu Arg Glu
            820                 825                 830

Trp Lys Arg Pro Glu Gly Phe Lys Ser Ile Asn Ser Asn Asp Phe Leu
        835                 840                 845

Ile Arg Glu Glu Gly Lys Asn Asp Val Lys Asp Asp Val Leu Ile Lys
    850                 855                 860

Asp Arg Ser Phe Asn Gly His His Ala Glu Asp Ala Tyr Phe Ile Thr
865                 870                 875                 880

Ile Ile Ser Gln Tyr Phe Arg Ser Phe Lys Arg Ile Glu Arg Leu Asn
                885                 890                 895

Val Asn Tyr Arg Lys Glu Thr Arg Glu Leu Asp Asp Leu Glu Lys Asn
            900                 905                 910

Asn Ile Lys Phe Lys Glu Lys Ala Ser Phe Asp Asn Phe Leu Leu Ile
        915                 920                 925

Asn Ala Leu Asp Glu Leu Asn Glu Lys Leu Asn Gln Met Arg Phe Ser
    930                 935                 940

Arg Met Val Ile Thr Lys Lys Asn Thr Gln Leu Phe Asn Glu Thr Leu
945                 950                 955                 960

Tyr Ser Gly Lys Tyr Asp Lys Gly Lys Asn Thr Ile Lys Lys Val Glu
                965                 970                 975

Lys Leu Asn Leu Leu Asp Asn Arg Thr Asp Lys Ile Lys Lys Ile Glu
            980                 985                 990
```

```
Glu Phe Phe Asp Glu Asp Lys Leu  Lys Glu Asn Glu Leu  Thr Lys Leu
        995                 1000                1005

His Ile  Phe Asn His Asp Lys  Asn Leu Tyr Glu Thr  Leu Lys Ile
    1010                1015                1020

Ile Trp  Asn Glu Val Lys Ile  Glu Ile Lys Asn Lys  Asn Leu Asn
    1025                1030                1035

Glu Lys  Asn Tyr Phe Lys Tyr  Phe Val Asn Lys Lys  Leu Gln Glu
    1040                1045                1050

Gly Lys  Ile Ser Phe Asn Glu  Trp Val Pro Ile Leu  Asp Asn Asp
    1055                1060                1065

Phe Lys  Ile Ile Arg Lys Ile  Arg Tyr Ile Lys Phe  Ser Ser Glu
    1070                1075                1080

Glu Lys  Glu Thr Asp Glu Ile  Ile Phe Ser Gln Ser  Asn Phe Leu
    1085                1090                1095

Lys Ile  Asp Gln Arg Gln Asn  Phe Ser Phe His Asn  Thr Leu Tyr
    1100                1105                1110

Trp Val  Gln Ile Trp Val Tyr  Lys Asn Gln Lys Asp  Gln Tyr Cys
    1115                1120                1125

Phe Ile  Ser Ile Asp Ala Arg  Asn Ser Lys Phe Glu  Lys Asp Glu
    1130                1135                1140

Ile Lys  Ile Asn Tyr Glu Lys  Leu Lys Thr Gln Lys  Glu Lys Leu
    1145                1150                1155

Gln Ile  Ile Asn Glu Glu Pro  Ile Leu Lys Ile Asn  Lys Gly Asp
    1160                1165                1170

Leu Phe  Glu Asn Glu Glu Lys  Glu Leu Phe Tyr Ile  Val Gly Arg
    1175                1180                1185

Asp Glu  Lys Pro Gln Lys Leu  Glu Ile Lys Tyr Ile  Leu Gly Lys
    1190                1195                1200

Lys Ile  Lys Asp Gln Lys Gln  Ile Gln Lys Pro Val  Lys Lys Tyr
    1205                1210                1215

Phe Pro  Asn Trp Lys Lys Val  Asn Leu Thr Tyr Met  Gly Glu Ile
    1220                1225                1230

Phe Lys  Lys
    1235
```

<210> 353
<211> 1105
<212> PRT
<213> Actinomyces coleocanis

<400> 353

Met Asp Asn Lys Asn Tyr Arg Ile Gly Ile Asp Val Gly Leu Asn Ser
1 5 10 15

Ile Gly Phe Cys Ala Val Glu Val Asp Gln His Asp Thr Pro Leu Gly
20 25 30

Phe Leu Asn Leu Ser Val Tyr Arg His Asp Ala Gly Ile Asp Pro Asn
35 40 45

Gly Lys Lys Thr Asn Thr Thr Arg Leu Ala Met Ser Gly Val Ala Arg
50 55 60

Arg Thr Arg Arg Leu Phe Arg Lys Arg Lys Arg Arg Leu Ala Ala Leu
65 70 75 80

Asp Arg Phe Ile Glu Ala Gln Gly Trp Thr Leu Pro Asp His Ala Asp
85 90 95

Tyr Lys Asp Pro Tyr Thr Pro Trp Leu Val Arg Ala Glu Leu Ala Gln
100 105 110

Thr Pro Ile Arg Asp Glu Asn Asp Leu His Glu Lys Leu Ala Ile Ala
115 120 125

Val Arg His Ile Ala Arg His Arg Gly Trp Arg Ser Pro Trp Val Pro
130 135 140

Val Arg Ser Leu His Val Glu Gln Pro Pro Ser Asp Gln Tyr Leu Ala
145 150 155 160

Leu Lys Glu Arg Val Glu Ala Lys Thr Leu Leu Gln Met Pro Glu Gly
165 170 175

Ala Thr Pro Ala Glu Met Val Val Ala Leu Asp Leu Ser Val Asp Val
180 185 190

Asn Leu Arg Pro Lys Asn Arg Glu Lys Thr Asp Thr Arg Pro Glu Asn
195 200 205

Lys Lys Pro Gly Phe Leu Gly Gly Lys Leu Met Gln Ser Asp Asn Ala
210 215 220

Asn Glu Leu Arg Lys Ile Ala Lys Ile Gln Gly Leu Asp Asp Ala Leu
225 230 235 240

```
Leu Arg Glu Leu Ile Glu Leu Val Phe Ala Ala Asp Ser Pro Lys Gly
                245                 250                 255

Ala Ser Gly Glu Leu Val Gly Tyr Asp Val Leu Pro Gly Gln His Gly
            260                 265                 270

Lys Arg Arg Ala Glu Lys Ala His Pro Ala Phe Gln Arg Tyr Arg Ile
        275                 280                 285

Ala Ser Ile Val Ser Asn Leu Arg Ile Arg His Leu Gly Ser Gly Ala
    290                 295                 300

Asp Glu Arg Leu Asp Val Glu Thr Gln Lys Arg Val Phe Glu Tyr Leu
305                 310                 315                 320

Leu Asn Ala Lys Pro Thr Ala Asp Ile Thr Trp Ser Asp Val Ala Glu
                325                 330                 335

Glu Ile Gly Val Glu Arg Asn Leu Leu Met Gly Thr Ala Thr Gln Thr
            340                 345                 350

Ala Asp Gly Glu Arg Ala Ser Ala Lys Pro Pro Val Asp Val Thr Asn
        355                 360                 365

Val Ala Phe Ala Thr Cys Lys Ile Lys Pro Leu Lys Glu Trp Trp Leu
    370                 375                 380

Asn Ala Asp Tyr Glu Ala Arg Cys Val Met Val Ser Ala Leu Ser His
385                 390                 395                 400

Ala Glu Lys Leu Thr Glu Gly Thr Ala Ala Glu Val Glu Val Ala Glu
                405                 410                 415

Phe Leu Gln Asn Leu Ser Asp Glu Asp Asn Glu Lys Leu Asp Ser Phe
            420                 425                 430

Ser Leu Pro Ile Gly Arg Ala Ala Tyr Ser Val Asp Ser Leu Glu Arg
        435                 440                 445

Leu Thr Lys Arg Met Ile Glu Asn Gly Glu Asp Leu Phe Glu Ala Arg
    450                 455                 460

Val Asn Glu Phe Gly Val Ser Glu Asp Trp Arg Pro Pro Ala Glu Pro
465                 470                 475                 480

Ile Gly Ala Arg Val Gly Asn Pro Ala Val Asp Arg Val Leu Lys Ala
                485                 490                 495

Val Asn Arg Tyr Leu Met Ala Ala Glu Ala Glu Trp Gly Ala Pro Leu
            500                 505                 510
```

```
Ser Val Asn Ile Glu His Val Arg Glu Gly Phe Ile Ser Lys Arg Gln
        515                 520                 525

Ala Val Glu Ile Asp Arg Glu Asn Gln Lys Arg Tyr Gln Arg Asn Gln
    530                 535                 540

Ala Val Arg Ser Gln Ile Ala Asp His Ile Asn Ala Thr Ser Gly Val
545                 550                 555                 560

Arg Gly Ser Asp Val Thr Arg Tyr Leu Ala Ile Gln Arg Gln Asn Gly
                565                 570                 575

Glu Cys Leu Tyr Cys Gly Thr Ala Ile Thr Phe Val Asn Ser Glu Met
            580                 585                 590

Asp His Ile Val Pro Arg Ala Gly Leu Gly Ser Thr Asn Thr Arg Asp
        595                 600                 605

Asn Leu Val Ala Thr Cys Glu Arg Cys Asn Lys Ser Lys Ser Asn Lys
    610                 615                 620

Pro Phe Ala Val Trp Ala Ala Glu Cys Gly Ile Pro Gly Val Ser Val
625                 630                 635                 640

Ala Glu Ala Leu Lys Arg Val Asp Phe Trp Ile Ala Asp Gly Phe Ala
                645                 650                 655

Ser Ser Lys Glu His Arg Glu Leu Gln Lys Gly Val Lys Asp Arg Leu
            660                 665                 670

Lys Arg Lys Val Ser Asp Pro Glu Ile Asp Asn Arg Ser Met Glu Ser
        675                 680                 685

Val Ala Trp Met Ala Arg Glu Leu Ala His Arg Val Gln Tyr Tyr Phe
    690                 695                 700

Asp Glu Lys His Thr Gly Thr Lys Val Arg Val Phe Arg Gly Ser Leu
705                 710                 715                 720

Thr Ser Ala Ala Arg Lys Ala Ser Gly Phe Glu Ser Arg Val Asn Phe
                725                 730                 735

Ile Gly Gly Asn Gly Lys Thr Arg Leu Asp Arg Arg His His Ala Met
            740                 745                 750

Asp Ala Ala Thr Val Ala Met Leu Arg Asn Ser Val Ala Lys Thr Leu
        755                 760                 765

Val Leu Arg Gly Asn Ile Arg Ala Ser Glu Arg Ala Ile Gly Ala Ala
    770                 775                 780
```

```
Glu Thr Trp Lys Ser Phe Arg Gly Glu Asn Val Ala Asp Arg Gln Ile
785                 790                 795                 800

Phe Glu Ser Trp Ser Glu Asn Met Arg Val Leu Val Glu Lys Phe Asn
                805                 810                 815

Leu Ala Leu Tyr Asn Asp Glu Val Ser Ile Phe Ser Ser Leu Arg Leu
            820                 825                 830

Gln Leu Gly Asn Gly Lys Ala His Asp Asp Thr Ile Thr Lys Leu Gln
        835                 840                 845

Met His Lys Val Gly Asp Ala Trp Ser Leu Thr Glu Ile Asp Arg Ala
    850                 855                 860

Ser Thr Pro Ala Leu Trp Cys Ala Leu Thr Arg Gln Pro Asp Phe Thr
865                 870                 875                 880

Trp Lys Asp Gly Leu Pro Ala Asn Glu Asp Arg Thr Ile Ile Val Asn
                885                 890                 895

Gly Thr His Tyr Gly Pro Leu Asp Lys Val Gly Ile Phe Gly Lys Ala
            900                 905                 910

Ala Ala Ser Leu Leu Val Arg Gly Gly Ser Val Asp Ile Gly Ser Ala
        915                 920                 925

Ile His His Ala Arg Ile Tyr Arg Ile Ala Gly Lys Lys Pro Thr Tyr
    930                 935                 940

Gly Met Val Arg Val Phe Ala Pro Asp Leu Leu Arg Tyr Arg Asn Glu
945                 950                 955                 960

Asp Leu Phe Asn Val Glu Leu Pro Pro Gln Ser Val Ser Met Arg Tyr
                965                 970                 975

Ala Glu Pro Lys Val Arg Glu Ala Ile Arg Glu Gly Lys Ala Glu Tyr
            980                 985                 990

Leu Gly Trp Leu Val Val Gly Asp  Glu Leu Leu Leu Asp  Leu Ser Ser
        995                 1000                1005

Glu Thr  Ser Gly Gln Ile Ala  Glu Leu Gln Gln Asp  Phe Pro Gly
    1010                1015                1020

Thr Thr  His Trp Thr Val Ala  Gly Phe Phe Ser Pro  Ser Arg Leu
    1025                1030                1035

Arg Leu  Arg Pro Val Tyr Leu  Ala Gln Glu Gly Leu  Gly Glu Asp
    1040                1045                1050
```

Val Ser Glu Gly Ser Lys Ser Ile Ile Ala Gly Gln Gly Trp Arg
1055 1060 1065

Pro Ala Val Asn Lys Val Phe Gly Ser Ala Met Pro Glu Val Ile
1070 1075 1080

Arg Arg Asp Gly Leu Gly Arg Lys Arg Arg Phe Ser Tyr Ser Gly
1085 1090 1095

Leu Pro Val Ser Trp Gln Gly
1100 1105

<210> 354
<211> 1079
<212> PRT
<213> Dinoroseobacter shibae

<400> 354

Met Arg Leu Gly Leu Asp Ile Gly Thr Ser Ser Ile Gly Trp Trp Leu
1 5 10 15

Tyr Glu Thr Asp Gly Ala Gly Ser Asp Ala Arg Ile Thr Gly Val Val
20 25 30

Asp Gly Gly Val Arg Ile Phe Ser Asp Gly Arg Asp Pro Lys Ser Gly
35 40 45

Ala Ser Leu Ala Val Asp Arg Arg Ala Ala Arg Ala Met Arg Arg Arg
50 55 60

Arg Asp Arg Tyr Leu Arg Arg Arg Ala Thr Leu Met Lys Val Leu Ala
65 70 75 80

Glu Thr Gly Leu Met Pro Ala Asp Pro Ala Glu Ala Lys Ala Leu Glu
85 90 95

Ala Leu Asp Pro Phe Ala Leu Arg Ala Ala Gly Leu Asp Glu Pro Leu
100 105 110

Pro Leu Pro His Leu Gly Arg Ala Leu Phe His Leu Asn Gln Arg Arg
115 120 125

Gly Phe Lys Ser Asn Arg Lys Thr Asp Arg Gly Asp Asn Glu Ser Gly
130 135 140

Lys Ile Lys Asp Ala Thr Ala Arg Leu Asp Met Glu Met Met Ala Asn
145 150 155 160

Gly Ala Arg Thr Tyr Gly Glu Phe Leu His Lys Arg Arg Gln Lys Ala
165 170 175

```
Thr Asp Pro Arg His Val Pro Ser Val Arg Thr Arg Leu Ser Ile Ala
            180                 185                 190

Asn Arg Gly Gly Pro Asp Gly Lys Glu Glu Ala Gly Tyr Asp Phe Tyr
        195                 200                 205

Pro Asp Arg Arg His Leu Glu Glu Glu Phe His Lys Leu Trp Ala Ala
    210                 215                 220

Gln Gly Ala His His Pro Glu Leu Thr Glu Thr Leu Arg Asp Leu Leu
225                 230                 235                 240

Phe Glu Lys Ile Phe Phe Gln Arg Pro Leu Lys Glu Pro Glu Val Gly
                245                 250                 255

Leu Cys Leu Phe Ser Gly His His Gly Val Pro Pro Lys Asp Pro Arg
            260                 265                 270

Leu Pro Lys Ala His Pro Leu Thr Gln Arg Arg Val Leu Tyr Glu Thr
        275                 280                 285

Val Asn Gln Leu Arg Val Thr Ala Asp Gly Arg Glu Ala Arg Pro Leu
    290                 295                 300

Thr Arg Glu Glu Arg Asp Gln Val Ile His Ala Leu Asp Asn Lys Lys
305                 310                 315                 320

Pro Thr Lys Ser Leu Ser Ser Met Val Leu Lys Leu Pro Ala Leu Ala
                325                 330                 335

Lys Val Leu Lys Leu Arg Asp Gly Glu Arg Phe Thr Leu Glu Thr Gly
            340                 345                 350

Val Arg Asp Ala Ile Ala Cys Asp Pro Leu Arg Ala Ser Pro Ala His
        355                 360                 365

Pro Asp Arg Phe Gly Pro Arg Trp Ser Ile Leu Asp Ala Asp Ala Gln
    370                 375                 380

Trp Glu Val Ile Ser Arg Ile Arg Arg Val Gln Ser Asp Ala Glu His
385                 390                 395                 400

Ala Ala Leu Val Asp Trp Leu Thr Glu Ala His Gly Leu Asp Arg Ala
                405                 410                 415

His Ala Glu Ala Thr Ala His Ala Pro Leu Pro Asp Gly Tyr Gly Arg
            420                 425                 430

Leu Gly Leu Thr Ala Thr Thr Arg Ile Leu Tyr Gln Leu Thr Ala Asp
        435                 440                 445
```

```
Val Val Thr Tyr Ala Asp Ala Val Lys Ala Cys Gly Trp His His Ser
    450                 455                 460

Asp Gly Arg Thr Gly Glu Cys Phe Asp Arg Leu Pro Tyr Tyr Gly Glu
465                 470                 475                 480

Val Leu Glu Arg His Val Ile Pro Gly Ser Tyr His Pro Asp Asp Asp
                485                 490                 495

Asp Ile Thr Arg Phe Gly Arg Ile Thr Asn Pro Thr Val His Ile Gly
            500                 505                 510

Leu Asn Gln Leu Arg Arg Leu Val Asn Arg Ile Ile Glu Thr His Gly
        515                 520                 525

Lys Pro His Gln Ile Val Val Glu Leu Ala Arg Asp Leu Lys Lys Ser
    530                 535                 540

Glu Glu Gln Lys Arg Ala Asp Ile Lys Arg Ile Arg Asp Thr Thr Glu
545                 550                 555                 560

Ala Ala Lys Lys Arg Ser Glu Lys Leu Glu Glu Leu Glu Ile Glu Asp
                565                 570                 575

Asn Gly Arg Asn Arg Met Leu Leu Arg Leu Trp Glu Asp Leu Asn Pro
            580                 585                 590

Asp Asp Ala Met Arg Arg Phe Cys Pro Tyr Thr Gly Thr Arg Ile Ser
        595                 600                 605

Ala Ala Met Ile Phe Asp Gly Ser Cys Asp Val Asp His Ile Leu Pro
    610                 615                 620

Tyr Ser Arg Thr Leu Asp Asp Ser Phe Pro Asn Arg Thr Leu Cys Leu
625                 630                 635                 640

Arg Glu Ala Asn Arg Gln Lys Arg Asn Gln Thr Pro Trp Gln Ala Trp
                645                 650                 655

Gly Asp Thr Pro His Trp His Ala Ile Ala Ala Asn Leu Lys Asn Leu
            660                 665                 670

Pro Glu Asn Lys Arg Trp Arg Phe Ala Pro Asp Ala Met Thr Arg Phe
        675                 680                 685

Glu Gly Glu Asn Gly Phe Leu Asp Arg Ala Leu Lys Asp Thr Gln Tyr
    690                 695                 700

Leu Ala Arg Ile Ser Arg Ser Tyr Leu Asp Thr Leu Phe Thr Lys Gly
705                 710                 715                 720
```

```
Gly His Val Trp Val Val Pro Gly Arg Phe Thr Glu Met Leu Arg Arg
                725                 730                 735

His Trp Gly Leu Asn Ser Leu Leu Ser Asp Ala Gly Arg Gly Ala Val
            740                 745                 750

Lys Ala Lys Asn Arg Thr Asp His Arg His His Ala Ile Asp Ala Ala
        755                 760                 765

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

Ala Gly Gln Gly Glu Ala Ala Gly Gln Ser Ala Glu Leu Ile Ala Arg
785                 790                 795                 800

Asp Thr Pro Pro Pro Trp Glu Gly Phe Arg Asp Asp Leu Arg Val Arg
                805                 810                 815

Leu Asp Arg Ile Ile Val Ser His Arg Ala Asp His Gly Arg Ile Asp
            820                 825                 830

His Ala Ala Arg Lys Gln Gly Arg Asp Ser Thr Ala Gly Gln Leu His
        835                 840                 845

Gln Glu Thr Ala Tyr Ser Ile Val Asp Asp Ile His Val Ala Ser Arg
    850                 855                 860

Thr Asp Leu Leu Ser Leu Lys Pro Ala Gln Leu Leu Asp Glu Pro Gly
865                 870                 875                 880

Arg Ser Gly Gln Val Arg Asp Pro Gln Leu Arg Lys Ala Leu Arg Val
                885                 890                 895

Ala Thr Gly Gly Lys Thr Gly Lys Asp Phe Glu Asn Ala Leu Arg Tyr
            900                 905                 910

Phe Ala Ser Lys Pro Gly Pro Tyr Gln Ala Ile Arg Arg Val Arg Ile
        915                 920                 925

Ile Lys Pro Leu Gln Ala Gln Ala Arg Val Pro Val Pro Ala Gln Asp
    930                 935                 940

Pro Ile Lys Ala Tyr Gln Gly Gly Ser Asn His Leu Phe Glu Ile Trp
945                 950                 955                 960

Arg Leu Pro Asp Gly Glu Ile Glu Ala Gln Val Ile Thr Ser Phe Glu
                965                 970                 975

Ala His Thr Leu Glu Gly Glu Lys Arg Pro His Pro Ala Ala Lys Arg
            980                 985                 990
```

Leu Leu Arg Val His Lys Gly Asp Met Val Ala Leu Glu Arg Asp Gly
995 1000 1005

Arg Arg Val Val Gly His Val Gln Lys Met Asp Ile Ala Asn Gly
1010 1015 1020

Leu Phe Ile Val Pro His Asn Glu Ala Asn Ala Asp Thr Arg Asn
1025 1030 1035

Asn Asp Lys Ser Asp Pro Phe Lys Trp Ile Gln Ile Gly Ala Arg
1040 1045 1050

Pro Ala Ile Ala Ser Gly Ile Arg Arg Val Ser Val Asp Glu Ile
1055 1060 1065

Gly Arg Leu Arg Asp Gly Gly Thr Arg Pro Ile
1070 1075

<210> 355
<211> 1181
<212> PRT
<213> Actinomyces sp.

<400> 355

Met Leu His Cys Ile Ala Val Ile Arg Val Pro Pro Ser Glu Glu Pro
1 5 10 15

Gly Phe Phe Glu Thr His Ala Asp Ser Cys Ala Leu Cys His His Gly
20 25 30

Cys Met Thr Tyr Ala Ala Asn Asp Lys Ala Ile Arg Tyr Arg Val Gly
35 40 45

Ile Asp Val Gly Leu Arg Ser Ile Gly Phe Cys Ala Val Glu Val Asp
50 55 60

Asp Glu Asp His Pro Ile Arg Ile Leu Asn Ser Val Val His Val His
65 70 75 80

Asp Ala Gly Thr Gly Gly Pro Gly Glu Thr Glu Ser Leu Arg Lys Arg
85 90 95

Ser Gly Val Ala Ala Arg Ala Arg Arg Arg Gly Arg Ala Glu Lys Gln
100 105 110

Arg Leu Lys Lys Leu Asp Val Leu Leu Glu Glu Leu Gly Trp Gly Val
115 120 125

Ser Ser Asn Glu Leu Leu Asp Ser His Ala Pro Trp His Ile Arg Lys
130 135 140

Arg Leu Val Ser Glu Tyr Ile Glu Asp Glu Thr Glu Arg Arg Gln Cys

```
145                 150                 155                 160

Leu Ser Val Ala Met Ala His Ile Ala Arg His Arg Gly Trp Arg Asn
                165                 170                 175

Ser Phe Ser Lys Val Asp Thr Leu Leu Leu Glu Gln Ala Pro Ser Asp
            180                 185                 190

Arg Met Gln Gly Leu Lys Glu Arg Val Glu Asp Arg Thr Gly Leu Gln
        195                 200                 205

Phe Ser Glu Glu Val Thr Gln Gly Glu Leu Val Ala Thr Leu Leu Glu
    210                 215                 220

His Asp Gly Asp Val Thr Ile Arg Gly Phe Val Arg Lys Gly Gly Lys
225                 230                 235                 240

Ala Thr Lys Val His Gly Val Leu Glu Gly Lys Tyr Met Gln Ser Asp
                245                 250                 255

Leu Val Ala Glu Leu Arg Gln Ile Cys Arg Thr Gln Arg Val Ser Glu
            260                 265                 270

Thr Thr Phe Glu Lys Leu Val Leu Ser Ile Phe His Ser Lys Glu Pro
        275                 280                 285

Ala Pro Ser Ala Ala Arg Gln Arg Glu Arg Val Gly Leu Asp Glu Leu
    290                 295                 300

Gln Leu Ala Leu Asp Pro Ala Ala Lys Gln Pro Arg Ala Glu Arg Ala
305                 310                 315                 320

His Pro Ala Phe Gln Lys Phe Lys Val Val Ala Thr Leu Ala Asn Met
                325                 330                 335

Arg Ile Arg Glu Gln Ser Ala Gly Glu Arg Ser Leu Thr Ser Glu Glu
            340                 345                 350

Leu Asn Arg Val Ala Arg Tyr Leu Leu Asn His Thr Glu Ser Glu Ser
        355                 360                 365

Pro Thr Trp Asp Asp Val Ala Arg Lys Leu Glu Val Pro Arg His Arg
    370                 375                 380

Leu Arg Gly Ser Ser Arg Ala Ser Leu Glu Thr Gly Gly Gly Leu Thr
385                 390                 395                 400

Tyr Pro Pro Val Asp Asp Thr Thr Val Arg Val Met Ser Ala Glu Val
                405                 410                 415

Asp Trp Leu Ala Asp Trp Trp Asp Cys Ala Asn Asp Glu Ser Arg Gly
```

420 425 430

His Met Ile Asp Ala Ile Ser Asn Gly Cys Gly Ser Glu Pro Asp Asp
435 440 445

Val Glu Asp Glu Glu Val Asn Glu Leu Ile Ser Ser Ala Thr Ala Glu
450 455 460

Asp Met Leu Lys Leu Glu Leu Leu Ala Lys Lys Leu Pro Ser Gly Arg
465 470 475 480

Val Ala Tyr Ser Leu Lys Thr Leu Arg Glu Val Thr Ala Ala Ile Leu
485 490 495

Glu Thr Gly Asp Asp Leu Ser Gln Ala Ile Thr Arg Leu Tyr Gly Val
500 505 510

Asp Pro Gly Trp Val Pro Thr Pro Ala Pro Ile Glu Ala Pro Val Gly
515 520 525

Asn Pro Ser Val Asp Arg Val Leu Lys Gln Val Ala Arg Trp Leu Lys
530 535 540

Phe Ala Ser Lys Arg Trp Gly Val Pro Gln Thr Val Asn Ile Glu His
545 550 555 560

Thr Arg Glu Gly Leu Lys Ser Ala Ser Leu Leu Glu Glu Glu Arg Glu
565 570 575

Arg Trp Glu Arg Phe Glu Ala Arg Arg Glu Ile Arg Gln Lys Glu Met
580 585 590

Tyr Lys Arg Leu Gly Ile Ser Gly Pro Phe Arg Arg Ser Asp Gln Val
595 600 605

Arg Tyr Glu Ile Leu Asp Leu Gln Asp Cys Ala Cys Leu Tyr Cys Gly
610 615 620

Asn Glu Ile Asn Phe Gln Thr Phe Glu Val Asp His Ile Ile Pro Arg
625 630 635 640

Val Asp Ala Ser Ser Asp Ser Arg Arg Thr Asn Leu Ala Ala Val Cys
645 650 655

His Ser Cys Asn Ser Ala Lys Gly Gly Leu Ala Phe Gly Gln Trp Val
660 665 670

Lys Arg Gly Asp Cys Pro Ser Gly Val Ser Leu Glu Asn Ala Ile Lys
675 680 685

Arg Val Arg Ser Trp Ser Lys Asp Arg Leu Gly Leu Thr Glu Lys Ala

690 695 700

Met Gly Lys Arg Lys Ser Glu Val Ile Ser Arg Leu Lys Thr Glu Met
705 710 715 720

Pro Tyr Glu Glu Phe Asp Gly Arg Ser Met Glu Ser Val Ala Trp Met
725 730 735

Ala Ile Glu Leu Lys Lys Arg Ile Glu Gly Tyr Phe Asn Ser Asp Arg
740 745 750

Pro Glu Gly Cys Ala Ala Val Gln Val Asn Ala Tyr Ser Gly Arg Leu
755 760 765

Thr Ala Cys Ala Arg Arg Ala Ala His Val Asp Lys Arg Val Arg Leu
770 775 780

Ile Arg Leu Lys Gly Asp Asp Gly His His Lys Asn Arg Phe Asp Arg
785 790 795 800

Arg Asn His Ala Met Asp Ala Leu Val Ile Ala Leu Met Thr Pro Ala
805 810 815

Ile Ala Arg Thr Ile Ala Val Arg Glu Asp Arg Arg Glu Ala Gln Gln
820 825 830

Leu Thr Arg Ala Phe Glu Ser Trp Lys Asn Phe Leu Gly Ser Glu Glu
835 840 845

Arg Met Gln Asp Arg Trp Glu Ser Trp Ile Gly Asp Val Glu Tyr Ala
850 855 860

Cys Asp Arg Leu Asn Glu Leu Ile Asp Ala Asp Lys Ile Pro Val Thr
865 870 875 880

Glu Asn Leu Arg Leu Arg Asn Ser Gly Lys Leu His Ala Asp Gln Pro
885 890 895

Glu Ser Leu Lys Lys Ala Arg Arg Gly Ser Lys Arg Pro Arg Pro Gln
900 905 910

Arg Tyr Val Leu Gly Asp Ala Leu Pro Ala Asp Val Ile Asn Arg Val
915 920 925

Thr Asp Pro Gly Leu Trp Thr Ala Leu Val Arg Ala Pro Gly Phe Asp
930 935 940

Ser Gln Leu Gly Leu Pro Ala Asp Leu Asn Arg Gly Leu Lys Leu Arg
945 950 955 960

Gly Lys Arg Ile Ser Ala Asp Phe Pro Ile Asp Tyr Phe Pro Thr Asp

965 970 975

Ser Pro Ala Leu Ala Val Gln Gly Gly Tyr Val Gly Leu Glu Phe His
980 985 990

His Ala Arg Leu Tyr Arg Ile Ile Gly Pro Lys Glu Lys Val Lys Tyr
995 1000 1005

Ala Leu Leu Arg Val Cys Ala Ile Asp Leu Cys Gly Ile Asp Cys
1010 1015 1020

Asp Asp Leu Phe Glu Val Glu Leu Lys Pro Ser Ser Ile Ser Met
1025 1030 1035

Arg Thr Ala Asp Ala Lys Leu Lys Glu Ala Met Gly Asn Gly Ser
1040 1045 1050

Ala Lys Gln Ile Gly Trp Leu Val Leu Gly Asp Glu Ile Gln Ile
1055 1060 1065

Asp Pro Thr Lys Phe Pro Lys Gln Ser Ile Gly Lys Phe Leu Lys
1070 1075 1080

Glu Cys Gly Pro Val Ser Ser Trp Arg Val Ser Ala Leu Asp Thr
1085 1090 1095

Pro Ser Lys Ile Thr Leu Lys Pro Arg Leu Leu Ser Asn Glu Pro
1100 1105 1110

Leu Leu Lys Thr Ser Arg Val Gly Gly His Glu Ser Asp Leu Val
1115 1120 1125

Val Ala Glu Cys Val Glu Lys Ile Met Lys Lys Thr Gly Trp Val
1130 1135 1140

Val Glu Ile Asn Ala Leu Cys Gln Ser Gly Leu Ile Arg Val Ile
1145 1150 1155

Arg Arg Asn Ala Leu Gly Glu Val Arg Thr Ser Pro Lys Ser Gly
1160 1165 1170

Leu Pro Ile Ser Leu Asn Leu Arg
1175 1180

<210> 356
<211> 1113
<212> PRT
<213> Alcanivorax sp.

<400> 356

Met Arg Tyr Arg Val Gly Leu Asp Leu Gly Thr Ala Ser Val Gly Ala
1 5 10 15

```
Ala Val Phe Ser Met Asp Glu Gln Gly Asn Pro Met Glu Leu Ile Trp
            20                  25                  30

His Tyr Glu Arg Leu Phe Ser Glu Pro Leu Val Pro Asp Met Gly Gln
        35                  40                  45

Leu Lys Pro Lys Lys Ala Ala Arg Arg Leu Ala Arg Gln Gln Arg Arg
    50                  55                  60

Gln Ile Asp Arg Arg Ala Ser Arg Leu Arg Arg Ile Ala Ile Val Ser
65                  70                  75                  80

Arg Arg Leu Gly Ile Ala Pro Gly Arg Asn Asp Ser Gly Val His Gly
                85                  90                  95

Asn Asp Val Pro Thr Leu Arg Ala Met Ala Val Asn Glu Arg Ile Glu
            100                 105                 110

Leu Gly Gln Leu Arg Ala Val Leu Leu Arg Met Gly Lys Lys Arg Gly
        115                 120                 125

Tyr Gly Gly Thr Phe Lys Ala Val Arg Lys Val Gly Glu Ala Gly Glu
    130                 135                 140

Val Ala Ser Gly Ala Ser Arg Leu Glu Glu Glu Met Val Ala Leu Ala
145                 150                 155                 160

Ser Val Gln Asn Lys Asp Ser Val Thr Val Gly Glu Tyr Leu Ala Ala
                165                 170                 175

Arg Val Glu His Gly Leu Pro Ser Lys Leu Lys Val Ala Ala Asn Asn
            180                 185                 190

Glu Tyr Tyr Ala Pro Glu Tyr Ala Leu Phe Arg Gln Tyr Leu Gly Leu
        195                 200                 205

Pro Ala Ile Lys Gly Arg Pro Asp Cys Leu Pro Asn Met Tyr Ala Leu
    210                 215                 220

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

Gln Phe His Asp Val Met Lys Asp His Gly Val Lys Glu Glu Ile Arg
                245                 250                 255

Asn Ala Ile Phe Phe Gln Arg Pro Leu Lys Ser Pro Ala Asp Lys Val
            260                 265                 270

Gly Arg Cys Ser Leu Gln Thr Asn Leu Pro Arg Ala Pro Arg Ala Gln
        275                 280                 285
```

```
Ile Ala Ala Gln Asn Phe Arg Ile Glu Lys Gln Met Ala Asp Leu Arg
    290                 295                 300

Trp Gly Met Gly Arg Arg Ala Glu Met Leu Asn Asp His Gln Lys Ala
305                 310                 315                 320

Val Ile Arg Glu Leu Leu Asn Gln Gln Lys Glu Leu Ser Phe Arg Lys
                325                 330                 335

Ile Tyr Lys Glu Leu Glu Arg Ala Gly Cys Pro Gly Pro Glu Gly Lys
            340                 345                 350

Gly Leu Asn Met Asp Arg Ala Ala Leu Gly Gly Arg Asp Asp Leu Ser
        355                 360                 365

Gly Asn Thr Thr Leu Ala Ala Trp Arg Lys Leu Gly Leu Glu Asp Arg
    370                 375                 380

Trp Gln Glu Leu Asp Glu Val Thr Gln Ile Gln Val Ile Asn Phe Leu
385                 390                 395                 400

Ala Asp Leu Gly Ser Pro Glu Gln Leu Asp Thr Asp Asp Trp Ser Cys
                405                 410                 415

Arg Phe Met Gly Lys Asn Gly Arg Pro Arg Asn Phe Ser Asp Glu Phe
            420                 425                 430

Val Ala Phe Met Asn Glu Leu Arg Met Thr Asp Gly Phe Asp Arg Leu
        435                 440                 445

Ser Lys Met Gly Phe Glu Gly Gly Arg Ser Ser Tyr Ser Ile Lys Ala
    450                 455                 460

Leu Lys Ala Leu Thr Glu Trp Met Ile Ala Pro His Trp Arg Glu Thr
465                 470                 475                 480

Pro Glu Thr His Arg Val Asp Glu Glu Ala Ala Ile Arg Glu Cys Tyr
                485                 490                 495

Pro Glu Ser Leu Ala Thr Pro Ala Gln Gly Gly Arg Gln Ser Lys Leu
            500                 505                 510

Glu Pro Pro Pro Leu Thr Gly Asn Glu Val Val Asp Val Ala Leu Arg
        515                 520                 525

Gln Val Arg His Thr Ile Asn Met Met Ile Asp Asp Leu Gly Ser Val
    530                 535                 540

Pro Ala Gln Ile Val Val Glu Met Ala Arg Glu Met Lys Gly Gly Val
545                 550                 555                 560
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Thr Arg Arg Asn Asp Ile Glu Lys Gln Asn Lys Arg Phe Ala Ser Glu
                565                 570                 575

Arg Lys Lys Ala Ala Gln Ser Ile Glu Glu Asn Gly Lys Thr Pro Thr
            580                 585                 590

Pro Ala Arg Ile Leu Arg Tyr Gln Leu Trp Ile Glu Gln Gly His Gln
        595                 600                 605

Cys Pro Tyr Cys Glu Ser Asn Ile Ser Leu Glu Gln Ala Leu Ser Gly
    610                 615                 620

Ala Tyr Thr Asn Phe Glu His Ile Leu Pro Arg Thr Leu Thr Gln Ile
625                 630                 635                 640

Gly Arg Lys Arg Ser Glu Leu Val Leu Ala His Arg Glu Cys Asn Asp
                645                 650                 655

Glu Lys Gly Asn Arg Thr Pro Tyr Gln Ala Phe Gly His Asp Asp Arg
            660                 665                 670

Arg Trp Arg Ile Val Glu Gln Arg Ala Asn Ala Leu Pro Lys Lys Ser
        675                 680                 685

Ser Arg Lys Thr Arg Leu Leu Leu Leu Lys Asp Phe Glu Gly Glu Ala
    690                 695                 700

Leu Thr Asp Glu Ser Ile Asp Glu Phe Ala Asp Arg Gln Leu His Glu
705                 710                 715                 720

Ser Ser Trp Leu Ala Lys Val Thr Thr Gln Trp Leu Ser Ser Leu Gly
                725                 730                 735

Ser Asp Val Tyr Val Ser Arg Gly Ser Leu Thr Ala Glu Leu Arg Arg
            740                 745                 750

Arg Trp Gly Leu Asp Thr Val Ile Pro Gln Val Arg Phe Glu Ser Gly
        755                 760                 765

Met Pro Val Val Asp Glu Glu Gly Ala Glu Ile Thr Pro Glu Glu Phe
    770                 775                 780

Glu Lys Phe Arg Leu Gln Trp Glu Gly His Arg Val Thr Arg Glu Met
785                 790                 795                 800

Arg Thr Asp Arg Arg Pro Asp Lys Arg Ile Asp His Arg His His Leu
                805                 810                 815

Val Asp Ala Ile Val Thr Ala Leu Thr Ser Arg Ser Leu Tyr Gln Gln
            820                 825                 830
```

```
Tyr Ala Lys Ala Trp Lys Val Ala Asp Glu Lys Gln Arg His Gly Arg
        835                 840                 845

Val Asp Val Lys Val Glu Leu Pro Met Pro Ile Leu Thr Ile Arg Asp
    850                 855                 860

Ile Ala Leu Glu Ala Val Arg Ser Val Arg Ile Ser His Lys Pro Asp
865                 870                 875                 880

Arg Tyr Pro Asp Gly Arg Phe Phe Glu Ala Thr Ala Tyr Gly Ile Ala
                885                 890                 895

Gln Arg Leu Asp Glu Arg Ser Gly Glu Lys Val Asp Trp Leu Val Ser
            900                 905                 910

Arg Lys Ser Leu Thr Asp Leu Ala Pro Glu Lys Lys Ser Ile Asp Val
        915                 920                 925

Asp Lys Val Arg Ala Asn Ile Ser Arg Ile Val Gly Glu Ala Ile Arg
    930                 935                 940

Leu His Ile Ser Asn Ile Phe Glu Lys Arg Val Ser Lys Gly Met Thr
945                 950                 955                 960

Pro Gln Gln Ala Leu Arg Glu Pro Ile Glu Phe Gln Gly Asn Ile Leu
                965                 970                 975

Arg Lys Val Arg Cys Phe Tyr Ser Lys Ala Asp Asp Cys Val Arg Ile
            980                 985                 990

Glu His Ser Ser Arg Arg Gly His  His Tyr Lys Met Leu  Leu Asn Asp
        995                 1000                1005

Gly Phe  Ala Tyr Met Glu Val  Pro Cys Lys Glu Gly  Ile Leu Tyr
    1010                1015                1020

Gly Val  Pro Asn Leu Val Arg  Pro Ser Glu Ala Val  Gly Ile Lys
    1025                1030                1035

Arg Ala  Pro Glu Ser Gly Asp  Phe Ile Arg Phe Tyr  Lys Gly Asp
    1040                1045                1050

Thr Val  Lys Asn Ile Lys Thr  Gly Arg Val Tyr Thr  Ile Lys Gln
    1055                1060                1065

Ile Leu  Gly Asp Gly Gly Gly  Lys Leu Ile Leu Thr  Pro Val Thr
    1070                1075                1080

Glu Thr  Lys Pro Ala Asp Leu  Leu Ser Ala Lys Trp  Gly Arg Leu
    1085                1090                1095
```

Lys Val Gly Gly Arg Asn Ile His Leu Leu Arg Leu Cys Ala Glu
1100 1105 1110

<210> 357
<211> 1052
<212> PRT
<213> Aminomonas paucivorans

<400> 357

Met Ile Gly Glu His Val Arg Gly Gly Cys Leu Phe Asp Asp His Trp
1 5 10 15

Thr Pro Asn Trp Gly Ala Phe Arg Leu Pro Asn Thr Val Arg Thr Phe
20 25 30

Thr Lys Ala Glu Asn Pro Lys Asp Gly Ser Ser Leu Ala Glu Pro Arg
35 40 45

Arg Gln Ala Arg Gly Leu Arg Arg Arg Leu Arg Arg Lys Thr Gln Arg
50 55 60

Leu Glu Asp Leu Arg Arg Leu Leu Ala Lys Glu Gly Val Leu Ser Leu
65 70 75 80

Ser Asp Leu Glu Thr Leu Phe Arg Glu Thr Pro Ala Lys Asp Pro Tyr
85 90 95

Gln Leu Arg Ala Glu Gly Leu Asp Arg Pro Leu Ser Phe Pro Glu Trp
100 105 110

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

Arg Arg Asn Pro Val Glu Asp Gly Gln Glu Arg Ser Arg Gln Glu Glu
130 135 140

Glu Gly Lys Leu Leu Ser Gly Val Gly Glu Asn Glu Arg Leu Leu Arg
145 150 155 160

Glu Gly Gly Tyr Arg Thr Ala Gly Glu Met Leu Ala Arg Asp Pro Lys
165 170 175

Phe Gln Asp His Arg Arg Asn Arg Ala Gly Asp Tyr Ser His Thr Leu
180 185 190

Ser Arg Ser Leu Leu Leu Glu Glu Ala Arg Arg Leu Phe Gln Ser Gln
195 200 205

Arg Thr Leu Gly Asn Pro His Ala Ser Ser Asn Leu Glu Glu Ala Phe
210 215 220

```
Leu His Leu Val Ala Phe Gln Asn Pro Phe Ala Ser Gly Glu Asp Ile
225                 230                 235                 240

Arg Asn Lys Ala Gly His Cys Ser Leu Glu Pro Asp Gln Ile Arg Ala
                245                 250                 255

Pro Arg Arg Ser Ala Ser Ala Glu Thr Phe Met Leu Leu Gln Lys Thr
            260                 265                 270

Gly Asn Leu Arg Leu Ile His Arg Arg Thr Gly Glu Glu Arg Pro Leu
        275                 280                 285

Thr Asp Lys Glu Arg Glu Gln Ile His Leu Leu Ala Trp Lys Gln Glu
    290                 295                 300

Lys Val Thr His Lys Thr Leu Arg Arg His Leu Glu Ile Pro Glu Glu
305                 310                 315                 320

Trp Leu Phe Thr Gly Leu Pro Tyr His Arg Ser Gly Asp Lys Ala Glu
                325                 330                 335

Glu Lys Leu Phe Val His Leu Ala Gly Ile His Glu Ile Arg Lys Ala
            340                 345                 350

Leu Asp Lys Gly Pro Asp Pro Ala Val Trp Asp Thr Leu Arg Ser Arg
        355                 360                 365

Arg Asp Leu Leu Asp Ser Ile Ala Asp Thr Leu Thr Phe Tyr Lys Asn
    370                 375                 380

Glu Asp Glu Ile Leu Pro Arg Leu Glu Ser Leu Gly Leu Ser Pro Glu
385                 390                 395                 400

Asn Ala Arg Ala Leu Ala Pro Leu Ser Phe Ser Gly Thr Ala His Leu
                405                 410                 415

Ser Leu Ser Ala Leu Gly Lys Leu Leu Pro His Leu Glu Glu Gly Lys
            420                 425                 430

Ser Tyr Thr Gln Ala Arg Ala Asp Ala Gly Tyr Ala Ala Pro Pro Pro
        435                 440                 445

Asp Arg His Pro Lys Leu Pro Pro Leu Glu Glu Ala Asp Trp Arg Asn
    450                 455                 460

Pro Val Val Phe Arg Ala Leu Thr Gln Thr Arg Lys Val Val Asn Ala
465                 470                 475                 480

Leu Val Arg Arg Tyr Gly Pro Pro Trp Cys Ile His Leu Glu Thr Ala
                485                 490                 495
```

```
Arg Glu Leu Ser Gln Pro Ala Lys Val Arg Arg Arg Ile Glu Thr Glu
            500                 505                 510

Gln Gln Ala Asn Glu Lys Lys Lys Gln Gln Ala Glu Arg Glu Phe Leu
        515                 520                 525

Asp Ile Val Gly Thr Ala Pro Gly Pro Gly Asp Leu Leu Lys Met Arg
    530                 535                 540

Leu Trp Arg Glu Gln Gly Gly Phe Cys Pro Tyr Cys Glu Glu Tyr Leu
545                 550                 555                 560

Asn Pro Thr Arg Leu Ala Glu Pro Gly Tyr Ala Glu Met Asp His Ile
                565                 570                 575

Leu Pro Tyr Ser Arg Ser Leu Asp Asn Gly Trp His Asn Arg Val Leu
            580                 585                 590

Val His Gly Lys Asp Asn Arg Asp Lys Gly Asn Arg Thr Pro Phe Glu
        595                 600                 605

Ala Phe Gly Gly Asp Thr Ala Arg Trp Asp Arg Leu Val Ala Trp Val
    610                 615                 620

Gln Ala Ser His Leu Ser Ala Pro Lys Lys Arg Asn Leu Leu Arg Glu
625                 630                 635                 640

Asp Phe Gly Glu Glu Ala Glu Arg Glu Leu Lys Asp Arg Asn Leu Thr
                645                 650                 655

Asp Thr Arg Phe Ile Thr Lys Thr Ala Ala Thr Leu Leu Arg Asp Arg
            660                 665                 670

Leu Thr Phe His Pro Glu Ala Pro Lys Asp Pro Val Met Thr Leu Asn
        675                 680                 685

Gly Arg Leu Thr Ala Phe Leu Arg Lys Gln Trp Gly Leu His Lys Asn
    690                 695                 700

Arg Lys Asn Gly Asp Leu His His Ala Leu Asp Ala Ala Val Leu Ala
705                 710                 715                 720

Val Ala Ser Arg Ser Phe Val Tyr Arg Leu Ser Ser His Asn Ala Ala
                725                 730                 735

Trp Gly Glu Leu Pro Arg Gly Arg Glu Ala Glu Asn Gly Phe Ser Leu
            740                 745                 750

Pro Tyr Pro Ala Phe Arg Ser Glu Val Leu Ala Arg Leu Cys Pro Thr
        755                 760                 765
```

```
Arg Glu Glu Ile Leu Leu Arg Leu Asp Gln Gly Gly Val Gly Tyr Asp
    770                 775                 780

Glu Ala Phe Arg Asn Gly Leu Arg Pro Val Phe Val Ser Arg Ala Pro
785                 790                 795                 800

Ser Arg Arg Leu Arg Gly Lys Ala His Met Glu Thr Leu Arg Ser Pro
                805                 810                 815

Lys Trp Lys Asp His Pro Glu Gly Pro Arg Thr Ala Ser Arg Ile Pro
            820                 825                 830

Leu Lys Asp Leu Asn Leu Glu Lys Leu Glu Arg Met Val Gly Lys Asp
        835                 840                 845

Arg Asp Arg Lys Leu Tyr Glu Ala Leu Arg Glu Arg Leu Ala Ala Phe
    850                 855                 860

Gly Gly Asn Gly Lys Lys Ala Phe Val Ala Pro Phe Arg Lys Pro Cys
865                 870                 875                 880

Arg Ser Gly Glu Gly Pro Leu Val Arg Ser Leu Arg Ile Phe Asp Ser
                885                 890                 895

Gly Tyr Ser Gly Val Glu Leu Arg Asp Gly Gly Glu Val Tyr Ala Val
            900                 905                 910

Ala Asp His Glu Ser Met Val Arg Val Asp Val Tyr Ala Lys Lys Asn
        915                 920                 925

Arg Phe Tyr Leu Val Pro Val Tyr Val Ala Asp Val Ala Arg Gly Ile
    930                 935                 940

Val Lys Asn Arg Ala Ile Val Ala His Lys Ser Glu Glu Glu Trp Asp
945                 950                 955                 960

Leu Val Asp Gly Ser Phe Asp Phe Arg Phe Ser Leu Phe Pro Gly Asp
                965                 970                 975

Leu Val Glu Ile Glu Lys Lys Asp Gly Ala Tyr Leu Gly Tyr Tyr Lys
            980                 985                 990

Ser Cys His Arg Gly Asp Gly Arg  Leu Leu Leu Asp Arg  His Asp Arg
        995                 1000                1005

Met Pro  Arg Glu Ser Asp Cys  Gly Thr Phe Tyr Val  Ser Thr Arg
    1010                1015                1020

Lys Asp  Val Leu Ser Met Ser  Lys Tyr Gln Val Asp  Pro Leu Gly
    1025                1030                1035
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Glu Ile Arg Leu Val Gly Ser Glu Lys Pro Pro Phe Val Leu
1040 1045 1050

<210> 358
<211> 1233
<212> PRT
<213> Mycoplasma canis

<400> 358

Met Glu Lys Lys Arg Lys Val Thr Leu Gly Phe Asp Leu Gly Ile Ala
1 5 10 15

Ser Val Gly Trp Ala Ile Val Asp Ser Glu Thr Asn Gln Val Tyr Lys
20 25 30

Leu Gly Ser Arg Leu Phe Asp Ala Pro Asp Thr Asn Leu Glu Arg Arg
35 40 45

Thr Gln Arg Gly Thr Arg Arg Leu Leu Arg Arg Arg Lys Tyr Arg Asn
50 55 60

Gln Lys Phe Tyr Asn Leu Val Lys Arg Thr Glu Val Phe Gly Leu Ser
65 70 75 80

Ser Arg Glu Ala Ile Glu Asn Arg Phe Arg Glu Leu Ser Ile Lys Tyr
85 90 95

Pro Asn Ile Ile Glu Leu Lys Thr Lys Ala Leu Ser Gln Glu Val Cys
100 105 110

Pro Asp Glu Ile Ala Trp Ile Leu His Asp Tyr Leu Lys Asn Arg Gly
115 120 125

Tyr Phe Tyr Asp Glu Lys Glu Thr Lys Glu Asp Phe Asp Gln Gln Thr
130 135 140

Val Glu Ser Met Pro Ser Tyr Lys Leu Asn Glu Phe Tyr Lys Lys Tyr
145 150 155 160

Gly Tyr Phe Lys Gly Ala Leu Ser Gln Pro Thr Glu Ser Glu Met Lys
165 170 175

Asp Asn Lys Asp Leu Lys Glu Ala Phe Phe Phe Asp Phe Ser Asn Lys
180 185 190

Glu Trp Leu Lys Glu Ile Asn Tyr Phe Phe Asn Val Gln Lys Asn Ile
195 200 205

Leu Ser Glu Thr Phe Ile Glu Glu Phe Lys Lys Ile Phe Ser Phe Thr
210 215 220

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Arg Asp Ile Ser Lys Gly Pro Gly Ser Asp Asn Met Pro Ser Pro Tyr
225                 230                 235                 240

Gly Ile Phe Gly Glu Phe Gly Asp Asn Gly Gln Gly Gly Arg Tyr Glu
                245                 250                 255

His Ile Trp Asp Lys Asn Ile Gly Lys Cys Ser Ile Phe Thr Asn Glu
            260                 265                 270

Gln Arg Ala Pro Lys Tyr Leu Pro Ser Ala Leu Ile Phe Asn Phe Leu
        275                 280                 285

Asn Glu Leu Ala Asn Ile Arg Leu Tyr Ser Thr Asp Lys Lys Asn Ile
    290                 295                 300

Gln Pro Leu Trp Lys Leu Ser Ser Val Asp Lys Leu Asn Ile Leu Leu
305                 310                 315                 320

Asn Leu Phe Asn Leu Pro Ile Ser Glu Lys Lys Lys Lys Leu Thr Ser
                325                 330                 335

Thr Asn Ile Asn Asp Ile Val Lys Lys Glu Ser Ile Lys Ser Ile Met
            340                 345                 350

Ile Ser Val Glu Asp Ile Asp Met Ile Lys Asp Glu Trp Ala Gly Lys
        355                 360                 365

Glu Pro Asn Val Tyr Gly Val Gly Leu Ser Gly Leu Asn Ile Glu Glu
    370                 375                 380

Ser Ala Lys Glu Asn Lys Phe Lys Phe Gln Asp Leu Lys Ile Leu Asn
385                 390                 395                 400

Val Leu Ile Asn Leu Leu Asp Asn Val Gly Ile Lys Phe Glu Phe Lys
                405                 410                 415

Asp Arg Asn Asp Ile Ile Lys Asn Leu Glu Leu Leu Asp Asn Leu Tyr
            420                 425                 430

Leu Phe Leu Ile Tyr Gln Lys Glu Ser Asn Asn Lys Asp Ser Ser Ile
        435                 440                 445

Asp Leu Phe Ile Ala Lys Asn Glu Ser Leu Asn Ile Glu Asn Leu Lys
    450                 455                 460

Leu Lys Leu Lys Glu Phe Leu Leu Gly Ala Gly Asn Glu Phe Glu Asn
465                 470                 475                 480

His Asn Ser Lys Thr His Ser Leu Ser Lys Lys Ala Ile Asp Glu Ile
                485                 490                 495
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```
Leu Pro Lys Leu Leu Asp Asn Asn Glu Gly Trp Asn Leu Glu Ala Ile
            500                 505                 510

Lys Asn Tyr Asp Glu Glu Ile Lys Ser Gln Ile Glu Asp Asn Ser Ser
        515                 520                 525

Leu Met Ala Lys Gln Asp Lys Lys Tyr Leu Asn Asp Asn Phe Leu Lys
    530                 535                 540

Asp Ala Ile Leu Pro Pro Asn Val Lys Val Thr Phe Gln Gln Ala Ile
545                 550                 555                 560

Leu Ile Phe Asn Lys Ile Ile Gln Lys Phe Ser Lys Asp Phe Glu Ile
                565                 570                 575

Asp Lys Val Val Ile Glu Leu Ala Arg Glu Met Thr Gln Asp Gln Glu
            580                 585                 590

Asn Asp Ala Leu Lys Gly Ile Ala Lys Ala Gln Lys Ser Lys Lys Ser
        595                 600                 605

Leu Val Glu Glu Arg Leu Glu Ala Asn Asn Ile Asp Lys Ser Val Phe
    610                 615                 620

Asn Asp Lys Tyr Glu Lys Leu Ile Tyr Lys Ile Phe Leu Trp Ile Ser
625                 630                 635                 640

Gln Asp Phe Lys Asp Pro Tyr Thr Gly Ala Gln Ile Ser Val Asn Glu
                645                 650                 655

Ile Val Asn Asn Lys Val Glu Ile Asp His Ile Ile Pro Tyr Ser Leu
            660                 665                 670

Cys Phe Asp Asp Ser Ser Ala Asn Lys Val Leu Val His Lys Gln Ser
        675                 680                 685

Asn Gln Glu Lys Ser Asn Ser Leu Pro Tyr Glu Tyr Ile Lys Gln Gly
    690                 695                 700

His Ser Gly Trp Asn Trp Asp Glu Phe Thr Lys Tyr Val Lys Arg Val
705                 710                 715                 720

Phe Val Asn Asn Val Asp Ser Ile Leu Ser Lys Lys Glu Arg Leu Lys
                725                 730                 735

Lys Ser Glu Asn Leu Leu Thr Ala Ser Tyr Asp Gly Tyr Asp Lys Leu
            740                 745                 750

Gly Phe Leu Ala Arg Asn Leu Asn Asp Thr Arg Tyr Ala Thr Ile Leu
        755                 760                 765
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Phe Arg Asp Gln Leu Asn Asn Tyr Ala Glu His His Leu Ile Asp Asn
    770                 775                 780

Lys Lys Met Phe Lys Val Ile Ala Met Asn Gly Ala Val Thr Ser Phe
785                 790                 795                 800

Ile Arg Lys Asn Met Ser Tyr Asp Asn Lys Leu Arg Leu Lys Asp Arg
                805                 810                 815

Ser Asp Phe Ser His His Ala Tyr Asp Ala Ala Ile Ile Ala Leu Phe
            820                 825                 830

Ser Asn Lys Thr Lys Thr Leu Tyr Asn Leu Ile Asp Pro Ser Leu Asn
        835                 840                 845

Gly Ile Ile Ser Lys Arg Ser Glu Gly Tyr Trp Val Ile Glu Asp Arg
    850                 855                 860

Tyr Thr Gly Glu Ile Lys Glu Leu Lys Lys Glu Asp Trp Thr Ser Ile
865                 870                 875                 880

Lys Asn Asn Val Gln Ala Arg Lys Ile Ala Lys Glu Ile Glu Glu Tyr
                885                 890                 895

Leu Ile Asp Leu Asp Asp Glu Val Phe Phe Ser Arg Lys Thr Lys Arg
            900                 905                 910

Lys Thr Asn Arg Gln Leu Tyr Asn Glu Thr Ile Tyr Gly Ile Ala Thr
        915                 920                 925

Lys Thr Asp Glu Asp Gly Ile Thr Asn Tyr Tyr Lys Lys Glu Lys Phe
    930                 935                 940

Ser Ile Leu Asp Asp Lys Asp Ile Tyr Leu Arg Leu Leu Arg Glu Arg
945                 950                 955                 960

Glu Lys Phe Val Ile Asn Gln Ser Asn Pro Glu Val Ile Asp Gln Ile
                965                 970                 975

Ile Glu Ile Ile Glu Ser Tyr Gly Lys Glu Asn Asn Ile Pro Ser Arg
            980                 985                 990

Asp Glu Ala Ile Asn Ile Lys Tyr  Thr Lys Asn Lys Ile  Asn Tyr Asn
        995                 1000                1005

Leu Tyr  Leu Lys Gln Tyr Met  Arg Ser Leu Thr Lys  Ser Leu Asp
    1010                1015                1020

Gln Phe  Ser Glu Glu Phe Ile  Asn Gln Met Ile Ala  Asn Lys Thr
    1025                1030                1035
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Phe Val Leu Tyr Asn Pro Thr Lys Asn Thr Thr Arg Lys Ile Lys
1040 1045 1050

Phe Leu Arg Leu Val Asn Asp Val Lys Ile Asn Asp Ile Arg Lys
1055 1060 1065

Asn Gln Val Ile Asn Lys Phe Asn Gly Lys Asn Asn Glu Pro Lys
1070 1075 1080

Ala Phe Tyr Glu Asn Ile Asn Ser Leu Gly Ala Ile Val Phe Lys
1085 1090 1095

Asn Ser Ala Asn Asn Phe Lys Thr Leu Ser Ile Asn Thr Gln Ile
1100 1105 1110

Ala Ile Phe Gly Asp Lys Asn Trp Asp Ile Glu Asp Phe Lys Thr
1115 1120 1125

Tyr Asn Met Glu Lys Ile Glu Lys Tyr Lys Glu Ile Tyr Gly Ile
1130 1135 1140

Asp Lys Thr Tyr Asn Phe His Ser Phe Ile Phe Pro Gly Thr Ile
1145 1150 1155

Leu Leu Asp Lys Gln Asn Lys Glu Phe Tyr Tyr Ile Ser Ser Ile
1160 1165 1170

Gln Thr Val Arg Asp Ile Ile Glu Ile Lys Phe Leu Asn Lys Ile
1175 1180 1185

Glu Phe Lys Asp Glu Asn Lys Asn Gln Asp Thr Ser Lys Thr Pro
1190 1195 1200

Lys Arg Leu Met Phe Gly Ile Lys Ser Ile Met Asn Asn Tyr Glu
1205 1210 1215

Gln Val Asp Ile Ser Pro Phe Gly Ile Asn Lys Lys Ile Phe Glu
1220 1225 1230

<210> 359
<211> 1119
<212> PRT
<213> Lactobacillus coryniformis

<400> 359

Met Gly Tyr Arg Ile Gly Leu Asp Val Gly Ile Thr Ser Thr Gly Tyr
1 5 10 15

Ala Val Leu Lys Thr Asp Lys Asn Gly Leu Pro Tyr Lys Ile Leu Thr
20 25 30

Leu Asp Ser Val Ile Tyr Pro Arg Ala Glu Asn Pro Gln Thr Gly Ala

35 40 45

Ser Leu Ala Glu Pro Arg Arg Ile Lys Arg Gly Leu Arg Arg Arg Thr
50 55 60

Arg Arg Thr Lys Phe Arg Lys Gln Arg Thr Gln Gln Leu Phe Ile His
65 70 75 80

Ser Gly Leu Leu Ser Lys Pro Glu Ile Glu Gln Ile Leu Ala Thr Pro
85 90 95

Gln Ala Lys Tyr Ser Val Tyr Glu Leu Arg Val Ala Gly Leu Asp Arg
100 105 110

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

His Arg Gly Phe Lys Ser Asn Arg Lys Ala Glu Leu Asn Pro Glu Asn
130 135 140

Glu Ala Asp Lys Lys Gln Met Gly Gln Leu Leu Asn Ser Ile Glu Glu
145 150 155 160

Ile Arg Lys Ala Ile Ala Glu Lys Gly Tyr Arg Thr Val Gly Glu Leu
165 170 175

Tyr Leu Lys Asp Pro Lys Tyr Asn Asp His Lys Arg Asn Lys Gly Tyr
180 185 190

Ile Asp Gly Tyr Leu Ser Thr Pro Asn Arg Gln Met Leu Val Asp Glu
195 200 205

Ile Lys Gln Ile Leu Asp Lys Gln Arg Glu Leu Gly Asn Glu Lys Leu
210 215 220

Thr Asp Glu Phe Tyr Ala Thr Tyr Leu Leu Gly Asp Glu Asn Arg Ala
225 230 235 240

Gly Ile Phe Gln Ala Gln Arg Asp Phe Asp Glu Gly Pro Gly Ala Gly
245 250 255

Pro Tyr Ala Gly Asp Gln Ile Lys Lys Met Val Gly Lys Asp Ile Phe
260 265 270

Glu Pro Thr Glu Asp Arg Ala Ala Lys Ala Thr Tyr Thr Phe Gln Tyr
275 280 285

Phe Asn Leu Leu Gln Lys Met Thr Ser Leu Asn Tyr Gln Asn Thr Thr
290 295 300

Gly Asp Thr Trp His Thr Leu Asn Gly Leu Asp Arg Gln Ala Ile Ile

305 310 315 320

Asp Ala Val Phe Ala Lys Ala Glu Lys Pro Thr Lys Thr Tyr Lys Pro
325 330 335

Thr Asp Phe Gly Glu Leu Arg Lys Leu Leu Lys Leu Pro Asp Asp Ala
340 345 350

Arg Phe Asn Leu Val Asn Tyr Gly Ser Leu Gln Thr Gln Lys Glu Ile
355 360 365

Glu Thr Val Glu Lys Lys Thr Arg Phe Val Asp Phe Lys Ala Tyr His
370 375 380

Asp Leu Val Lys Val Leu Pro Glu Glu Met Trp Gln Ser Arg Gln Leu
385 390 395 400

Leu Asp His Ile Gly Thr Ala Leu Thr Leu Tyr Ser Ser Asp Lys Arg
405 410 415

Arg Arg Arg Tyr Phe Ala Glu Glu Leu Asn Leu Pro Ala Glu Leu Ile
420 425 430

Glu Lys Leu Leu Pro Leu Asn Phe Ser Lys Phe Gly His Leu Ser Ile
435 440 445

Lys Ser Met Gln Asn Ile Ile Pro Tyr Leu Glu Met Gly Gln Val Tyr
450 455 460

Ser Glu Ala Thr Thr Asn Thr Gly Tyr Asp Phe Arg Lys Lys Gln Ile
465 470 475 480

Ser Lys Asp Thr Ile Arg Glu Glu Ile Thr Asn Pro Val Val Arg Arg
485 490 495

Ala Val Thr Lys Thr Ile Lys Ile Val Glu Gln Ile Ile Arg Arg Tyr
500 505 510

Gly Lys Pro Asp Gly Ile Asn Ile Glu Leu Ala Arg Glu Leu Gly Arg
515 520 525

Asn Phe Lys Glu Arg Gly Asp Ile Gln Lys Arg Gln Asp Lys Asn Arg
530 535 540

Gln Thr Asn Asp Lys Ile Ala Ala Glu Leu Thr Glu Leu Gly Ile Pro
545 550 555 560

Val Asn Gly Gln Asn Ile Ile Arg Tyr Lys Leu His Lys Glu Gln Asn
565 570 575

Gly Val Asp Pro Tyr Thr Gly Asp Gln Ile Pro Phe Glu Arg Ala Phe

580 585 590

Ser Glu Gly Tyr Glu Val Asp His Ile Ile Pro Tyr Ser Ile Ser Trp
595 600 605

Asp Asp Ser Tyr Thr Asn Lys Val Leu Thr Ser Ala Lys Cys Asn Arg
610 615 620

Glu Lys Gly Asn Arg Ile Pro Met Val Tyr Leu Ala Asn Asn Glu Gln
625 630 635 640

Arg Leu Asn Ala Leu Thr Asn Ile Ala Asp Asn Ile Ile Arg Asn Ser
645 650 655

Arg Lys Arg Gln Lys Leu Leu Lys Gln Lys Leu Ser Asp Glu Glu Leu
660 665 670

Lys Asp Trp Lys Gln Arg Asn Ile Asn Asp Thr Arg Phe Ile Thr Arg
675 680 685

Val Leu Tyr Asn Tyr Phe Arg Gln Ala Ile Glu Phe Asn Pro Glu Leu
690 695 700

Glu Lys Lys Gln Arg Val Leu Pro Leu Asn Gly Glu Val Thr Ser Lys
705 710 715 720

Ile Arg Ser Arg Trp Gly Phe Leu Lys Val Arg Glu Asp Gly Asp Leu
725 730 735

His His Ala Ile Asp Ala Thr Val Ile Ala Ala Ile Thr Pro Lys Phe
740 745 750

Ile Gln Gln Val Thr Lys Tyr Ser Gln His Gln Glu Val Lys Asn Asn
755 760 765

Gln Ala Leu Trp His Asp Ala Glu Ile Lys Asp Ala Glu Tyr Ala Ala
770 775 780

Glu Ala Gln Arg Met Asp Ala Asp Leu Phe Asn Lys Ile Phe Asn Gly
785 790 795 800

Phe Pro Leu Pro Trp Pro Glu Phe Leu Asp Glu Leu Leu Ala Arg Ile
805 810 815

Ser Asp Asn Pro Val Glu Met Met Lys Ser Arg Ser Trp Asn Thr Tyr
820 825 830

Thr Pro Ile Glu Ile Ala Lys Leu Lys Pro Val Phe Val Val Arg Leu
835 840 845

Ala Asn His Lys Ile Ser Gly Pro Ala His Leu Asp Thr Ile Arg Ser

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    850                 855                 860

Ala Lys Leu Phe Asp Glu Lys Gly Ile Val Leu Ser Arg Val Ser Ile
865                 870                 875                 880

Thr Lys Leu Lys Ile Asn Lys Lys Gly Gln Val Ala Thr Gly Asp Gly
                885                 890                 895

Ile Tyr Asp Pro Glu Asn Ser Asn Asn Gly Asp Lys Val Val Tyr Ser
            900                 905                 910

Ala Ile Arg Gln Ala Leu Glu Ala His Asn Gly Ser Gly Glu Leu Ala
        915                 920                 925

Phe Pro Asp Gly Tyr Leu Glu Tyr Val Asp His Gly Thr Lys Lys Leu
    930                 935                 940

Val Arg Lys Val Arg Val Ala Lys Lys Val Ser Leu Pro Val Arg Leu
945                 950                 955                 960

Lys Asn Lys Ala Ala Ala Asp Asn Gly Ser Met Val Arg Ile Asp Val
                965                 970                 975

Phe Asn Thr Gly Lys Lys Phe Val Phe Val Pro Ile Tyr Ile Lys Asp
            980                 985                 990

Thr Val Glu Gln Val Leu Pro Asn  Lys Ala Ile Ala Arg  Gly Lys Ser
        995                 1000                1005

Leu Trp  Tyr Gln Ile Thr Glu  Ser Asp Gln Phe Cys  Phe Ser Leu
    1010                1015                1020

Tyr Pro  Gly Asp Met Val His  Ile Glu Ser Lys Thr  Gly Ile Lys
    1025                1030                1035

Pro Lys  Tyr Ser Asn Lys Glu  Asn Asn Thr Ser Val  Val Pro Ile
    1040                1045                1050

Lys Asn  Phe Tyr Gly Tyr Phe  Asp Gly Ala Asp Ile  Ala Thr Ala
    1055                1060                1065

Ser Ile  Leu Val Arg Ala His  Asp Ser Ser Tyr Thr  Ala Arg Ser
    1070                1075                1080

Ile Gly  Ile Ala Gly Leu Leu  Lys Phe Glu Lys Tyr  Gln Val Asp
    1085                1090                1095

Tyr Phe  Gly Arg Tyr His Lys  Val His Glu Lys Lys  Arg Gln Leu
    1100                1105                1110

Phe Val  Lys Arg Asp Glu
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1115

<210> 360
<211> 1195
<212> PRT
<213> Elusimicrobium minutum

<400> 360

Met Gln Lys Asn Ile Asn Thr Lys Gln Asn His Ile Tyr Ile Lys Gln
1 5 10 15

Ala Gln Lys Ile Lys Glu Lys Leu Gly Asp Lys Pro Tyr Arg Ile Gly
20 25 30

Leu Asp Leu Gly Val Gly Ser Ile Gly Phe Ala Ile Val Ser Met Glu
35 40 45

Glu Asn Asp Gly Asn Val Leu Leu Pro Lys Glu Ile Ile Met Val Gly
50 55 60

Ser Arg Ile Phe Lys Ala Ser Ala Gly Ala Ala Asp Arg Lys Leu Ser
65 70 75 80

Arg Gly Gln Arg Asn Asn His Arg His Thr Arg Glu Arg Met Arg Tyr
85 90 95

Leu Trp Lys Val Leu Ala Glu Gln Lys Leu Ala Leu Pro Val Pro Ala
100 105 110

Asp Leu Asp Arg Lys Glu Asn Ser Ser Glu Gly Glu Thr Ser Ala Lys
115 120 125

Arg Phe Leu Gly Asp Val Leu Gln Lys Asp Ile Tyr Glu Leu Arg Val
130 135 140

Lys Ser Leu Asp Glu Arg Leu Ser Leu Gln Glu Leu Gly Tyr Val Leu
145 150 155 160

Tyr His Ile Ala Gly His Arg Gly Ser Ser Ala Ile Arg Thr Phe Glu
165 170 175

Asn Asp Ser Glu Glu Ala Gln Lys Glu Asn Thr Glu Asn Lys Lys Ile
180 185 190

Ala Gly Asn Ile Lys Arg Leu Met Ala Lys Lys Asn Tyr Arg Thr Tyr
195 200 205

Gly Glu Tyr Leu Tyr Lys Glu Phe Phe Glu Asn Lys Glu Lys His Lys
210 215 220

Arg Glu Lys Ile Ser Asn Ala Ala Asn Asn His Lys Phe Ser Pro Thr
225 230 235 240

```
Arg Asp Leu Val Ile Lys Glu Ala Glu Ala Ile Leu Lys Lys Gln Ala
                245                 250                 255

Gly Lys Asp Gly Phe His Lys Glu Leu Thr Glu Glu Tyr Ile Glu Lys
            260                 265                 270

Leu Thr Lys Ala Ile Gly Tyr Glu Ser Glu Lys Leu Ile Pro Glu Ser
        275                 280                 285

Gly Phe Cys Pro Tyr Leu Lys Asp Glu Lys Arg Leu Pro Ala Ser His
    290                 295                 300

Lys Leu Asn Glu Glu Arg Arg Leu Trp Glu Thr Leu Asn Asn Ala Arg
305                 310                 315                 320

Tyr Ser Asp Pro Ile Val Asp Ile Val Thr Gly Glu Ile Thr Gly Tyr
                325                 330                 335

Tyr Glu Lys Gln Phe Thr Lys Glu Gln Lys Gln Lys Leu Phe Asp Tyr
            340                 345                 350

Leu Leu Thr Gly Ser Glu Leu Thr Pro Ala Gln Thr Lys Lys Leu Leu
        355                 360                 365

Gly Leu Lys Asn Thr Asn Phe Glu Asp Ile Ile Leu Gln Gly Arg Asp
    370                 375                 380

Lys Lys Ala Gln Lys Ile Lys Gly Tyr Lys Leu Ile Lys Leu Glu Ser
385                 390                 395                 400

Met Pro Phe Trp Ala Arg Leu Ser Glu Ala Gln Gln Asp Ser Phe Leu
                405                 410                 415

Tyr Asp Trp Asn Ser Cys Pro Asp Glu Lys Leu Leu Thr Glu Lys Leu
            420                 425                 430

Ser Asn Glu Tyr His Leu Thr Glu Glu Glu Ile Asp Asn Ala Phe Asn
        435                 440                 445

Glu Ile Val Leu Ser Ser Ser Tyr Ala Pro Leu Gly Lys Ser Ala Met
    450                 455                 460

Leu Ile Ile Leu Glu Lys Ile Lys Asn Asp Leu Ser Tyr Thr Glu Ala
465                 470                 475                 480

Val Glu Glu Ala Leu Lys Glu Gly Lys Leu Thr Lys Glu Lys Gln Ala
                485                 490                 495

Ile Lys Asp Arg Leu Pro Tyr Tyr Gly Ala Val Leu Gln Glu Ser Thr
            500                 505                 510
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```
Gln Lys Ile Ile Ala Lys Gly Phe Ser Pro Gln Phe Lys Asp Lys Gly
        515                 520                 525

Tyr Lys Thr Pro His Thr Asn Lys Tyr Glu Leu Glu Tyr Gly Arg Ile
    530                 535                 540

Ala Asn Pro Val Val His Gln Thr Leu Asn Glu Leu Arg Lys Leu Val
545                 550                 555                 560

Asn Glu Ile Ile Asp Ile Leu Gly Lys Lys Pro Cys Glu Ile Gly Leu
                565                 570                 575

Glu Thr Ala Arg Glu Leu Lys Lys Ser Ala Glu Asp Arg Ser Lys Leu
            580                 585                 590

Ser Arg Glu Gln Asn Asp Asn Glu Ser Asn Arg Asn Arg Ile Tyr Glu
        595                 600                 605

Ile Tyr Ile Arg Pro Gln Gln Gln Val Ile Ile Thr Arg Arg Glu Asn
    610                 615                 620

Pro Arg Asn Tyr Ile Leu Lys Phe Glu Leu Leu Glu Glu Gln Lys Ser
625                 630                 635                 640

Gln Cys Pro Phe Cys Gly Gly Gln Ile Ser Pro Asn Asp Ile Ile Asn
                645                 650                 655

Asn Gln Ala Asp Ile Glu His Leu Phe Pro Ile Ala Glu Ser Glu Asp
            660                 665                 670

Asn Gly Arg Asn Asn Leu Val Ile Ser His Ser Ala Cys Asn Ala Asp
        675                 680                 685

Lys Ala Lys Arg Ser Pro Trp Ala Ala Phe Ala Ser Ala Ala Lys Asp
    690                 695                 700

Ser Lys Tyr Asp Tyr Asn Arg Ile Leu Ser Asn Val Lys Glu Asn Ile
705                 710                 715                 720

Pro His Lys Ala Trp Arg Phe Asn Gln Gly Ala Phe Glu Lys Phe Ile
                725                 730                 735

Glu Asn Lys Pro Met Ala Ala Arg Phe Lys Thr Asp Asn Ser Tyr Ile
            740                 745                 750

Ser Lys Val Ala His Lys Tyr Leu Ala Cys Leu Phe Glu Lys Pro Asn
        755                 760                 765

Ile Ile Cys Val Lys Gly Ser Leu Thr Ala Gln Leu Arg Met Ala Trp
    770                 775                 780
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```
Gly Leu Gln Gly Leu Met Ile Pro Phe Ala Lys Gln Leu Ile Thr Glu
785                 790                 795                 800

Lys Glu Ser Glu Ser Phe Asn Lys Asp Val Asn Ser Asn Lys Lys Ile
                805                 810                 815

Arg Leu Asp Asn Arg His His Ala Leu Asp Ala Ile Val Ile Ala Tyr
            820                 825                 830

Ala Ser Arg Gly Tyr Gly Asn Leu Leu Asn Lys Met Ala Gly Lys Asp
        835                 840                 845

Tyr Lys Ile Asn Tyr Ser Glu Arg Asn Trp Leu Ser Lys Ile Leu Leu
    850                 855                 860

Pro Pro Asn Asn Ile Val Trp Glu Asn Ile Asp Ala Asp Leu Glu Ser
865                 870                 875                 880

Phe Glu Ser Ser Val Lys Thr Ala Leu Lys Asn Ala Phe Ile Ser Val
                885                 890                 895

Lys His Asp His Ser Asp Asn Gly Glu Leu Val Lys Gly Thr Met Tyr
            900                 905                 910

Lys Ile Phe Tyr Ser Glu Arg Gly Tyr Thr Leu Thr Thr Tyr Lys Lys
        915                 920                 925

Leu Ser Ala Leu Lys Leu Thr Asp Pro Gln Lys Lys Lys Thr Pro Lys
    930                 935                 940

Asp Phe Leu Glu Thr Ala Leu Leu Lys Phe Lys Gly Arg Glu Ser Glu
945                 950                 955                 960

Met Lys Asn Glu Lys Ile Lys Ser Ala Ile Glu Asn Asn Lys Arg Leu
                965                 970                 975

Phe Asp Val Ile Gln Asp Asn Leu Glu Lys Ala Lys Lys Leu Leu Glu
            980                 985                 990

Glu Glu Asn Glu Lys Ser Lys Ala  Glu Gly Lys Lys Glu  Lys Asn Ile
        995                 1000                1005

Asn Asp  Ala Ser Ile Tyr Gln  Lys Ala Ile Ser Leu  Ser Gly Asp
    1010                1015                1020

Lys Tyr  Val Gln Leu Ser Lys  Lys Glu Pro Gly Lys  Phe Phe Ala
    1025                1030                1035

Ile Ser  Lys Pro Thr Pro Thr  Thr Thr Gly Tyr Gly  Tyr Asp Thr
    1040                1045                1050
```

Gly Asp Ser Leu Cys Val Asp Leu Tyr Tyr Asp Asn Lys Gly Lys
1055 1060 1065

Leu Cys Gly Glu Ile Ile Arg Lys Ile Asp Ala Gln Gln Lys Asn
1070 1075 1080

Pro Leu Lys Tyr Lys Glu Gln Gly Phe Thr Leu Phe Glu Arg Ile
1085 1090 1095

Tyr Gly Gly Asp Ile Leu Glu Val Asp Phe Asp Ile His Ser Asp
1100 1105 1110

Lys Asn Ser Phe Arg Asn Asn Thr Gly Ser Ala Pro Glu Asn Arg
1115 1120 1125

Val Phe Ile Lys Val Gly Thr Phe Thr Glu Ile Thr Asn Asn Asn
1130 1135 1140

Ile Gln Ile Trp Phe Gly Asn Ile Ile Lys Ser Thr Gly Gly Gln
1145 1150 1155

Asp Asp Ser Phe Thr Ile Asn Ser Met Gln Gln Tyr Asn Pro Arg
1160 1165 1170

Lys Leu Ile Leu Ser Ser Cys Gly Phe Ile Lys Tyr Arg Ser Pro
1175 1180 1185

Ile Leu Lys Asn Lys Glu Gly
1190 1195

<210> 361
<211> 1082
<212> PRT
<213> Neisseria meningitidis

<400> 361

Met Ala Ala Phe Lys Pro Asn Pro Ile Asn Tyr Ile Leu Gly Leu Asp
1 5 10 15

Ile Gly Ile Ala Ser Val Gly Trp Ala Met Val Glu Ile Asp Glu Asp
20 25 30

Glu Asn Pro Ile Cys Leu Ile Asp Leu Gly Val Arg Val Phe Glu Arg
35 40 45

Ala Glu Val Pro Lys Thr Gly Asp Ser Leu Ala Met Ala Arg Arg Leu
50 55 60

Ala Arg Ser Val Arg Arg Leu Thr Arg Arg Arg Ala His Arg Leu Leu
65 70 75 80

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Arg Ala Arg Arg Leu Leu Lys Arg Glu Gly Val Leu Gln Ala Ala Asp
                85                  90                  95

Phe Asp Glu Asn Gly Leu Ile Lys Ser Leu Pro Asn Thr Pro Trp Gln
            100                 105                 110

Leu Arg Ala Ala Ala Leu Asp Arg Lys Leu Thr Pro Leu Glu Trp Ser
        115                 120                 125

Ala Val Leu Leu His Leu Ile Lys His Arg Gly Tyr Leu Ser Gln Arg
    130                 135                 140

Lys Asn Glu Gly Glu Thr Ala Asp Lys Glu Leu Gly Ala Leu Leu Lys
145                 150                 155                 160

Gly Val Ala Asp Asn Ala His Ala Leu Gln Thr Gly Asp Phe Arg Thr
                165                 170                 175

Pro Ala Glu Leu Ala Leu Asn Lys Phe Glu Lys Glu Ser Gly His Ile
            180                 185                 190

Arg Asn Gln Arg Gly Asp Tyr Ser His Thr Phe Ser Arg Lys Asp Leu
        195                 200                 205

Gln Ala Glu Leu Ile Leu Leu Phe Glu Lys Gln Lys Glu Phe Gly Asn
    210                 215                 220

Pro His Val Ser Gly Gly Leu Lys Glu Gly Ile Glu Thr Leu Leu Met
225                 230                 235                 240

Thr Gln Arg Pro Ala Leu Ser Gly Asp Ala Val Gln Lys Met Leu Gly
                245                 250                 255

His Cys Thr Phe Glu Pro Ala Glu Pro Lys Ala Ala Lys Asn Thr Tyr
            260                 265                 270

Thr Ala Glu Arg Phe Ile Trp Leu Thr Lys Leu Asn Asn Leu Arg Ile
        275                 280                 285

Leu Glu Gln Gly Ser Glu Arg Pro Leu Thr Asp Thr Glu Arg Ala Thr
    290                 295                 300

Leu Met Asp Glu Pro Tyr Arg Lys Ser Lys Leu Thr Tyr Ala Gln Ala
305                 310                 315                 320

Arg Lys Leu Leu Gly Leu Glu Asp Thr Ala Phe Phe Lys Gly Leu Arg
                325                 330                 335

Tyr Gly Lys Asp Asn Ala Glu Ala Ser Thr Leu Met Glu Met Lys Ala
            340                 345                 350
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Tyr His Ala Ile Ser Arg Ala Leu Glu Lys Glu Gly Leu Lys Asp Lys
        355                 360                 365

Lys Ser Pro Leu Asn Leu Ser Pro Glu Leu Gln Asp Glu Ile Gly Thr
    370                 375                 380

Ala Phe Ser Leu Phe Lys Thr Asp Glu Asp Ile Thr Gly Arg Leu Lys
385                 390                 395                 400

Asp Arg Ile Gln Pro Glu Ile Leu Glu Ala Leu Leu Lys His Ile Ser
                405                 410                 415

Phe Asp Lys Phe Val Gln Ile Ser Leu Lys Ala Leu Arg Arg Ile Val
            420                 425                 430

Pro Leu Met Glu Gln Gly Lys Arg Tyr Asp Glu Ala Cys Ala Glu Ile
        435                 440                 445

Tyr Gly Asp His Tyr Gly Lys Lys Asn Thr Glu Glu Lys Ile Tyr Leu
    450                 455                 460

Pro Pro Ile Pro Ala Asp Glu Ile Arg Asn Pro Val Val Leu Arg Ala
465                 470                 475                 480

Leu Ser Gln Ala Arg Lys Val Ile Asn Gly Val Val Arg Arg Tyr Gly
                485                 490                 495

Ser Pro Ala Arg Ile His Ile Glu Thr Ala Arg Glu Val Gly Lys Ser
            500                 505                 510

Phe Lys Asp Arg Lys Glu Ile Glu Lys Arg Gln Glu Glu Asn Arg Lys
        515                 520                 525

Asp Arg Glu Lys Ala Ala Ala Lys Phe Arg Glu Tyr Phe Pro Asn Phe
    530                 535                 540

Val Gly Glu Pro Lys Ser Lys Asp Ile Leu Lys Leu Arg Leu Tyr Glu
545                 550                 555                 560

Gln Gln His Gly Lys Cys Leu Tyr Ser Gly Lys Glu Ile Asn Leu Gly
                565                 570                 575

Arg Leu Asn Glu Lys Gly Tyr Val Glu Ile Asp His Ala Leu Pro Phe
            580                 585                 590

Ser Arg Thr Trp Asp Asp Ser Phe Asn Asn Lys Val Leu Val Leu Gly
        595                 600                 605

Ser Glu Asn Gln Asn Lys Gly Asn Gln Thr Pro Tyr Glu Tyr Phe Asn
    610                 615                 620
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Gly Lys Asp Asn Ser Arg Glu Trp Gln Glu Phe Lys Ala Arg Val Glu
625                 630                 635                 640

Thr Ser Arg Phe Pro Arg Ser Lys Lys Gln Arg Ile Leu Leu Gln Lys
                645                 650                 655

Phe Asp Glu Asp Gly Phe Lys Glu Arg Asn Leu Asn Asp Thr Arg Tyr
            660                 665                 670

Val Asn Arg Phe Leu Cys Gln Phe Val Ala Asp Arg Met Arg Leu Thr
        675                 680                 685

Gly Lys Gly Lys Lys Arg Val Phe Ala Ser Asn Gly Gln Ile Thr Asn
    690                 695                 700

Leu Leu Arg Gly Phe Trp Gly Leu Arg Lys Val Arg Ala Glu Asn Asp
705                 710                 715                 720

Arg His His Ala Leu Asp Ala Val Val Val Ala Cys Ser Thr Val Ala
                725                 730                 735

Met Gln Gln Lys Ile Thr Arg Phe Val Arg Tyr Lys Glu Met Asn Ala
            740                 745                 750

Phe Asp Gly Lys Thr Ile Asp Lys Glu Thr Gly Glu Val Leu His Gln
        755                 760                 765

Lys Thr His Phe Pro Gln Pro Trp Glu Phe Phe Ala Gln Glu Val Met
    770                 775                 780

Ile Arg Val Phe Gly Lys Pro Asp Gly Lys Pro Glu Phe Glu Glu Ala
785                 790                 795                 800

Asp Thr Pro Glu Lys Leu Arg Thr Leu Leu Ala Glu Lys Leu Ser Ser
                805                 810                 815

Arg Pro Glu Ala Val His Glu Tyr Val Thr Pro Leu Phe Val Ser Arg
            820                 825                 830

Ala Pro Asn Arg Lys Met Ser Gly Gln Gly His Met Glu Thr Val Lys
        835                 840                 845

Ser Ala Lys Arg Leu Asp Glu Gly Val Ser Val Leu Arg Val Pro Leu
    850                 855                 860

Thr Gln Leu Lys Leu Lys Asp Leu Glu Lys Met Val Asn Arg Glu Arg
865                 870                 875                 880

Glu Pro Lys Leu Tyr Glu Ala Leu Lys Ala Arg Leu Glu Ala His Lys
                885                 890                 895
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Asp Asp Pro Ala Lys Ala Phe Ala Glu Pro Phe Tyr Lys Tyr Asp Lys
900 905 910

Ala Gly Asn Arg Thr Gln Gln Val Lys Ala Val Arg Val Glu Gln Val
915 920 925

Gln Lys Thr Gly Val Trp Val Arg Asn His Asn Gly Ile Ala Asp Asn
930 935 940

Ala Thr Met Val Arg Val Asp Val Phe Glu Lys Gly Asp Lys Tyr Tyr
945 950 955 960

Leu Val Pro Ile Tyr Ser Trp Gln Val Ala Lys Gly Ile Leu Pro Asp
965 970 975

Arg Ala Val Val Gln Gly Lys Asp Glu Glu Asp Trp Gln Leu Ile Asp
980 985 990

Asp Ser Phe Asn Phe Lys Phe Ser Leu His Pro Asn Asp Leu Val Glu
995 1000 1005

Val Ile Thr Lys Lys Ala Arg Met Phe Gly Tyr Phe Ala Ser Cys
1010 1015 1020

His Arg Gly Thr Gly Asn Ile Asn Ile Arg Ile His Asp Leu Asp
1025 1030 1035

His Lys Ile Gly Lys Asn Gly Ile Leu Glu Gly Ile Gly Val Lys
1040 1045 1050

Thr Ala Leu Ser Phe Gln Lys Tyr Gln Ile Asp Glu Leu Gly Lys
1055 1060 1065

Glu Ile Arg Pro Cys Arg Leu Lys Lys Arg Pro Pro Val Arg
1070 1075 1080

<210> 362
<211> 1056
<212> PRT
<213> Pasteurella multocida

<400> 362

Met Gln Thr Thr Asn Leu Ser Tyr Ile Leu Gly Leu Asp Leu Gly Ile
1 5 10 15

Ala Ser Val Gly Trp Ala Val Val Glu Ile Asn Glu Asn Glu Asp Pro
20 25 30

Ile Gly Leu Ile Asp Val Gly Val Arg Ile Phe Glu Arg Ala Glu Val
35 40 45

```
Pro Lys Thr Gly Glu Ser Leu Ala Leu Ser Arg Arg Leu Ala Arg Ser
    50                  55                  60

Thr Arg Arg Leu Ile Arg Arg Arg Ala His Arg Leu Leu Leu Ala Lys
65                  70                  75                  80

Arg Phe Leu Lys Arg Glu Gly Ile Leu Ser Thr Ile Asp Leu Glu Lys
                85                  90                  95

Gly Leu Pro Asn Gln Ala Trp Glu Leu Arg Val Ala Gly Leu Glu Arg
            100                 105                 110

Arg Leu Ser Ala Ile Glu Trp Gly Ala Val Leu Leu His Leu Ile Lys
        115                 120                 125

His Arg Gly Tyr Leu Ser Lys Arg Lys Asn Glu Ser Gln Thr Asn Asn
    130                 135                 140

Lys Glu Leu Gly Ala Leu Leu Ser Gly Val Ala Gln Asn His Gln Leu
145                 150                 155                 160

Leu Gln Ser Asp Asp Tyr Arg Thr Pro Ala Glu Leu Ala Leu Lys Lys
                165                 170                 175

Phe Ala Lys Glu Glu Gly His Ile Arg Asn Gln Arg Gly Ala Tyr Thr
            180                 185                 190

His Thr Phe Asn Arg Leu Asp Leu Leu Ala Glu Leu Asn Leu Leu Phe
        195                 200                 205

Ala Gln Gln His Gln Phe Gly Asn Pro His Cys Lys Glu His Ile Gln
    210                 215                 220

Gln Tyr Met Thr Glu Leu Leu Met Trp Gln Lys Pro Ala Leu Ser Gly
225                 230                 235                 240

Glu Ala Ile Leu Lys Met Leu Gly Lys Cys Thr His Glu Lys Asn Glu
                245                 250                 255

Phe Lys Ala Ala Lys His Thr Tyr Ser Ala Glu Arg Phe Val Trp Leu
            260                 265                 270

Thr Lys Leu Asn Asn Leu Arg Ile Leu Glu Asp Gly Ala Glu Arg Ala
        275                 280                 285

Leu Asn Glu Glu Glu Arg Gln Leu Leu Ile Asn His Pro Tyr Glu Lys
    290                 295                 300

Ser Lys Leu Thr Tyr Ala Gln Val Arg Lys Leu Leu Gly Leu Ser Glu
305                 310                 315                 320
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Gln Ala Ile Phe Lys His Leu Arg Tyr Ser Lys Glu Asn Ala Glu Ser
                325                 330                 335

Ala Thr Phe Met Glu Leu Lys Ala Trp His Ala Ile Arg Lys Ala Leu
            340                 345                 350

Glu Asn Gln Gly Leu Lys Asp Thr Trp Gln Asp Leu Ala Lys Lys Pro
        355                 360                 365

Asp Leu Leu Asp Glu Ile Gly Thr Ala Phe Ser Leu Tyr Lys Thr Asp
    370                 375                 380

Glu Asp Ile Gln Gln Tyr Leu Thr Asn Lys Val Pro Asn Ser Val Ile
385                 390                 395                 400

Asn Ala Leu Leu Val Ser Leu Asn Phe Asp Lys Phe Ile Glu Leu Ser
                405                 410                 415

Leu Lys Ser Leu Arg Lys Ile Leu Pro Leu Met Glu Gln Gly Lys Arg
            420                 425                 430

Tyr Asp Gln Ala Cys Arg Glu Ile Tyr Gly His His Tyr Gly Glu Ala
        435                 440                 445

Asn Gln Lys Thr Ser Gln Leu Leu Pro Ala Ile Pro Ala Gln Glu Ile
    450                 455                 460

Arg Asn Pro Val Val Leu Arg Thr Leu Ser Gln Ala Arg Lys Val Ile
465                 470                 475                 480

Asn Ala Ile Ile Arg Gln Tyr Gly Ser Pro Ala Arg Val His Ile Glu
                485                 490                 495

Thr Gly Arg Glu Leu Gly Lys Ser Phe Lys Glu Arg Arg Glu Ile Gln
            500                 505                 510

Lys Gln Gln Glu Asp Asn Arg Thr Lys Arg Glu Ser Ala Val Gln Lys
        515                 520                 525

Phe Lys Glu Leu Phe Ser Asp Phe Ser Ser Glu Pro Lys Ser Lys Asp
    530                 535                 540

Ile Leu Lys Phe Arg Leu Tyr Glu Gln Gln His Gly Lys Cys Leu Tyr
545                 550                 555                 560

Ser Gly Lys Glu Ile Asn Ile His Arg Leu Asn Glu Lys Gly Tyr Val
                565                 570                 575

Glu Ile Asp His Ala Leu Pro Phe Ser Arg Thr Trp Asp Asp Ser Phe
            580                 585                 590
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```
Asn Asn Lys Val Leu Val Leu Ala Ser Glu Asn Gln Asn Lys Gly Asn
        595                 600                 605

Gln Thr Pro Tyr Glu Trp Leu Gln Gly Lys Ile Asn Ser Glu Arg Trp
    610                 615                 620

Lys Asn Phe Val Ala Leu Val Leu Gly Ser Gln Cys Ser Ala Ala Lys
625                 630                 635                 640

Lys Gln Arg Leu Leu Thr Gln Val Ile Asp Asp Asn Lys Phe Ile Asp
                645                 650                 655

Arg Asn Leu Asn Asp Thr Arg Tyr Ile Ala Arg Phe Leu Ser Asn Tyr
            660                 665                 670

Ile Gln Glu Asn Leu Leu Leu Val Gly Lys Asn Lys Lys Asn Val Phe
        675                 680                 685

Thr Pro Asn Gly Gln Ile Thr Ala Leu Leu Arg Ser Arg Trp Gly Leu
    690                 695                 700

Ile Lys Ala Arg Glu Asn Asn Asn Arg His His Ala Leu Asp Ala Ile
705                 710                 715                 720

Val Val Ala Cys Ala Thr Pro Ser Met Gln Gln Lys Ile Thr Arg Phe
                725                 730                 735

Ile Arg Phe Lys Glu Val His Pro Tyr Lys Ile Glu Asn Arg Tyr Glu
            740                 745                 750

Met Val Asp Gln Glu Ser Gly Glu Ile Ile Ser Pro His Phe Pro Glu
        755                 760                 765

Pro Trp Ala Tyr Phe Arg Gln Glu Val Asn Ile Arg Val Phe Asp Asn
    770                 775                 780

His Pro Asp Thr Val Leu Lys Glu Met Leu Pro Asp Arg Pro Gln Ala
785                 790                 795                 800

Asn His Gln Phe Val Gln Pro Leu Phe Val Ser Arg Ala Pro Thr Arg
                805                 810                 815

Lys Met Ser Gly Gln Gly His Met Glu Thr Ile Lys Ser Ala Lys Arg
            820                 825                 830

Leu Ala Glu Gly Ile Ser Val Leu Arg Ile Pro Leu Thr Gln Leu Lys
        835                 840                 845

Pro Asn Leu Leu Glu Asn Met Val Asn Lys Glu Arg Glu Pro Ala Leu
    850                 855                 860
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Tyr Ala Gly Leu Lys Ala Arg Leu Ala Glu Phe Asn Gln Asp Pro Ala
865 870 875 880

Lys Ala Phe Ala Thr Pro Phe Tyr Lys Gln Gly Gly Gln Gln Val Lys
885 890 895

Ala Ile Arg Val Glu Gln Val Gln Lys Ser Gly Val Leu Val Arg Glu
900 905 910

Asn Asn Gly Val Ala Asp Asn Ala Ser Ile Val Arg Thr Asp Val Phe
915 920 925

Ile Lys Asn Asn Lys Phe Phe Leu Val Pro Ile Tyr Thr Trp Gln Val
930 935 940

Ala Lys Gly Ile Leu Pro Asn Lys Ala Ile Val Ala His Lys Asn Glu
945 950 955 960

Asp Glu Trp Glu Glu Met Asp Glu Gly Ala Lys Phe Lys Phe Ser Leu
965 970 975

Phe Pro Asn Asp Leu Val Glu Leu Lys Thr Lys Lys Glu Tyr Phe Phe
980 985 990

Gly Tyr Tyr Ile Gly Leu Asp Arg Ala Thr Gly Asn Ile Ser Leu Lys
995 1000 1005

Glu His Asp Gly Glu Ile Ser Lys Gly Lys Asp Gly Val Tyr Arg
1010 1015 1020

Val Gly Val Lys Leu Ala Leu Ser Phe Glu Lys Tyr Gln Val Asp
1025 1030 1035

Glu Leu Gly Lys Asn Arg Gln Ile Cys Arg Pro Gln Gln Arg Gln
1040 1045 1050

Pro Val Arg
1055

<210> 363
<211> 1059
<212> PRT
<213> Rhodovulum sp.

<400> 363

Met Gly Ile Arg Phe Ala Phe Asp Leu Gly Thr Asn Ser Ile Gly Trp
1 5 10 15

Ala Val Trp Arg Thr Gly Pro Gly Val Phe Gly Glu Asp Thr Ala Ala
20 25 30

Ser Leu Asp Gly Ser Gly Val Leu Ile Phe Lys Asp Gly Arg Asn Pro

35 40 45

Lys Asp Gly Gln Ser Leu Ala Thr Met Arg Arg Val Pro Arg Gln Ser
50 55 60

Arg Lys Arg Arg Asp Arg Phe Val Leu Arg Arg Arg Asp Leu Leu Ala
65 70 75 80

Ala Leu Arg Lys Ala Gly Leu Phe Pro Val Asp Val Glu Glu Gly Arg
85 90 95

Arg Leu Ala Ala Thr Asp Pro Tyr His Leu Arg Ala Lys Ala Leu Asp
100 105 110

Glu Ser Leu Thr Pro His Glu Met Gly Arg Val Ile Phe His Leu Asn
115 120 125

Gln Arg Arg Gly Phe Arg Ser Asn Arg Lys Ala Asp Arg Gln Asp Arg
130 135 140

Glu Lys Gly Lys Ile Ala Glu Gly Ser Lys Arg Leu Ala Glu Thr Leu
145 150 155 160

Ala Ala Thr Asn Cys Arg Thr Leu Gly Glu Phe Leu Trp Ser Arg His
165 170 175

Arg Gly Thr Pro Arg Thr Arg Ser Pro Thr Arg Ile Arg Met Glu Gly
180 185 190

Glu Gly Ala Lys Ala Leu Tyr Ala Phe Tyr Pro Thr Arg Glu Met Val
195 200 205

Arg Ala Glu Phe Glu Arg Leu Trp Thr Ala Gln Ser Arg Phe Ala Pro
210 215 220

Asp Leu Leu Thr Pro Glu Arg His Glu Glu Ile Ala Gly Ile Leu Phe
225 230 235 240

Arg Gln Arg Asp Leu Ala Pro Pro Lys Ile Gly Cys Cys Thr Phe Glu
245 250 255

Pro Ser Glu Arg Arg Leu Pro Arg Ala Leu Pro Ser Val Glu Ala Arg
260 265 270

Gly Ile Tyr Glu Arg Leu Ala His Leu Arg Ile Thr Thr Gly Pro Val
275 280 285

Ser Asp Arg Gly Leu Thr Arg Pro Glu Arg Asp Val Leu Ala Ser Ala
290 295 300

Leu Leu Ala Gly Lys Ser Leu Thr Phe Lys Ala Val Arg Lys Thr Leu

305 310 315 320

Lys Ile Leu Pro His Ala Leu Val Asn Phe Glu Glu Ala Gly Glu Lys
325 330 335

Gly Leu Asp Gly Ala Leu Thr Ala Lys Leu Leu Ser Lys Pro Asp His
340 345 350

Tyr Gly Ala Ala Trp His Gly Leu Ser Phe Ala Glu Lys Asp Thr Phe
355 360 365

Val Gly Lys Leu Leu Asp Glu Ala Asp Glu Glu Arg Leu Ile Arg Arg
370 375 380

Leu Val Thr Glu Asn Arg Leu Ser Glu Asp Ala Ala Arg Arg Cys Ala
385 390 395 400

Ser Ile Pro Leu Ala Asp Gly Tyr Gly Arg Leu Gly Arg Thr Ala Asn
405 410 415

Thr Glu Ile Leu Ala Ala Leu Val Glu Glu Thr Asp Glu Thr Gly Thr
420 425 430

Val Val Thr Tyr Ala Glu Ala Val Arg Arg Ala Gly Glu Arg Thr Gly
435 440 445

Arg Asn Trp His His Ser Asp Glu Arg Asp Gly Val Ile Leu Asp Arg
450 455 460

Leu Pro Tyr Tyr Gly Glu Ile Leu Gln Arg His Val Val Pro Gly Ser
465 470 475 480

Gly Glu Pro Glu Glu Lys Asn Glu Ala Ala Arg Trp Gly Arg Leu Ala
485 490 495

Asn Pro Thr Val His Ile Gly Leu Asn Gln Leu Arg Lys Val Val Asn
500 505 510

Arg Leu Ile Ala Ala His Gly Arg Pro Asp Gln Ile Val Val Glu Leu
515 520 525

Ala Arg Glu Leu Lys Leu Asn Arg Glu Gln Lys Glu Arg Leu Asp Arg
530 535 540

Glu Asn Arg Lys Asn Arg Glu Glu Asn Glu Arg Arg Thr Ala Ile Leu
545 550 555 560

Ala Glu His Gly Gln Arg Asp Thr Ala Glu Asn Lys Ile Arg Leu Arg
565 570 575

Leu Phe Glu Glu Gln Ala Arg Ala Asn Ala Gly Ile Ala Leu Cys Pro

580 585 590

Tyr Thr Gly Arg Ala Ile Gly Ile Ala Glu Leu Phe Thr Ser Glu Val
595 600 605

Glu Ile Asp His Ile Leu Pro Val Ser Leu Thr Leu Asp Asp Ser Leu
610 615 620

Ala Asn Arg Val Leu Cys Arg Arg Glu Ala Asn Arg Glu Lys Arg Arg
625 630 635 640

Gln Thr Pro Phe Gln Ala Phe Gly Ala Thr Pro Ala Trp Asn Asp Ile
645 650 655

Val Ala Arg Ala Ala Lys Leu Pro Pro Asn Lys Arg Trp Arg Phe Asp
660 665 670

Pro Ala Ala Leu Glu Arg Phe Glu Arg Glu Gly Gly Phe Leu Gly Arg
675 680 685

Gln Leu Asn Glu Thr Lys Tyr Leu Ser Arg Leu Ala Lys Ile Tyr Leu
690 695 700

Gly Lys Ile Cys Asp Pro Asp Arg Val Tyr Val Thr Pro Gly Thr Leu
705 710 715 720

Thr Gly Leu Leu Arg Ala Arg Trp Gly Leu Asn Ser Ile Leu Ser Asp
725 730 735

Ser Asn Phe Lys Asn Arg Ser Asp His Arg His His Ala Val Asp Ala
740 745 750

Val Val Ile Gly Val Leu Thr Arg Gly Met Ile Gln Arg Ile Ala His
755 760 765

Asp Ala Ala Arg Ala Glu Asp Gln Asp Leu Asp Arg Val Phe Arg Asp
770 775 780

Val Pro Val Pro Phe Glu Asp Phe Arg Asp His Val Arg Glu Arg Val
785 790 795 800

Ser Thr Ile Thr Val Ala Val Lys Pro Glu His Gly Lys Gly Gly Ala
805 810 815

Leu His Glu Asp Thr Ser Tyr Gly Leu Val Pro Asp Thr Asp Pro Asn
820 825 830

Ala Ala Leu Gly Asn Leu Val Val Arg Lys Pro Ile Arg Ser Leu Thr
835 840 845

Ala Gly Glu Val Asp Arg Val Arg Asp Arg Ala Leu Arg Ala Arg Leu

850 855 860

Gly Ala Leu Ala Ala Pro Phe Arg Asp Glu Ser Gly Arg Val Arg Asp
865 870 875 880

Ala Lys Gly Leu Ala Gln Ala Leu Glu Ala Phe Gly Ala Glu Asn Gly
885 890 895

Ile Arg Arg Val Arg Ile Leu Lys Pro Asp Ala Ser Val Val Thr Ile
900 905 910

Ala Asp Arg Arg Thr Gly Val Pro Tyr Arg Ala Val Ala Pro Gly Glu
915 920 925

Asn His His Val Asp Ile Val Gln Met Arg Asp Gly Ser Trp Arg Gly
930 935 940

Phe Ala Ala Ser Val Phe Glu Val Asn Arg Pro Gly Trp Arg Pro Glu
945 950 955 960

Trp Glu Val Lys Lys Leu Gly Gly Lys Leu Val Met Arg Leu His Lys
965 970 975

Gly Asp Met Val Glu Leu Ser Asp Lys Asp Gly Gln Arg Arg Val Lys
980 985 990

Val Val Gln Gln Ile Glu Ile Ser Ala Asn Arg Val Arg Leu Ser Pro
995 1000 1005

His Asn Asp Gly Gly Lys Leu Gln Asp Arg His Ala Asp Ala Asp
1010 1015 1020

Asp Pro Phe Arg Trp Asp Leu Ala Thr Ile Pro Leu Leu Lys Asp
1025 1030 1035

Arg Gly Cys Val Ala Val Arg Val Asp Pro Ile Gly Val Val Thr
1040 1045 1050

Leu Arg Arg Ser Asn Val
1055

<210> 364
<211> 1096
<212> PRT
<213> Eubacterium dolichum

<400> 364

Met Met Glu Val Phe Met Gly Arg Leu Val Leu Gly Leu Asp Ile Gly
1 5 10 15

Ile Thr Ser Val Gly Phe Gly Ile Ile Asp Leu Asp Glu Ser Glu Ile
20 25 30

```
Val Asp Tyr Gly Val Arg Leu Phe Lys Glu Gly Thr Ala Ala Glu Asn
        35                  40                  45

Glu Thr Arg Arg Thr Lys Arg Gly Gly Arg Arg Leu Lys Arg Arg Arg
    50                  55                  60

Val Thr Arg Arg Glu Asp Met Leu His Leu Leu Lys Gln Ala Gly Ile
65                  70                  75                  80

Ile Ser Thr Ser Phe His Pro Leu Asn Asn Pro Tyr Asp Val Arg Val
                85                  90                  95

Lys Gly Leu Asn Glu Arg Leu Asn Gly Glu Glu Leu Ala Thr Ala Leu
            100                 105                 110

Leu His Leu Cys Lys His Arg Gly Ser Ser Val Glu Thr Ile Glu Asp
        115                 120                 125

Asp Glu Ala Lys Ala Lys Glu Ala Gly Glu Thr Lys Lys Val Leu Ser
    130                 135                 140

Met Asn Asp Gln Leu Leu Lys Ser Gly Lys Tyr Val Cys Glu Ile Gln
145                 150                 155                 160

Lys Glu Arg Leu Arg Thr Asn Gly His Ile Arg Gly His Glu Asn Asn
                165                 170                 175

Phe Lys Thr Arg Ala Tyr Val Asp Glu Ala Phe Gln Ile Leu Ser His
            180                 185                 190

Gln Asp Leu Ser Asn Glu Leu Lys Ser Ala Ile Ile Thr Ile Ile Ser
        195                 200                 205

Arg Lys Arg Met Tyr Tyr Asp Gly Pro Gly Gly Pro Leu Ser Pro Thr
    210                 215                 220

Pro Tyr Gly Arg Tyr Thr Tyr Phe Gly Gln Lys Glu Pro Ile Asp Leu
225                 230                 235                 240

Ile Glu Lys Met Arg Gly Lys Cys Ser Leu Phe Pro Asn Glu Pro Arg
                245                 250                 255

Ala Pro Lys Leu Ala Tyr Ser Ala Glu Leu Phe Asn Leu Leu Asn Asp
            260                 265                 270

Leu Asn Asn Leu Ser Ile Glu Gly Glu Lys Leu Thr Ser Glu Gln Lys
        275                 280                 285

Ala Met Ile Leu Lys Ile Val His Glu Lys Gly Lys Ile Thr Pro Lys
    290                 295                 300
```

```
Gln Leu Ala Lys Glu Val Gly Val Ser Leu Glu Gln Ile Arg Gly Phe
305                 310                 315                 320

Arg Ile Asp Thr Lys Gly Ser Pro Leu Leu Ser Glu Leu Thr Gly Tyr
                325                 330                 335

Lys Met Ile Arg Glu Val Leu Glu Lys Ser Asn Asp Glu His Leu Glu
            340                 345                 350

Asp His Val Phe Tyr Asp Glu Ile Ala Glu Ile Leu Thr Lys Thr Lys
        355                 360                 365

Asp Ile Glu Gly Arg Lys Lys Gln Ile Ser Glu Leu Ser Ser Asp Leu
    370                 375                 380

Asn Glu Glu Ser Val His Gln Leu Ala Gly Leu Thr Lys Phe Thr Ala
385                 390                 395                 400

Tyr His Ser Leu Ser Phe Lys Ala Leu Arg Leu Ile Asn Glu Glu Met
                405                 410                 415

Leu Lys Thr Glu Leu Asn Gln Met Gln Ser Ile Thr Leu Phe Gly Leu
            420                 425                 430

Lys Gln Asn Asn Glu Leu Ser Val Lys Gly Met Lys Asn Ile Gln Ala
        435                 440                 445

Asp Asp Thr Ala Ile Leu Ser Pro Val Ala Lys Arg Ala Gln Arg Glu
    450                 455                 460

Thr Phe Lys Val Val Asn Arg Leu Arg Glu Ile Tyr Gly Glu Phe Asp
465                 470                 475                 480

Ser Ile Val Val Glu Met Ala Arg Glu Lys Asn Ser Glu Glu Gln Arg
                485                 490                 495

Lys Ala Ile Arg Glu Arg Gln Lys Phe Phe Glu Met Arg Asn Lys Gln
            500                 505                 510

Val Ala Asp Ile Ile Gly Asp Asp Arg Lys Ile Asn Ala Lys Leu Arg
        515                 520                 525

Glu Lys Leu Val Leu Tyr Gln Glu Gln Asp Gly Lys Thr Ala Tyr Ser
    530                 535                 540

Leu Glu Pro Ile Asp Leu Lys Leu Leu Ile Asp Asp Pro Asn Ala Tyr
545                 550                 555                 560

Glu Val Asp His Ile Ile Pro Ile Ser Ile Ser Leu Asp Asp Ser Ile
                565                 570                 575
```

```
Thr Asn Lys Val Leu Val Thr His Arg Glu Asn Gln Glu Lys Gly Asn
            580                 585                 590

Leu Thr Pro Ile Ser Ala Phe Val Lys Gly Arg Phe Thr Lys Gly Ser
        595                 600                 605

Leu Ala Gln Tyr Lys Ala Tyr Cys Leu Lys Leu Lys Glu Lys Asn Ile
    610                 615                 620

Lys Thr Asn Lys Gly Tyr Arg Lys Lys Val Glu Gln Tyr Leu Leu Asn
625                 630                 635                 640

Glu Asn Asp Ile Tyr Lys Tyr Asp Ile Gln Lys Glu Phe Ile Asn Arg
                645                 650                 655

Asn Leu Val Asp Thr Ser Tyr Ala Ser Arg Val Val Leu Asn Thr Leu
            660                 665                 670

Thr Thr Tyr Phe Lys Gln Asn Glu Ile Pro Thr Lys Val Phe Thr Val
        675                 680                 685

Lys Gly Ser Leu Thr Asn Ala Phe Arg Arg Lys Ile Asn Leu Lys Lys
    690                 695                 700

Asp Arg Asp Glu Asp Tyr Gly His His Ala Ile Asp Ala Leu Ile Ile
705                 710                 715                 720

Ala Ser Met Pro Lys Met Arg Leu Leu Ser Thr Ile Phe Ser Arg Tyr
                725                 730                 735

Lys Ile Glu Asp Ile Tyr Asp Glu Ser Thr Gly Glu Val Phe Ser Ser
            740                 745                 750

Gly Asp Asp Ser Met Tyr Tyr Asp Asp Arg Tyr Phe Ala Phe Ile Ala
        755                 760                 765

Ser Leu Lys Ala Ile Lys Val Arg Lys Phe Ser His Lys Ile Asp Thr
    770                 775                 780

Lys Pro Asn Arg Ser Val Ala Asp Glu Thr Ile Tyr Ser Thr Arg Val
785                 790                 795                 800

Ile Asp Gly Lys Glu Lys Val Val Lys Lys Tyr Lys Asp Ile Tyr Asp
                805                 810                 815

Pro Lys Phe Thr Ala Leu Ala Glu Asp Ile Leu Asn Asn Ala Tyr Gln
            820                 825                 830

Glu Lys Tyr Leu Met Ala Leu His Asp Pro Gln Thr Phe Asp Gln Ile
        835                 840                 845
```

Val Lys Val Val Asn Tyr Tyr Phe Glu Glu Met Ser Lys Ser Glu Lys
850 855 860

Tyr Phe Thr Lys Asp Lys Lys Gly Arg Ile Lys Ile Ser Gly Met Asn
865 870 875 880

Pro Leu Ser Leu Tyr Arg Asp Glu His Gly Met Leu Lys Lys Tyr Ser
885 890 895

Lys Lys Gly Asp Gly Pro Ala Ile Thr Gln Met Lys Tyr Phe Asp Gly
900 905 910

Val Leu Gly Asn His Ile Asp Ile Ser Ala His Tyr Gln Val Arg Asp
915 920 925

Lys Lys Val Val Leu Gln Gln Ile Ser Pro Tyr Arg Thr Asp Phe Tyr
930 935 940

Tyr Ser Lys Glu Asn Gly Tyr Lys Phe Val Thr Ile Arg Tyr Lys Asp
945 950 955 960

Val Arg Trp Ser Glu Lys Lys Lys Lys Tyr Val Ile Asp Gln Gln Asp
965 970 975

Tyr Ala Met Lys Lys Ala Glu Lys Lys Ile Asp Asp Thr Tyr Glu Phe
980 985 990

Gln Phe Ser Met His Arg Asp Glu Leu Ile Gly Ile Thr Lys Ala Glu
995 1000 1005

Gly Glu Ala Leu Ile Tyr Pro Asp Glu Thr Trp His Asn Phe Asn
1010 1015 1020

Phe Phe Phe His Ala Gly Glu Thr Pro Glu Ile Leu Lys Phe Thr
1025 1030 1035

Ala Thr Asn Asn Asp Lys Ser Asn Lys Ile Glu Val Lys Pro Ile
1040 1045 1050

His Cys Tyr Cys Lys Met Arg Leu Met Pro Thr Ile Ser Lys Lys
1055 1060 1065

Ile Val Arg Ile Asp Lys Tyr Ala Thr Asp Val Val Gly Asn Leu
1070 1075 1080

Tyr Lys Val Lys Lys Asn Thr Leu Lys Phe Glu Phe Asp
1085 1090 1095

<210> 365
<211> 1132

<212> PRT
<213> Nitratifractor salsuginis

<400> 365

```
Met Lys Lys Ile Leu Gly Val Asp Leu Gly Ile Thr Ser Phe Gly Tyr
1               5                  10                  15

Ala Ile Leu Gln Glu Thr Gly Lys Asp Leu Tyr Arg Cys Leu Asp Asn
            20                  25                  30

Ser Val Val Met Arg Asn Asn Pro Tyr Asp Glu Lys Ser Gly Glu Ser
        35                  40                  45

Ser Gln Ser Ile Arg Ser Thr Gln Lys Ser Met Arg Arg Leu Ile Glu
    50                  55                  60

Lys Arg Lys Lys Arg Ile Arg Cys Val Ala Gln Thr Met Glu Arg Tyr
65                  70                  75                  80

Gly Ile Leu Asp Tyr Ser Glu Thr Met Lys Ile Asn Asp Pro Lys Asn
                85                  90                  95

Asn Pro Ile Lys Asn Arg Trp Gln Leu Arg Ala Val Asp Ala Trp Lys
            100                 105                 110

Arg Pro Leu Ser Pro Gln Glu Leu Phe Ala Ile Phe Ala His Met Ala
        115                 120                 125

Lys His Arg Gly Tyr Lys Ser Ile Ala Thr Glu Asp Leu Ile Tyr Glu
    130                 135                 140

Leu Glu Leu Glu Leu Gly Leu Asn Asp Pro Glu Lys Glu Ser Glu Lys
145                 150                 155                 160

Lys Ala Asp Glu Arg Arg Gln Val Tyr Asn Ala Leu Arg His Leu Glu
                165                 170                 175

Glu Leu Arg Lys Lys Tyr Gly Gly Glu Thr Ile Ala Gln Thr Ile His
            180                 185                 190

Arg Ala Val Glu Ala Gly Asp Leu Arg Ser Tyr Arg Asn His Asp Asp
        195                 200                 205

Tyr Glu Lys Met Ile Arg Arg Glu Asp Ile Glu Glu Glu Ile Glu Lys
    210                 215                 220

Val Leu Leu Arg Gln Ala Glu Leu Gly Ala Leu Gly Leu Pro Glu Glu
225                 230                 235                 240

Gln Val Ser Glu Leu Ile Asp Glu Leu Lys Ala Cys Ile Thr Asp Gln
                245                 250                 255
```

```
Glu Met Pro Thr Ile Asp Glu Ser Leu Phe Gly Lys Cys Thr Phe Tyr
            260                 265                 270

Lys Asp Glu Leu Ala Ala Pro Ala Tyr Ser Tyr Leu Tyr Asp Leu Tyr
        275                 280                 285

Arg Leu Tyr Lys Lys Leu Ala Asp Leu Asn Ile Asp Gly Tyr Glu Val
    290                 295                 300

Thr Gln Glu Asp Arg Glu Lys Val Ile Glu Trp Val Glu Lys Lys Ile
305                 310                 315                 320

Ala Gln Gly Lys Asn Leu Lys Lys Ile Thr His Lys Asp Leu Arg Lys
                325                 330                 335

Ile Leu Gly Leu Ala Pro Glu Gln Lys Ile Phe Gly Val Glu Asp Glu
            340                 345                 350

Arg Ile Val Lys Gly Lys Lys Glu Pro Arg Thr Phe Val Pro Phe Phe
        355                 360                 365

Phe Leu Ala Asp Ile Ala Lys Phe Lys Glu Leu Phe Ala Ser Ile Gln
    370                 375                 380

Lys His Pro Asp Ala Leu Gln Ile Phe Arg Glu Leu Ala Glu Ile Leu
385                 390                 395                 400

Gln Arg Ser Lys Thr Pro Gln Glu Ala Leu Asp Arg Leu Arg Ala Leu
                405                 410                 415

Met Ala Gly Lys Gly Ile Asp Thr Asp Asp Arg Glu Leu Leu Glu Leu
            420                 425                 430

Phe Lys Asn Lys Arg Ser Gly Thr Arg Glu Leu Ser His Arg Tyr Ile
        435                 440                 445

Leu Glu Ala Leu Pro Leu Phe Leu Glu Gly Tyr Asp Glu Lys Glu Val
    450                 455                 460

Gln Arg Ile Leu Gly Phe Asp Asp Arg Glu Asp Tyr Ser Arg Tyr Pro
465                 470                 475                 480

Lys Ser Leu Arg His Leu His Leu Arg Glu Gly Asn Leu Phe Glu Lys
                485                 490                 495

Glu Glu Asn Pro Ile Asn Asn His Ala Val Lys Ser Leu Ala Ser Trp
            500                 505                 510

Ala Leu Gly Leu Ile Ala Asp Leu Ser Trp Arg Tyr Gly Pro Phe Asp
        515                 520                 525
```

```
Glu Ile Ile Leu Glu Thr Thr Arg Asp Ala Leu Pro Glu Lys Ile Arg
    530                 535                 540

Lys Glu Ile Asp Lys Ala Met Arg Glu Arg Glu Lys Ala Leu Asp Lys
545                 550                 555                 560

Ile Ile Gly Lys Tyr Lys Lys Glu Phe Pro Ser Ile Asp Lys Arg Leu
                565                 570                 575

Ala Arg Lys Ile Gln Leu Trp Glu Arg Gln Lys Gly Leu Asp Leu Tyr
            580                 585                 590

Ser Gly Lys Val Ile Asn Leu Ser Gln Leu Leu Asp Gly Ser Ala Asp
        595                 600                 605

Ile Glu His Ile Val Pro Gln Ser Leu Gly Gly Leu Ser Thr Asp Tyr
    610                 615                 620

Asn Thr Ile Val Thr Leu Lys Ser Val Asn Ala Ala Lys Gly Asn Arg
625                 630                 635                 640

Leu Pro Gly Asp Trp Leu Ala Gly Asn Pro Asp Tyr Arg Glu Arg Ile
                645                 650                 655

Gly Met Leu Ser Glu Lys Gly Leu Ile Asp Trp Lys Lys Arg Lys Asn
            660                 665                 670

Leu Leu Ala Gln Ser Leu Asp Glu Ile Tyr Thr Glu Asn Thr His Ser
        675                 680                 685

Lys Gly Ile Arg Ala Thr Ser Tyr Leu Glu Ala Leu Val Ala Gln Val
    690                 695                 700

Leu Lys Arg Tyr Tyr Pro Phe Pro Asp Pro Glu Leu Arg Lys Asn Gly
705                 710                 715                 720

Ile Gly Val Arg Met Ile Pro Gly Lys Val Thr Ser Lys Thr Arg Ser
                725                 730                 735

Leu Leu Gly Ile Lys Ser Lys Ser Arg Glu Thr Asn Phe His His Ala
            740                 745                 750

Glu Asp Ala Leu Ile Leu Ser Thr Leu Thr Arg Gly Trp Gln Asn Arg
        755                 760                 765

Leu His Arg Met Leu Arg Asp Asn Tyr Gly Lys Ser Glu Ala Glu Leu
    770                 775                 780

Lys Glu Leu Trp Lys Lys Tyr Met Pro His Ile Glu Gly Leu Thr Leu
785                 790                 795                 800
```

```
Ala Asp Tyr Ile Asp Glu Ala Phe Arg Arg Phe Met Ser Lys Gly Glu
                805                 810                 815

Glu Ser Leu Phe Tyr Arg Asp Met Phe Asp Thr Ile Arg Ser Ile Ser
            820                 825                 830

Tyr Trp Val Asp Lys Lys Pro Leu Ser Ala Ser Ser His Lys Glu Thr
        835                 840                 845

Val Tyr Ser Ser Arg His Glu Val Pro Thr Leu Arg Lys Asn Ile Leu
    850                 855                 860

Glu Ala Phe Asp Ser Leu Asn Val Ile Lys Asp Arg His Lys Leu Thr
865                 870                 875                 880

Thr Glu Glu Phe Met Lys Arg Tyr Asp Lys Glu Ile Arg Gln Lys Leu
                885                 890                 895

Trp Leu His Arg Ile Gly Asn Thr Asn Asp Glu Ser Tyr Arg Ala Val
            900                 905                 910

Glu Glu Arg Ala Thr Gln Ile Ala Gln Ile Leu Thr Arg Tyr Gln Leu
        915                 920                 925

Met Asp Ala Gln Asn Asp Lys Glu Ile Asp Glu Lys Phe Gln Gln Ala
    930                 935                 940

Leu Lys Glu Leu Ile Thr Ser Pro Ile Glu Val Thr Gly Lys Leu Leu
945                 950                 955                 960

Arg Lys Met Arg Phe Val Tyr Asp Lys Leu Asn Ala Met Gln Ile Asp
                965                 970                 975

Arg Gly Leu Val Glu Thr Asp Lys Asn Met Leu Gly Ile His Ile Ser
            980                 985                 990

Lys Gly Pro Asn Glu Lys Leu Ile  Phe Arg Arg Met Asp  Val Asn Asn
        995                 1000                1005

Ala His  Glu Leu Gln Lys Glu  Arg Ser Gly Ile Leu  Cys Tyr Leu
    1010                1015                1020

Asn Glu  Met Leu Phe Ile Phe  Asn Lys Lys Gly Leu  Ile His Tyr
    1025                1030                1035

Gly Cys  Leu Arg Ser Tyr Leu  Glu Lys Gly Gln Gly  Ser Lys Tyr
    1040                1045                1050

Ile Ala  Leu Phe Asn Pro Arg  Phe Pro Ala Asn Pro  Lys Ala Gln
    1055                1060                1065
```

```
Pro Ser  Lys Phe Thr Ser Asp  Ser Lys Ile Lys Gln  Val Gly Ile
    1070                1075                1080

Gly Ser  Ala Thr Gly Ile Ile  Lys Ala His Leu Asp  Leu Asp Gly
    1085                1090                1095

His Val  Arg Ser Tyr Glu Val  Phe Gly Thr Leu Pro  Glu Gly Ser
    1100                1105                1110

Ile Glu  Trp Phe Lys Glu Glu  Ser Gly Tyr Gly Arg  Val Glu Asp
    1115                1120                1125

Asp Pro  His His
    1130
```

<210> 366
<211> 1173
<212> PRT
<213> Rhodospirillum rubrum

<400> 366

```
Met Arg Pro Ile Glu Pro Trp Ile Leu Gly Leu Asp Ile Gly Thr Asp
1               5                   10                  15

Ser Leu Gly Trp Ala Val Phe Ser Cys Glu Glu Lys Gly Pro Pro Thr
            20                  25                  30

Ala Lys Glu Leu Leu Gly Gly Gly Val Arg Leu Phe Asp Ser Gly Arg
        35                  40                  45

Asp Ala Lys Asp His Thr Ser Arg Gln Ala Glu Arg Gly Ala Phe Arg
    50                  55                  60

Arg Ala Arg Arg Gln Thr Arg Thr Trp Pro Trp Arg Arg Asp Arg Leu
65                  70                  75                  80

Ile Ala Leu Phe Gln Ala Ala Gly Leu Thr Pro Pro Ala Ala Glu Thr
                85                  90                  95

Arg Gln Ile Ala Leu Ala Leu Arg Arg Glu Ala Val Ser Arg Pro Leu
            100                 105                 110

Ala Pro Asp Ala Leu Trp Ala Ala Leu Leu His Leu Ala His His Arg
        115                 120                 125

Gly Phe Arg Ser Asn Arg Ile Asp Lys Arg Glu Arg Ala Ala Ala Lys
    130                 135                 140

Ala Leu Ala Lys Ala Lys Pro Ala Lys Ala Thr Ala Lys Ala Thr Ala
145                 150                 155                 160
```

```
Pro Ala Lys Glu Ala Asp Asp Glu Ala Gly Phe Trp Glu Gly Ala Glu
                165                 170                 175

Ala Ala Leu Arg Gln Arg Met Ala Ala Ser Gly Ala Pro Thr Val Gly
            180                 185                 190

Ala Leu Leu Ala Asp Asp Leu Asp Arg Gly Gln Pro Val Arg Met Arg
        195                 200                 205

Tyr Asn Gln Ser Asp Arg Asp Gly Val Val Ala Pro Thr Arg Ala Leu
    210                 215                 220

Ile Ala Glu Glu Leu Ala Glu Ile Val Ala Arg Gln Ser Ser Ala Tyr
225                 230                 235                 240

Pro Gly Leu Asp Trp Pro Ala Val Thr Arg Leu Val Leu Asp Gln Arg
                245                 250                 255

Pro Leu Arg Ser Lys Gly Ala Gly Pro Cys Ala Phe Leu Pro Gly Glu
            260                 265                 270

Asp Arg Ala Leu Arg Ala Leu Pro Thr Val Gln Asp Phe Ile Ile Arg
        275                 280                 285

Gln Thr Leu Ala Asn Leu Arg Leu Pro Ser Thr Ser Ala Asp Glu Pro
    290                 295                 300

Arg Pro Leu Thr Asp Glu Glu His Ala Lys Ala Leu Ala Leu Leu Ser
305                 310                 315                 320

Thr Ala Arg Phe Val Glu Trp Pro Ala Leu Arg Arg Ala Leu Gly Leu
                325                 330                 335

Lys Arg Gly Val Lys Phe Thr Ala Glu Thr Glu Arg Asn Gly Ala Lys
            340                 345                 350

Gln Ala Ala Arg Gly Thr Ala Gly Asn Leu Thr Glu Ala Ile Leu Ala
        355                 360                 365

Pro Leu Ile Pro Gly Trp Ser Gly Trp Asp Leu Asp Arg Lys Asp Arg
    370                 375                 380

Val Phe Ser Asp Leu Trp Ala Ala Arg Gln Asp Arg Ser Ala Leu Leu
385                 390                 395                 400

Ala Leu Ile Gly Asp Pro Arg Gly Pro Thr Arg Val Thr Glu Asp Glu
                405                 410                 415

Thr Ala Glu Ala Val Ala Asp Ala Ile Gln Ile Val Leu Pro Thr Gly
            420                 425                 430
```

```
Arg Ala Ser Leu Ser Ala Lys Ala Ala Arg Ala Ile Ala Gln Ala Met
        435                 440                 445

Ala Pro Gly Ile Gly Tyr Asp Glu Ala Val Thr Leu Ala Leu Gly Leu
    450                 455                 460

His His Ser His Arg Pro Arg Gln Glu Arg Leu Ala Arg Leu Pro Tyr
465                 470                 475                 480

Tyr Ala Ala Ala Leu Pro Asp Val Gly Leu Asp Gly Asp Pro Val Gly
                485                 490                 495

Pro Pro Pro Ala Glu Asp Asp Gly Ala Ala Ala Glu Ala Tyr Tyr Gly
            500                 505                 510

Arg Ile Gly Asn Ile Ser Val His Ile Ala Leu Asn Glu Thr Arg Lys
        515                 520                 525

Ile Val Asn Ala Leu Leu His Arg His Gly Pro Ile Leu Arg Leu Val
    530                 535                 540

Met Val Glu Thr Thr Arg Glu Leu Lys Ala Gly Ala Asp Glu Arg Lys
545                 550                 555                 560

Arg Met Ile Ala Glu Gln Ala Glu Arg Glu Arg Glu Asn Ala Glu Ile
                565                 570                 575

Asp Val Glu Leu Arg Lys Ser Asp Arg Trp Met Ala Asn Ala Arg Glu
            580                 585                 590

Arg Arg Gln Arg Val Arg Leu Ala Arg Arg Gln Asn Asn Leu Cys Pro
        595                 600                 605

Tyr Thr Ser Thr Pro Ile Gly His Ala Asp Leu Leu Gly Asp Ala Tyr
    610                 615                 620

Asp Ile Asp His Val Ile Pro Leu Ala Arg Gly Gly Arg Asp Ser Leu
625                 630                 635                 640

Asp Asn Met Val Leu Cys Gln Ser Asp Ala Asn Lys Thr Lys Gly Asp
                645                 650                 655

Lys Thr Pro Trp Glu Ala Phe His Asp Lys Pro Gly Trp Ile Ala Gln
            660                 665                 670

Arg Asp Asp Phe Leu Ala Arg Leu Asp Pro Gln Thr Ala Lys Ala Leu
        675                 680                 685

Ala Trp Arg Phe Ala Asp Asp Ala Gly Glu Arg Val Ala Arg Lys Ser
    690                 695                 700
```

```
Ala Glu Asp Glu Asp Gln Gly Phe Leu Pro Arg Gln Leu Thr Asp Thr
705                 710                 715                 720

Gly Tyr Ile Ala Arg Val Ala Leu Arg Tyr Leu Ser Leu Val Thr Asn
                725                 730                 735

Glu Pro Asn Ala Val Val Ala Thr Asn Gly Arg Leu Thr Gly Leu Leu
            740                 745                 750

Arg Leu Ala Trp Asp Ile Thr Pro Gly Pro Ala Pro Arg Asp Leu Leu
        755                 760                 765

Pro Thr Pro Arg Asp Ala Leu Arg Asp Asp Thr Ala Ala Arg Arg Phe
    770                 775                 780

Leu Asp Gly Leu Thr Pro Pro Pro Leu Ala Lys Ala Val Glu Gly Ala
785                 790                 795                 800

Val Gln Ala Arg Leu Ala Ala Leu Gly Arg Ser Arg Val Ala Asp Ala
                805                 810                 815

Gly Leu Ala Asp Ala Leu Gly Leu Thr Leu Ala Ser Leu Gly Gly Gly
            820                 825                 830

Gly Lys Asn Arg Ala Asp His Arg His His Phe Ile Asp Ala Ala Met
        835                 840                 845

Ile Ala Val Thr Thr Arg Gly Leu Ile Asn Gln Ile Asn Gln Ala Ser
    850                 855                 860

Gly Ala Gly Arg Ile Leu Asp Leu Arg Lys Trp Pro Arg Thr Asn Phe
865                 870                 875                 880

Glu Pro Pro Tyr Pro Thr Phe Arg Ala Glu Val Met Lys Gln Trp Asp
                885                 890                 895

His Ile His Pro Ser Ile Arg Pro Ala His Arg Asp Gly Gly Ser Leu
            900                 905                 910

His Ala Ala Thr Val Phe Gly Val Arg Asn Arg Pro Asp Ala Arg Val
        915                 920                 925

Leu Val Gln Arg Lys Pro Val Glu Lys Leu Phe Leu Asp Ala Asn Ala
    930                 935                 940

Lys Pro Leu Pro Ala Asp Lys Ile Ala Glu Ile Ile Asp Gly Phe Ala
945                 950                 955                 960

Ser Pro Arg Met Ala Lys Arg Phe Lys Ala Leu Leu Ala Arg Tyr Gln
                965                 970                 975
```

Ala Ala His Pro Glu Val Pro Pro Ala Leu Ala Ala Leu Ala Val Ala
980 985 990

Arg Asp Pro Ala Phe Gly Pro Arg Gly Met Thr Ala Asn Thr Val Ile
995 1000 1005

Ala Gly Arg Ser Asp Gly Asp Gly Glu Asp Ala Gly Leu Ile Thr
1010 1015 1020

Pro Phe Arg Ala Asn Pro Lys Ala Ala Val Arg Thr Met Gly Asn
1025 1030 1035

Ala Val Tyr Glu Val Trp Glu Ile Gln Val Lys Gly Arg Pro Arg
1040 1045 1050

Trp Thr His Arg Val Leu Thr Arg Phe Asp Arg Thr Gln Pro Ala
1055 1060 1065

Pro Pro Pro Pro Pro Glu Asn Ala Arg Leu Val Met Arg Leu Arg
1070 1075 1080

Arg Gly Asp Leu Val Tyr Trp Pro Leu Glu Ser Gly Asp Arg Leu
1085 1090 1095

Phe Leu Val Lys Lys Met Ala Val Asp Gly Arg Leu Ala Leu Trp
1100 1105 1110

Pro Ala Arg Leu Ala Thr Gly Lys Ala Thr Ala Leu Tyr Ala Gln
1115 1120 1125

Leu Ser Cys Pro Asn Ile Asn Leu Asn Gly Asp Gln Gly Tyr Cys
1130 1135 1140

Val Gln Ser Ala Glu Gly Ile Arg Lys Glu Lys Ile Arg Thr Thr
1145 1150 1155

Ser Cys Thr Ala Leu Gly Arg Leu Arg Leu Ser Lys Lys Ala Thr
1160 1165 1170

<210> 367
<211> 1021
<212> PRT
<213> Clostridium cellulolyticum

<400> 367

Met Lys Tyr Thr Leu Gly Leu Asp Val Gly Ile Ala Ser Val Gly Trp
1 5 10 15

Ala Val Ile Asp Lys Asp Asn Asn Lys Ile Ile Asp Leu Gly Val Arg
20 25 30

Cys Phe Asp Lys Ala Glu Glu Ser Lys Thr Gly Glu Ser Leu Ala Thr

```
        35                  40                  45

Ala Arg Arg Ile Ala Arg Gly Met Arg Arg Ile Ser Arg Arg Ser
    50                  55                  60

Gln Arg Leu Arg Leu Val Lys Lys Leu Phe Val Gln Tyr Glu Ile Ile
65                  70                  75                  80

Lys Asp Ser Ser Glu Phe Asn Arg Ile Phe Asp Thr Ser Arg Asp Gly
                85                  90                  95

Trp Lys Asp Pro Trp Glu Leu Arg Tyr Asn Ala Leu Ser Arg Ile Leu
            100                 105                 110

Lys Pro Tyr Glu Leu Val Gln Val Leu Thr His Ile Thr Lys Arg Arg
        115                 120                 125

Gly Phe Lys Ser Asn Arg Lys Glu Asp Leu Ser Thr Thr Lys Glu Gly
    130                 135                 140

Val Val Ile Thr Ser Ile Lys Asn Asn Ser Glu Met Leu Arg Thr Lys
145                 150                 155                 160

Asn Tyr Arg Thr Ile Gly Glu Met Ile Phe Met Glu Thr Pro Glu Asn
                165                 170                 175

Ser Asn Lys Arg Asn Lys Val Asp Glu Tyr Ile His Thr Ile Ala Arg
            180                 185                 190

Glu Asp Leu Leu Asn Glu Ile Lys Tyr Ile Phe Ser Ile Gln Arg Lys
        195                 200                 205

Leu Gly Ser Pro Phe Val Thr Glu Lys Leu Glu His Asp Phe Leu Asn
    210                 215                 220

Ile Trp Glu Phe Gln Arg Pro Phe Ala Ser Gly Asp Ser Ile Leu Ser
225                 230                 235                 240

Lys Val Gly Lys Cys Thr Leu Leu Lys Glu Glu Leu Arg Ala Pro Thr
                245                 250                 255

Ser Cys Tyr Thr Ser Glu Tyr Phe Gly Leu Leu Gln Ser Ile Asn Asn
            260                 265                 270

Leu Val Leu Val Glu Asp Asn Asn Thr Leu Thr Leu Asn Asn Asp Gln
        275                 280                 285

Arg Ala Lys Ile Ile Glu Tyr Ala His Phe Lys Asn Glu Ile Lys Tyr
    290                 295                 300

Ser Glu Ile Arg Lys Leu Leu Asp Ile Glu Pro Glu Ile Leu Phe Lys
```

305 310 315 320

Ala His Asn Leu Thr His Lys Asn Pro Ser Gly Asn Asn Glu Ser Lys
325 330 335

Lys Phe Tyr Glu Met Lys Ser Tyr His Lys Leu Lys Ser Thr Leu Pro
340 345 350

Thr Asp Ile Trp Gly Lys Leu His Ser Asn Lys Glu Ser Leu Asp Asn
355 360 365

Leu Phe Tyr Cys Leu Thr Val Tyr Lys Asn Asp Asn Glu Ile Lys Asp
370 375 380

Tyr Leu Gln Ala Asn Asn Leu Asp Tyr Leu Ile Glu Tyr Ile Ala Lys
385 390 395 400

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

Arg Ile Ile Pro Phe Met Glu Lys Gly Tyr Lys Tyr Ser Asp Ala Cys
420 425 430

Asn Met Ala Glu Leu Asp Phe Thr Gly Ser Ser Lys Leu Glu Lys Cys
435 440 445

Asn Lys Leu Thr Val Glu Pro Ile Ile Glu Asn Val Thr Asn Pro Val
450 455 460

Val Ile Arg Ala Leu Thr Gln Ala Arg Lys Val Ile Asn Ala Ile Ile
465 470 475 480

Gln Lys Tyr Gly Leu Pro Tyr Met Val Asn Ile Glu Leu Ala Arg Glu
485 490 495

Ala Gly Met Thr Arg Gln Asp Arg Asp Asn Leu Lys Lys Glu His Glu
500 505 510

Asn Asn Arg Lys Ala Arg Glu Lys Ile Ser Asp Leu Ile Arg Gln Asn
515 520 525

Gly Arg Val Ala Ser Gly Leu Asp Ile Leu Lys Trp Arg Leu Trp Glu
530 535 540

Asp Gln Gly Gly Arg Cys Ala Tyr Ser Gly Lys Pro Ile Pro Val Cys
545 550 555 560

Asp Leu Leu Asn Asp Ser Leu Thr Gln Ile Asp His Ile Tyr Pro Tyr
565 570 575

Ser Arg Ser Met Asp Asp Ser Tyr Met Asn Lys Val Leu Val Leu Thr

580 585 590

Asp Glu Asn Gln Asn Lys Arg Ser Tyr Thr Pro Tyr Glu Val Trp Gly
595 600 605

Ser Thr Glu Lys Trp Glu Asp Phe Glu Ala Arg Ile Tyr Ser Met His
610 615 620

Leu Pro Gln Ser Lys Glu Lys Arg Leu Leu Asn Arg Asn Phe Ile Thr
625 630 635 640

Lys Asp Leu Asp Ser Phe Ile Ser Arg Asn Leu Asn Asp Thr Arg Tyr
645 650 655

Ile Ser Arg Phe Leu Lys Asn Tyr Ile Glu Ser Tyr Leu Gln Phe Ser
660 665 670

Asn Asp Ser Pro Lys Ser Cys Val Val Cys Val Asn Gly Gln Cys Thr
675 680 685

Ala Gln Leu Arg Ser Arg Trp Gly Leu Asn Lys Asn Arg Glu Glu Ser
690 695 700

Asp Leu His His Ala Leu Asp Ala Ala Val Ile Ala Cys Ala Asp Arg
705 710 715 720

Lys Ile Ile Lys Glu Ile Thr Asn Tyr Tyr Asn Glu Arg Glu Asn His
725 730 735

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

Leu Met Glu Thr Leu Ala Gly Val Phe Ile Ser Arg Ala Pro Arg Arg
755 760 765

Lys Ile Thr Gly Pro Ala His Asp Glu Thr Ile Arg Ser Pro Lys His
770 775 780

Phe Asn Lys Gly Leu Thr Ser Val Lys Ile Pro Leu Thr Thr Val Thr
785 790 795 800

Leu Glu Lys Leu Glu Thr Met Val Lys Asn Thr Lys Gly Gly Ile Ser
805 810 815

Asp Lys Ala Val Tyr Asn Val Leu Lys Asn Arg Leu Ile Glu His Asn
820 825 830

Asn Lys Pro Leu Lys Ala Phe Ala Glu Lys Ile Tyr Lys Pro Leu Lys
835 840 845

Asn Gly Thr Asn Gly Ala Ile Ile Arg Ser Ile Arg Val Glu Thr Pro

850 855 860

Ser Tyr Thr Gly Val Phe Arg Asn Glu Gly Lys Gly Ile Ser Asp Asn
865 870 875 880

Ser Leu Met Val Arg Val Asp Val Phe Lys Lys Lys Asp Lys Tyr Tyr
885 890 895

Leu Val Pro Ile Tyr Val Ala His Met Ile Lys Lys Glu Leu Pro Ser
900 905 910

Lys Ala Ile Val Pro Leu Lys Pro Glu Ser Gln Trp Glu Leu Ile Asp
915 920 925

Ser Thr His Glu Phe Leu Phe Ser Leu Tyr Gln Asn Asp Tyr Leu Val
930 935 940

Ile Lys Thr Lys Lys Gly Ile Thr Glu Gly Tyr Tyr Arg Ser Cys His
945 950 955 960

Arg Gly Thr Gly Ser Leu Ser Leu Met Pro His Phe Ala Asn Asn Lys
965 970 975

Asn Val Lys Ile Asp Ile Gly Val Arg Thr Ala Ile Ser Ile Glu Lys
980 985 990

Tyr Asn Val Asp Ile Leu Gly Asn Lys Ser Ile Val Lys Gly Glu Pro
995 1000 1005

Arg Arg Gly Met Glu Lys Tyr Asn Ser Phe Lys Ser Asn
1010 1015 1020

<210> 368
<211> 1024
<212> PRT
<213> Helicobacter mustelae

<400> 368

Met Ile Arg Thr Leu Gly Ile Asp Ile Gly Ile Ala Ser Ile Gly Trp
1 5 10 15

Ala Val Ile Glu Gly Glu Tyr Thr Asp Lys Gly Leu Glu Asn Lys Glu
20 25 30

Ile Val Ala Ser Gly Val Arg Val Phe Thr Lys Ala Glu Asn Pro Lys
35 40 45

Asn Lys Glu Ser Leu Ala Leu Pro Arg Thr Leu Ala Arg Ser Ala Arg
50 55 60

Arg Arg Asn Ala Arg Lys Lys Gly Arg Ile Gln Gln Val Lys His Tyr
65 70 75 80

```
Leu Ser Lys Ala Leu Gly Leu Asp Leu Glu Cys Phe Val Gln Gly Glu
                85                  90                  95

Lys Leu Ala Thr Leu Phe Gln Thr Ser Lys Asp Phe Leu Ser Pro Trp
            100                 105                 110

Glu Leu Arg Glu Arg Ala Leu Tyr Arg Val Leu Asp Lys Glu Glu Leu
        115                 120                 125

Ala Arg Val Ile Leu His Ile Ala Lys Arg Arg Gly Tyr Asp Asp Ile
    130                 135                 140

Thr Tyr Gly Val Glu Asp Asn Asp Ser Gly Lys Ile Lys Lys Ala Ile
145                 150                 155                 160

Ala Glu Asn Ser Lys Arg Ile Lys Glu Glu Gln Cys Lys Thr Ile Gly
                165                 170                 175

Glu Met Met Tyr Lys Leu Tyr Phe Gln Lys Ser Leu Asn Val Arg Asn
            180                 185                 190

Lys Lys Glu Ser Tyr Asn Arg Cys Val Gly Arg Ser Glu Leu Arg Glu
        195                 200                 205

Glu Leu Lys Thr Ile Phe Gln Ile Gln Gln Glu Leu Lys Ser Pro Trp
    210                 215                 220

Val Asn Glu Glu Leu Ile Tyr Lys Leu Leu Gly Asn Pro Asp Ala Gln
225                 230                 235                 240

Ser Lys Gln Glu Arg Glu Gly Leu Ile Phe Tyr Gln Arg Pro Leu Lys
                245                 250                 255

Gly Phe Gly Asp Lys Ile Gly Lys Cys Ser His Ile Lys Lys Gly Glu
            260                 265                 270

Asn Ser Pro Tyr Arg Ala Cys Lys His Ala Pro Ser Ala Glu Glu Phe
        275                 280                 285

Val Ala Leu Thr Lys Ser Ile Asn Phe Leu Lys Asn Leu Thr Asn Arg
    290                 295                 300

His Gly Leu Cys Phe Ser Gln Glu Asp Met Cys Val Tyr Leu Gly Lys
305                 310                 315                 320

Ile Leu Gln Glu Ala Gln Lys Asn Glu Lys Gly Leu Thr Tyr Ser Lys
                325                 330                 335

Leu Lys Leu Leu Leu Asp Leu Pro Ser Asp Phe Glu Phe Leu Gly Leu
            340                 345                 350
```

```
Asp Tyr Ser Gly Lys Asn Pro Glu Lys Ala Val Phe Leu Ser Leu Pro
        355                 360                 365

Ser Thr Phe Lys Leu Asn Lys Ile Thr Gln Asp Arg Lys Thr Gln Asp
    370                 375                 380

Lys Ile Ala Asn Ile Leu Gly Ala Asn Lys Asp Trp Glu Ala Ile Leu
385                 390                 395                 400

Lys Glu Leu Glu Ser Leu Gln Leu Ser Lys Glu Gln Ile Gln Thr Ile
                405                 410                 415

Lys Asp Ala Lys Leu Asn Phe Ser Lys His Ile Asn Leu Ser Leu Glu
            420                 425                 430

Ala Leu Tyr His Leu Leu Pro Leu Met Arg Glu Gly Lys Arg Tyr Asp
        435                 440                 445

Glu Gly Val Glu Ile Leu Gln Glu Arg Gly Ile Phe Ser Lys Pro Gln
    450                 455                 460

Pro Lys Asn Arg Gln Leu Leu Pro Pro Leu Ser Glu Leu Ala Lys Glu
465                 470                 475                 480

Glu Ser Tyr Phe Asp Ile Pro Asn Pro Val Leu Arg Arg Ala Leu Ser
                485                 490                 495

Glu Phe Arg Lys Val Val Asn Ala Leu Leu Glu Lys Tyr Gly Gly Phe
            500                 505                 510

His Tyr Phe His Ile Glu Leu Thr Arg Asp Val Cys Lys Ala Lys Ser
        515                 520                 525

Ala Arg Met Gln Leu Glu Lys Ile Asn Lys Lys Asn Lys Ser Glu Asn
    530                 535                 540

Asp Ala Ala Ser Gln Leu Leu Glu Val Leu Gly Leu Pro Asn Thr Tyr
545                 550                 555                 560

Asn Asn Arg Leu Lys Cys Lys Leu Trp Lys Gln Gln Glu Glu Tyr Cys
                565                 570                 575

Leu Tyr Ser Gly Glu Lys Ile Thr Ile Asp His Leu Lys Asp Gln Arg
            580                 585                 590

Ala Leu Gln Ile Asp His Ala Phe Pro Leu Ser Arg Ser Leu Asp Asp
        595                 600                 605

Ser Gln Ser Asn Lys Val Leu Cys Leu Thr Ser Ser Asn Gln Glu Lys
    610                 615                 620
```

```
Ser Asn Lys Thr Pro Tyr Glu Trp Leu Gly Ser Asp Glu Lys Lys Trp
625                 630                 635                 640

Asp Met Tyr Val Gly Arg Val Tyr Ser Ser Asn Phe Ser Pro Ser Lys
                645                 650                 655

Lys Arg Lys Leu Thr Gln Lys Asn Phe Lys Glu Arg Asn Glu Glu Asp
            660                 665                 670

Phe Leu Ala Arg Asn Leu Val Asp Thr Gly Tyr Ile Gly Arg Val Thr
        675                 680                 685

Lys Glu Tyr Ile Lys His Ser Leu Ser Phe Leu Pro Leu Pro Asp Gly
    690                 695                 700

Lys Lys Glu His Ile Arg Ile Ile Ser Gly Ser Met Thr Ser Thr Met
705                 710                 715                 720

Arg Ser Phe Trp Gly Val Gln Glu Lys Asn Arg Asp His His Leu His
                725                 730                 735

His Ala Gln Asp Ala Ile Ile Ile Ala Cys Ile Glu Pro Ser Met Ile
            740                 745                 750

Gln Lys Tyr Thr Thr Tyr Leu Lys Asp Lys Glu Thr His Arg Leu Lys
        755                 760                 765

Ser His Gln Lys Ala Gln Ile Leu Arg Glu Gly Asp His Lys Leu Ser
    770                 775                 780

Leu Arg Trp Pro Met Ser Asn Phe Lys Asp Lys Ile Gln Glu Ser Ile
785                 790                 795                 800

Gln Asn Ile Ile Pro Ser His His Val Ser His Lys Val Thr Gly Glu
                805                 810                 815

Leu His Gln Glu Thr Val Arg Thr Lys Glu Phe Tyr Tyr Gln Ala Phe
            820                 825                 830

Gly Gly Glu Glu Gly Val Lys Lys Ala Leu Lys Phe Gly Lys Ile Arg
        835                 840                 845

Glu Ile Asn Gln Gly Ile Val Asp Asn Gly Ala Met Val Arg Val Asp
    850                 855                 860

Ile Phe Lys Ser Lys Asp Lys Gly Lys Phe Tyr Ala Val Pro Ile Tyr
865                 870                 875                 880

Thr Tyr Asp Phe Ala Ile Gly Lys Leu Pro Asn Lys Ala Ile Val Gln
                885                 890                 895
```

```
Gly Lys Lys Asn Gly Ile Ile Lys Asp Trp Leu Glu Met Asp Glu Asn
            900                 905                 910

Tyr Glu Phe Cys Phe Ser Leu Phe Lys Asn Asp Cys Ile Lys Ile Gln
        915                 920                 925

Thr Lys Glu Met Gln Glu Ala Val Leu Ala Ile Tyr Lys Ser Thr Asn
    930                 935                 940

Ser Ala Lys Ala Thr Ile Glu Leu Glu His Leu Ser Lys Tyr Ala Leu
945                 950                 955                 960

Lys Asn Glu Asp Glu Glu Lys Met Phe Thr Asp Thr Asp Lys Glu Lys
                965                 970                 975

Asn Lys Thr Met Thr Arg Glu Ser Cys Gly Ile Gln Gly Leu Lys Val
            980                 985                 990

Phe Gln Lys Val Lys Leu Ser Val  Leu Gly Glu Val Leu  Glu His Lys
        995                 1000                1005

Pro Arg  Asn Arg Gln Asn Ile  Ala Leu Lys Thr Thr  Pro Lys His
    1010                1015                1020

Val
```

<210> 369
<211> 1092
<212> PRT
<213> Ilyobacter polytropus

<400> 369

```
Met Lys Tyr Ser Ile Gly Leu Asp Ile Gly Ile Ala Ser Val Gly Trp
1               5                   10                  15

Ser Val Ile Asn Lys Asp Lys Glu Arg Ile Glu Asp Met Gly Val Arg
            20                  25                  30

Ile Phe Gln Lys Ala Glu Asn Pro Lys Asp Gly Ser Ser Leu Ala Ser
        35                  40                  45

Ser Arg Arg Glu Lys Arg Gly Ser Arg Arg Arg Asn Arg Arg Lys Lys
    50                  55                  60

His Arg Leu Asp Arg Ile Lys Asn Ile Leu Cys Glu Ser Gly Leu Val
65                  70                  75                  80

Lys Lys Asn Glu Ile Glu Lys Ile Tyr Lys Asn Ala Tyr Leu Lys Ser
                85                  90                  95
```

```
Pro Trp Glu Leu Arg Ala Lys Ser Leu Glu Ala Lys Ile Ser Asn Lys
            100                 105                 110

Glu Ile Ala Gln Ile Leu Leu His Ile Ala Lys Arg Arg Gly Phe Lys
        115                 120                 125

Ser Phe Arg Lys Thr Asp Arg Asn Ala Asp Asp Thr Gly Lys Leu Leu
    130                 135                 140

Ser Gly Ile Gln Glu Asn Lys Lys Ile Met Glu Glu Lys Gly Tyr Leu
145                 150                 155                 160

Thr Ile Gly Asp Met Val Ala Lys Asp Pro Lys Phe Asn Thr His Val
                165                 170                 175

Arg Asn Lys Ala Gly Ser Tyr Leu Phe Ser Phe Ser Arg Lys Leu Leu
            180                 185                 190

Glu Asp Glu Val Arg Lys Ile Gln Ala Lys Gln Lys Glu Leu Gly Asn
        195                 200                 205

Thr His Phe Thr Asp Asp Val Leu Glu Lys Tyr Ile Glu Val Phe Asn
    210                 215                 220

Ser Gln Arg Asn Phe Asp Glu Gly Pro Ser Lys Pro Ser Pro Tyr Tyr
225                 230                 235                 240

Ser Glu Ile Gly Gln Ile Ala Lys Met Ile Gly Asn Cys Thr Phe Glu
                245                 250                 255

Ser Ser Glu Lys Arg Thr Ala Lys Asn Thr Trp Ser Gly Glu Arg Phe
            260                 265                 270

Val Phe Leu Gln Lys Leu Asn Asn Phe Arg Ile Val Gly Leu Ser Gly
        275                 280                 285

Lys Arg Pro Leu Thr Glu Glu Glu Arg Asp Ile Val Glu Lys Glu Val
    290                 295                 300

Tyr Leu Lys Lys Glu Val Arg Tyr Glu Lys Leu Arg Lys Ile Leu Tyr
305                 310                 315                 320

Leu Lys Glu Glu Glu Arg Phe Gly Asp Leu Asn Tyr Ser Lys Asp Glu
                325                 330                 335

Lys Gln Asp Lys Lys Thr Glu Lys Thr Lys Phe Ile Ser Leu Ile Gly
            340                 345                 350

Asn Tyr Thr Ile Lys Lys Leu Asn Leu Ser Glu Lys Leu Lys Ser Glu
        355                 360                 365
```

```
Ile Glu Glu Asp Lys Ser Lys Leu Asp Lys Ile Ile Glu Ile Leu Thr
    370                 375                 380

Phe Asn Lys Ser Asp Lys Thr Ile Glu Ser Asn Leu Lys Lys Leu Glu
385                 390                 395                 400

Leu Ser Arg Glu Asp Ile Glu Ile Leu Leu Ser Glu Glu Phe Ser Gly
                405                 410                 415

Thr Leu Asn Leu Ser Leu Lys Ala Ile Lys Lys Ile Leu Pro Tyr Leu
            420                 425                 430

Glu Lys Gly Leu Ser Tyr Asn Glu Ala Cys Glu Lys Ala Asp Tyr Asp
        435                 440                 445

Tyr Lys Asn Asn Gly Ile Lys Phe Lys Arg Gly Glu Leu Leu Pro Val
    450                 455                 460

Val Asp Lys Asp Leu Ile Ala Asn Pro Val Val Leu Arg Ala Ile Ser
465                 470                 475                 480

Gln Thr Arg Lys Val Val Asn Ala Ile Ile Arg Lys Tyr Gly Thr Pro
                485                 490                 495

His Thr Ile His Val Glu Val Ala Arg Asp Leu Ala Lys Ser Tyr Asp
            500                 505                 510

Asp Arg Gln Thr Ile Ile Lys Glu Asn Lys Lys Arg Glu Leu Glu Asn
        515                 520                 525

Glu Lys Thr Lys Lys Phe Ile Ser Glu Glu Phe Gly Ile Lys Asn Val
    530                 535                 540

Lys Gly Lys Leu Leu Leu Lys Tyr Arg Leu Tyr Gln Glu Gln Glu Gly
545                 550                 555                 560

Arg Cys Ala Tyr Ser Arg Lys Glu Leu Ser Leu Ser Glu Val Ile Leu
                565                 570                 575

Asp Glu Ser Met Thr Asp Ile Asp His Ile Ile Pro Tyr Ser Arg Ser
            580                 585                 590

Met Asp Asp Ser Tyr Ser Asn Lys Val Leu Val Leu Ser Gly Glu Asn
        595                 600                 605

Arg Lys Lys Ser Asn Leu Leu Pro Lys Glu Tyr Phe Asp Arg Gln Gly
    610                 615                 620

Arg Asp Trp Asp Thr Phe Val Leu Asn Val Lys Ala Met Lys Ile His
625                 630                 635                 640
```

```
Pro Arg Lys Lys Ser Asn Leu Leu Lys Glu Lys Phe Thr Arg Glu Asp
                645                 650                 655

Asn Lys Asp Trp Lys Ser Arg Ala Leu Asn Asp Thr Arg Tyr Ile Ser
            660                 665                 670

Arg Phe Val Ala Asn Tyr Leu Glu Asn Ala Leu Glu Tyr Arg Asp Asp
        675                 680                 685

Ser Pro Lys Lys Arg Val Phe Met Ile Pro Gly Gln Leu Thr Ala Gln
    690                 695                 700

Leu Arg Ala Arg Trp Arg Leu Asn Lys Val Arg Glu Asn Gly Asp Leu
705                 710                 715                 720

His His Ala Leu Asp Ala Ala Val Val Ala Val Thr Asp Gln Lys Ala
                725                 730                 735

Ile Asn Asn Ile Ser Asn Ile Ser Arg Tyr Lys Glu Leu Lys Asn Cys
            740                 745                 750

Lys Asp Val Ile Pro Ser Ile Glu Tyr His Ala Asp Glu Glu Thr Gly
        755                 760                 765

Glu Val Tyr Phe Glu Glu Val Lys Asp Thr Arg Phe Pro Met Pro Trp
    770                 775                 780

Ser Gly Phe Asp Leu Glu Leu Gln Lys Arg Leu Glu Ser Glu Asn Pro
785                 790                 795                 800

Arg Glu Glu Phe Tyr Asn Leu Leu Ser Asp Lys Arg Tyr Leu Gly Trp
                805                 810                 815

Phe Asn Tyr Glu Glu Gly Phe Ile Glu Lys Leu Arg Pro Val Phe Val
            820                 825                 830

Ser Arg Met Pro Asn Arg Gly Val Lys Gly Gln Ala His Gln Glu Thr
        835                 840                 845

Ile Arg Ser Ser Lys Lys Ile Ser Asn Gln Ile Ala Val Ser Lys Lys
    850                 855                 860

Pro Leu Asn Ser Ile Lys Leu Lys Asp Leu Glu Lys Met Gln Gly Arg
865                 870                 875                 880

Asp Thr Asp Arg Lys Leu Tyr Glu Ala Leu Lys Asn Arg Leu Glu Glu
                885                 890                 895

Tyr Asp Asp Lys Pro Glu Lys Ala Phe Ala Glu Pro Phe Tyr Lys Pro
            900                 905                 910
```

```
Thr Asn Ser Gly Lys Arg Gly Pro Leu Val Arg Gly Ile Lys Val Glu
        915                 920                 925

Glu Lys Gln Asn Val Gly Val Tyr Val Asn Gly Gly Gln Ala Ser Asn
    930                 935                 940

Gly Ser Met Val Arg Ile Asp Val Phe Arg Lys Asn Gly Lys Phe Tyr
945                 950                 955                 960

Thr Val Pro Ile Tyr Val His Gln Thr Leu Leu Lys Glu Leu Pro Asn
                965                 970                 975

Arg Ala Ile Asn Gly Lys Pro Tyr Lys Asp Trp Asp Leu Ile Asp Gly
            980                 985                 990

Ser Phe Glu Phe Leu Tyr Ser Phe  Tyr Pro Asn Asp Leu  Ile Glu Ile
        995                 1000                1005

Glu Phe  Gly Lys Ser Lys Ser  Ile Lys Asn Asp Asn  Lys Leu Thr
    1010                1015                1020

Lys Thr  Glu Ile Pro Glu Val  Asn Leu Ser Glu Val  Leu Gly Tyr
    1025                1030                1035

Tyr Arg  Gly Met Asp Thr Ser  Thr Gly Ala Ala Thr  Ile Asp Thr
    1040                1045                1050

Gln Asp  Gly Lys Ile Gln Met  Arg Ile Gly Ile Lys  Thr Val Lys
    1055                1060                1065

Asn Ile  Lys Lys Tyr Gln Val  Asp Val Leu Gly Asn  Val Tyr Lys
    1070                1075                1080

Val Lys  Arg Glu Lys Arg Gln  Thr Phe
    1085                1090


<210>  370
<211>  1179
<212>  PRT
<213>  Sphaerochaeta globus

<400>  370

Met Ser Lys Lys Val Ser Arg Arg Tyr Glu Glu Gln Ala Gln Glu Ile
1               5                   10                  15

Cys Gln Arg Leu Gly Ser Arg Pro Tyr Ser Ile Gly Leu Asp Leu Gly
            20                  25                  30

Val Gly Ser Ile Gly Val Ala Val Ala Ala Tyr Asp Pro Ile Lys Lys
        35                  40                  45
```

```
Gln Pro Ser Asp Leu Val Phe Val Ser Ser Arg Ile Phe Ile Pro Ser
    50                  55                  60

Thr Gly Ala Ala Glu Arg Arg Gln Lys Arg Gly Gln Arg Asn Ser Leu
65                  70                  75                  80

Arg His Arg Ala Asn Arg Leu Lys Phe Leu Trp Lys Leu Leu Ala Glu
                85                  90                  95

Arg Asn Leu Met Leu Ser Tyr Ser Glu Gln Asp Val Pro Asp Pro Ala
            100                 105                 110

Arg Leu Arg Phe Glu Asp Ala Val Val Arg Ala Asn Pro Tyr Glu Leu
        115                 120                 125

Arg Leu Lys Gly Leu Asn Glu Gln Leu Thr Leu Ser Glu Leu Gly Tyr
    130                 135                 140

Ala Leu Tyr His Ile Ala Asn His Arg Gly Ser Ser Ser Val Arg Thr
145                 150                 155                 160

Phe Leu Asp Glu Glu Lys Ser Ser Asp Asp Lys Lys Leu Glu Glu Gln
                165                 170                 175

Gln Ala Met Thr Glu Gln Leu Ala Lys Glu Lys Gly Ile Ser Thr Phe
            180                 185                 190

Ile Glu Val Leu Thr Ala Phe Asn Thr Asn Gly Leu Ile Gly Tyr Arg
        195                 200                 205

Asn Ser Glu Ser Val Lys Ser Lys Gly Val Pro Val Pro Thr Arg Asp
    210                 215                 220

Ile Ile Ser Asn Glu Ile Asp Val Leu Leu Gln Thr Gln Lys Gln Phe
225                 230                 235                 240

Tyr Gln Glu Ile Leu Ser Asp Glu Tyr Cys Asp Arg Ile Val Ser Ala
                245                 250                 255

Ile Leu Phe Glu Asn Glu Lys Ile Val Pro Glu Ala Gly Cys Cys Pro
            260                 265                 270

Tyr Phe Pro Asp Glu Lys Lys Leu Pro Arg Cys His Phe Leu Asn Glu
        275                 280                 285

Glu Arg Arg Leu Trp Glu Ala Ile Asn Asn Ala Arg Ile Lys Met Pro
    290                 295                 300

Met Gln Glu Gly Ala Ala Lys Arg Tyr Gln Ser Ala Ser Phe Ser Asp
305                 310                 315                 320
```

```
Glu Gln Arg His Ile Leu Phe His Ile Ala Arg Ser Gly Thr Asp Ile
                325                 330                 335

Thr Pro Lys Leu Val Gln Lys Glu Phe Pro Ala Leu Lys Thr Ser Ile
            340                 345                 350

Ile Val Leu Gln Gly Lys Glu Lys Ala Ile Gln Lys Ile Ala Gly Phe
        355                 360                 365

Arg Phe Arg Arg Leu Glu Glu Lys Ser Phe Trp Lys Arg Leu Ser Glu
    370                 375                 380

Glu Gln Lys Asp Asp Phe Phe Ser Ala Trp Thr Asn Thr Pro Asp Asp
385                 390                 395                 400

Lys Arg Leu Ser Lys Tyr Leu Met Lys His Leu Leu Leu Thr Glu Asn
                405                 410                 415

Glu Val Val Asp Ala Leu Lys Thr Val Ser Leu Ile Gly Asp Tyr Gly
            420                 425                 430

Pro Ile Gly Lys Thr Ala Thr Gln Leu Leu Met Lys His Leu Glu Asp
        435                 440                 445

Gly Leu Thr Tyr Thr Glu Ala Leu Glu Arg Gly Met Glu Thr Gly Glu
    450                 455                 460

Phe Gln Glu Leu Ser Val Trp Glu Gln Gln Ser Leu Leu Pro Tyr Tyr
465                 470                 475                 480

Gly Gln Ile Leu Thr Gly Ser Thr Gln Ala Leu Met Gly Lys Tyr Trp
                485                 490                 495

His Ser Ala Phe Lys Glu Lys Arg Asp Ser Glu Gly Phe Phe Lys Pro
            500                 505                 510

Asn Thr Asn Ser Asp Glu Glu Lys Tyr Gly Arg Ile Ala Asn Pro Val
        515                 520                 525

Val His Gln Thr Leu Asn Glu Leu Arg Lys Leu Met Asn Glu Leu Ile
    530                 535                 540

Thr Ile Leu Gly Ala Lys Pro Gln Glu Ile Thr Val Glu Leu Ala Arg
545                 550                 555                 560

Glu Leu Lys Val Gly Ala Glu Lys Arg Glu Asp Ile Ile Lys Gln Gln
                565                 570                 575

Thr Lys Gln Glu Lys Glu Ala Val Leu Ala Tyr Ser Lys Tyr Cys Glu
            580                 585                 590
```

```
Pro Asn Asn Leu Asp Lys Arg Tyr Ile Glu Arg Phe Arg Leu Leu Glu
        595                 600                 605

Asp Gln Ala Phe Val Cys Pro Tyr Cys Leu Glu His Ile Ser Val Ala
    610                 615                 620

Asp Ile Ala Ala Gly Arg Ala Asp Val Asp His Ile Phe Pro Arg Asp
625                 630                 635                 640

Asp Thr Ala Asp Asn Ser Tyr Gly Asn Lys Val Val Ala His Arg Gln
                645                 650                 655

Cys Asn Asp Ile Lys Gly Lys Arg Thr Pro Tyr Ala Ala Phe Ser Asn
            660                 665                 670

Thr Ser Ala Trp Gly Pro Ile Met His Tyr Leu Asp Glu Thr Pro Gly
        675                 680                 685

Met Trp Arg Lys Arg Arg Lys Phe Glu Thr Asn Glu Glu Glu Tyr Ala
    690                 695                 700

Lys Tyr Leu Gln Ser Lys Gly Phe Val Ser Arg Phe Glu Ser Asp Asn
705                 710                 715                 720

Ser Tyr Ile Ala Lys Ala Ala Lys Glu Tyr Leu Arg Cys Leu Phe Asn
                725                 730                 735

Pro Asn Asn Val Thr Ala Val Gly Ser Leu Lys Gly Met Glu Thr Ser
            740                 745                 750

Ile Leu Arg Lys Ala Trp Asn Leu Gln Gly Ile Asp Asp Leu Leu Gly
        755                 760                 765

Ser Arg His Trp Ser Lys Asp Ala Asp Thr Ser Pro Thr Met Arg Lys
    770                 775                 780

Asn Arg Asp Asp Asn Arg His His Gly Leu Asp Ala Ile Val Ala Leu
785                 790                 795                 800

Tyr Cys Ser Arg Ser Leu Val Gln Met Ile Asn Thr Met Ser Glu Gln
                805                 810                 815

Gly Lys Arg Ala Val Glu Ile Glu Ala Met Ile Pro Ile Pro Gly Tyr
            820                 825                 830

Ala Ser Glu Pro Asn Leu Ser Phe Glu Ala Gln Arg Glu Leu Phe Arg
        835                 840                 845

Lys Lys Ile Leu Glu Phe Met Asp Leu His Ala Phe Val Ser Met Lys
    850                 855                 860
```

```
Thr Asp Asn Asp Ala Asn Gly Ala Leu Leu Lys Asp Thr Val Tyr Ser
865                 870                 875                 880

Ile Leu Gly Ala Asp Thr Gln Gly Glu Asp Leu Val Phe Val Val Lys
                885                 890                 895

Lys Lys Ile Lys Asp Ile Gly Val Lys Ile Gly Asp Tyr Glu Glu Val
            900                 905                 910

Ala Ser Ala Ile Arg Gly Arg Ile Thr Asp Lys Gln Pro Lys Trp Tyr
        915                 920                 925

Pro Met Glu Met Lys Asp Lys Ile Glu Gln Leu Gln Ser Lys Asn Glu
    930                 935                 940

Ala Ala Leu Gln Lys Tyr Lys Glu Ser Leu Val Gln Ala Ala Ala Val
945                 950                 955                 960

Leu Glu Glu Ser Asn Arg Lys Leu Ile Glu Ser Gly Lys Lys Pro Ile
                965                 970                 975

Gln Leu Ser Glu Lys Thr Ile Ser Lys Lys Ala Leu Glu Leu Val Gly
            980                 985                 990

Gly Tyr Tyr Tyr Leu Ile Ser Asn  Asn Lys Arg Thr Lys  Thr Phe Val
        995                 1000                1005

Val Lys  Glu Pro Ser Asn Glu  Val Lys Gly Phe Ala  Phe Asp Thr
    1010                1015                1020

Gly Ser  Asn Leu Cys Leu Asp  Phe Tyr His Asp Ala  Gln Gly Lys
    1025                1030                1035

Leu Cys  Gly Glu Ile Ile Arg  Lys Ile Gln Ala Met  Asn Pro Ser
    1040                1045                1050

Tyr Lys  Pro Ala Tyr Met Lys  Gln Gly Tyr Ser Leu  Tyr Val Arg
    1055                1060                1065

Leu Tyr  Gln Gly Asp Val Cys  Glu Leu Arg Ala Ser  Asp Leu Thr
    1070                1075                1080

Glu Ala  Glu Ser Asn Leu Ala  Lys Thr Thr His Val  Arg Leu Pro
    1085                1090                1095

Asn Ala  Lys Pro Gly Arg Thr  Phe Val Ile Ile Ile  Thr Phe Thr
    1100                1105                1110

Glu Met  Gly Ser Gly Tyr Gln  Ile Tyr Phe Ser Asn  Leu Ala Lys
    1115                1120                1125
```

Ser Lys Lys Gly Gln Asp Thr Ser Phe Thr Leu Thr Thr Ile Lys
1130 1135 1140

Asn Tyr Asp Val Arg Lys Val Gln Leu Ser Ser Ala Gly Leu Val
1145 1150 1155

Arg Tyr Val Ser Pro Leu Leu Val Asp Lys Ile Glu Lys Asp Glu
1160 1165 1170

Val Ala Leu Cys Gly Glu
1175

<210> 371
<211> 1054
<212> PRT
<213> Staphylococcus lugdunensis

<400> 371

Met Asn Gln Lys Phe Ile Leu Gly Leu Asp Ile Gly Ile Thr Ser Val
1 5 10 15

Gly Tyr Gly Leu Ile Asp Tyr Glu Thr Lys Asn Ile Ile Asp Ala Gly
20 25 30

Val Arg Leu Phe Pro Glu Ala Asn Val Glu Asn Asn Glu Gly Arg Arg
35 40 45

Ser Lys Arg Gly Ser Arg Arg Leu Lys Arg Arg Arg Ile His Arg Leu
50 55 60

Glu Arg Val Lys Lys Leu Leu Glu Asp Tyr Asn Leu Leu Asp Gln Ser
65 70 75 80

Gln Ile Pro Gln Ser Thr Asn Pro Tyr Ala Ile Arg Val Lys Gly Leu
85 90 95

Ser Glu Ala Leu Ser Lys Asp Glu Leu Val Ile Ala Leu Leu His Ile
100 105 110

Ala Lys Arg Arg Gly Ile His Lys Ile Asp Val Ile Asp Ser Asn Asp
115 120 125

Asp Val Gly Asn Glu Leu Ser Thr Lys Glu Gln Leu Asn Lys Asn Ser
130 135 140

Lys Leu Leu Lys Asp Lys Phe Val Cys Gln Ile Gln Leu Glu Arg Met
145 150 155 160

Asn Glu Gly Gln Val Arg Gly Glu Lys Asn Arg Phe Lys Thr Ala Asp
165 170 175

Ile Ile Lys Glu Ile Ile Gln Leu Leu Asn Val Gln Lys Asn Phe His

```
            180                 185                 190

Gln Leu Asp Glu Asn Phe Ile Asn Lys Tyr Ile Glu Leu Val Glu Met
        195                 200                 205

Arg Arg Glu Tyr Phe Glu Gly Pro Gly Lys Gly Ser Pro Tyr Gly Trp
    210                 215                 220

Glu Gly Asp Pro Lys Ala Trp Tyr Glu Thr Leu Met Gly His Cys Thr
225                 230                 235                 240

Tyr Phe Pro Asp Glu Leu Arg Ser Val Lys Tyr Ala Tyr Ser Ala Asp
                245                 250                 255

Leu Phe Asn Ala Leu Asn Asp Leu Asn Asn Leu Val Ile Gln Arg Asp
            260                 265                 270

Gly Leu Ser Lys Leu Glu Tyr His Glu Lys Tyr His Ile Ile Glu Asn
        275                 280                 285

Val Phe Lys Gln Lys Lys Lys Pro Thr Leu Lys Gln Ile Ala Asn Glu
    290                 295                 300

Ile Asn Val Asn Pro Glu Asp Ile Lys Gly Tyr Arg Ile Thr Lys Ser
305                 310                 315                 320

Gly Lys Pro Gln Phe Thr Glu Phe Lys Leu Tyr His Asp Leu Lys Ser
                325                 330                 335

Val Leu Phe Asp Gln Ser Ile Leu Glu Asn Glu Asp Val Leu Asp Gln
            340                 345                 350

Ile Ala Glu Ile Leu Thr Ile Tyr Gln Asp Lys Asp Ser Ile Lys Ser
        355                 360                 365

Lys Leu Thr Glu Leu Asp Ile Leu Leu Asn Glu Glu Asp Lys Glu Asn
    370                 375                 380

Ile Ala Gln Leu Thr Gly Tyr Thr Gly Thr His Arg Leu Ser Leu Lys
385                 390                 395                 400

Cys Ile Arg Leu Val Leu Glu Glu Gln Trp Tyr Ser Ser Arg Asn Gln
                405                 410                 415

Met Glu Ile Phe Thr His Leu Asn Ile Lys Pro Lys Lys Ile Asn Leu
            420                 425                 430

Thr Ala Ala Asn Lys Ile Pro Lys Ala Met Ile Asp Glu Phe Ile Leu
        435                 440                 445

Ser Pro Val Val Lys Arg Thr Phe Gly Gln Ala Ile Asn Leu Ile Asn
```

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    450                 455                 460

Lys Ile Ile Glu Lys Tyr Gly Val Pro Glu Asp Ile Ile Ile Glu Leu
465                 470                 475                 480

Ala Arg Glu Asn Asn Ser Lys Asp Lys Gln Lys Phe Ile Asn Glu Met
                485                 490                 495

Gln Lys Lys Asn Glu Asn Thr Arg Lys Arg Ile Asn Glu Ile Ile Gly
            500                 505                 510

Lys Tyr Gly Asn Gln Asn Ala Lys Arg Leu Val Glu Lys Ile Arg Leu
        515                 520                 525

His Asp Glu Gln Glu Gly Lys Cys Leu Tyr Ser Leu Glu Ser Ile Pro
    530                 535                 540

Leu Glu Asp Leu Leu Asn Asn Pro Asn His Tyr Glu Val Asp His Ile
545                 550                 555                 560

Ile Pro Arg Ser Val Ser Phe Asp Asn Ser Tyr His Asn Lys Val Leu
                565                 570                 575

Val Lys Gln Ser Glu Asn Ser Lys Lys Ser Asn Leu Thr Pro Tyr Gln
            580                 585                 590

Tyr Phe Asn Ser Gly Lys Ser Lys Leu Ser Tyr Asn Gln Phe Lys Gln
        595                 600                 605

His Ile Leu Asn Leu Ser Lys Ser Gln Asp Arg Ile Ser Lys Lys Lys
    610                 615                 620

Lys Glu Tyr Leu Leu Glu Glu Arg Asp Ile Asn Lys Phe Glu Val Gln
625                 630                 635                 640

Lys Glu Phe Ile Asn Arg Asn Leu Val Asp Thr Arg Tyr Ala Thr Arg
                645                 650                 655

Glu Leu Thr Asn Tyr Leu Lys Ala Tyr Phe Ser Ala Asn Asn Met Asn
            660                 665                 670

Val Lys Val Lys Thr Ile Asn Gly Ser Phe Thr Asp Tyr Leu Arg Lys
        675                 680                 685

Val Trp Lys Phe Lys Lys Glu Arg Asn His Gly Tyr Lys His His Ala
    690                 695                 700

Glu Asp Ala Leu Ile Ile Ala Asn Ala Asp Phe Leu Phe Lys Glu Asn
705                 710                 715                 720

Lys Lys Leu Lys Ala Val Asn Ser Val Leu Glu Lys Pro Glu Ile Glu
```

725 730 735

Ser Lys Gln Leu Asp Ile Gln Val Asp Ser Glu Asp Asn Tyr Ser Glu
740 745 750

Met Phe Ile Ile Pro Lys Gln Val Gln Asp Ile Lys Asp Phe Arg Asn
755 760 765

Phe Lys Tyr Ser His Arg Val Asp Lys Lys Pro Asn Arg Gln Leu Ile
770 775 780

Asn Asp Thr Leu Tyr Ser Thr Arg Lys Lys Asp Asn Ser Thr Tyr Ile
785 790 795 800

Val Gln Thr Ile Lys Asp Ile Tyr Ala Lys Asp Asn Thr Thr Leu Lys
805 810 815

Lys Gln Phe Asp Lys Ser Pro Glu Lys Phe Leu Met Tyr Gln His Asp
820 825 830

Pro Arg Thr Phe Glu Lys Leu Glu Val Ile Met Lys Gln Tyr Ala Asn
835 840 845

Glu Lys Asn Pro Leu Ala Lys Tyr His Glu Glu Thr Gly Glu Tyr Leu
850 855 860

Thr Lys Tyr Ser Lys Lys Asn Asn Gly Pro Ile Val Lys Ser Leu Lys
865 870 875 880

Tyr Ile Gly Asn Lys Leu Gly Ser His Leu Asp Val Thr His Gln Phe
885 890 895

Lys Ser Ser Thr Lys Lys Leu Val Lys Leu Ser Ile Lys Pro Tyr Arg
900 905 910

Phe Asp Val Tyr Leu Thr Asp Lys Gly Tyr Lys Phe Ile Thr Ile Ser
915 920 925

Tyr Leu Asp Val Leu Lys Lys Asp Asn Tyr Tyr Tyr Ile Pro Glu Gln
930 935 940

Lys Tyr Asp Lys Leu Lys Leu Gly Lys Ala Ile Asp Lys Asn Ala Lys
945 950 955 960

Phe Ile Ala Ser Phe Tyr Lys Asn Asp Leu Ile Lys Leu Asp Gly Glu
965 970 975

Ile Tyr Lys Ile Ile Gly Val Asn Ser Asp Thr Arg Asn Met Ile Glu
980 985 990

Leu Asp Leu Pro Asp Ile Arg Tyr Lys Glu Tyr Cys Glu Leu Asn Asn

995 1000 1005

Ile Lys Gly Glu Pro Arg Ile Lys Lys Thr Ile Gly Lys Lys Val
1010 1015 1020

Asn Ser Ile Glu Lys Leu Thr Thr Asp Val Leu Gly Asn Val Phe
1025 1030 1035

Thr Asn Thr Gln Tyr Thr Lys Pro Gln Leu Leu Phe Lys Arg Gly
1040 1045 1050

Asn

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<211> 1061
<212> PRT
<213> Treponema sp.

<400> 372

Met Ile Met Lys Leu Glu Lys Trp Arg Leu Gly Leu Asp Leu Gly Thr
1 5 10 15

Asn Ser Ile Gly Trp Ser Val Phe Ser Leu Asp Lys Asp Asn Ser Val
20 25 30

Gln Asp Leu Ile Asp Met Gly Val Arg Ile Phe Ser Asp Gly Arg Asp
35 40 45

Pro Lys Thr Lys Glu Pro Leu Ala Val Ala Arg Arg Thr Ala Arg Ser
50 55 60

Gln Arg Lys Leu Ile Tyr Arg Arg Lys Leu Arg Arg Lys Gln Val Phe
65 70 75 80

Lys Phe Leu Gln Glu Gln Gly Leu Phe Pro Lys Thr Lys Glu Glu Cys
85 90 95

Met Thr Leu Lys Ser Leu Asn Pro Tyr Glu Leu Arg Ile Lys Ala Leu
100 105 110

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

Ala Val Arg Arg Gly Phe Lys Ser Asn Arg Lys Asp Gly Ser Arg Glu
130 135 140

Glu Val Ser Glu Lys Lys Ser Pro Asp Glu Ile Lys Thr Gln Ala Asp
145 150 155 160

Met Gln Thr His Leu Glu Lys Ala Ile Lys Glu Asn Gly Cys Arg Thr
165 170 175

```
Ile Thr Glu Phe Leu Tyr Lys Asn Gln Gly Glu Asn Gly Gly Ile Arg
            180                 185                 190

Phe Ala Pro Gly Arg Met Thr Tyr Tyr Pro Thr Arg Lys Met Tyr Glu
        195                 200                 205

Glu Glu Phe Asn Leu Ile Arg Ser Lys Gln Glu Lys Tyr Tyr Pro Gln
    210                 215                 220

Val Asp Trp Asp Asp Ile Tyr Lys Ala Ile Phe Tyr Gln Arg Pro Leu
225                 230                 235                 240

Lys Pro Gln Gln Arg Gly Tyr Cys Ile Tyr Glu Asn Asp Lys Glu Arg
                245                 250                 255

Thr Phe Lys Ala Met Pro Cys Ser Gln Lys Leu Arg Ile Leu Gln Asp
            260                 265                 270

Ile Gly Asn Leu Ala Tyr Tyr Glu Gly Gly Ser Lys Lys Arg Val Glu
        275                 280                 285

Leu Asn Asp Asn Gln Asp Lys Val Leu Tyr Glu Leu Leu Asn Ser Lys
    290                 295                 300

Asp Lys Val Thr Phe Asp Gln Met Arg Lys Ala Leu Cys Leu Ala Asp
305                 310                 315                 320

Ser Asn Ser Phe Asn Leu Glu Glu Asn Arg Asp Phe Leu Ile Gly Asn
                325                 330                 335

Pro Thr Ala Val Lys Met Arg Ser Lys Asn Arg Phe Gly Lys Leu Trp
            340                 345                 350

Asp Glu Ile Pro Leu Glu Glu Gln Asp Leu Ile Ile Glu Thr Ile Ile
        355                 360                 365

Thr Ala Asp Glu Asp Asp Ala Val Tyr Glu Val Ile Lys Lys Tyr Asp
    370                 375                 380

Leu Thr Gln Glu Gln Arg Asp Phe Ile Val Lys Asn Thr Ile Leu Gln
385                 390                 395                 400

Ser Gly Thr Ser Met Leu Cys Lys Glu Val Ser Glu Lys Leu Val Lys
                405                 410                 415

Arg Leu Glu Glu Ile Ala Asp Leu Lys Tyr His Glu Ala Val Glu Ser
            420                 425                 430

Leu Gly Tyr Lys Phe Ala Asp Gln Thr Val Glu Lys Tyr Asp Leu Leu
        435                 440                 445
```

```
Pro Tyr Tyr Gly Lys Val Leu Pro Gly Ser Thr Met Glu Ile Asp Leu
    450                 455                 460

Ser Ala Pro Glu Thr Asn Pro Glu Lys His Tyr Gly Lys Ile Ser Asn
465                 470                 475                 480

Pro Thr Val His Val Ala Leu Asn Gln Thr Arg Val Val Val Asn Ala
                485                 490                 495

Leu Ile Lys Glu Tyr Gly Lys Pro Ser Gln Ile Ala Ile Glu Leu Ser
            500                 505                 510

Arg Asp Leu Lys Asn Asn Val Glu Lys Lys Ala Glu Ile Ala Arg Lys
        515                 520                 525

Gln Asn Gln Arg Ala Lys Glu Asn Ile Ala Ile Asn Asp Thr Ile Ser
    530                 535                 540

Ala Leu Tyr His Thr Ala Phe Pro Gly Lys Ser Phe Tyr Pro Asn Arg
545                 550                 555                 560

Asn Asp Arg Met Lys Tyr Arg Leu Trp Ser Glu Leu Gly Leu Gly Asn
                565                 570                 575

Lys Cys Ile Tyr Cys Gly Lys Gly Ile Ser Gly Ala Glu Leu Phe Thr
            580                 585                 590

Lys Glu Ile Glu Ile Glu His Ile Leu Pro Phe Ser Arg Thr Leu Leu
        595                 600                 605

Asp Ala Glu Ser Asn Leu Thr Val Ala His Ser Ser Cys Asn Ala Phe
    610                 615                 620

Lys Ala Glu Arg Ser Pro Phe Glu Ala Phe Gly Thr Asn Pro Ser Gly
625                 630                 635                 640

Tyr Ser Trp Gln Glu Ile Ile Gln Arg Ala Asn Gln Leu Lys Asn Thr
                645                 650                 655

Ser Lys Lys Asn Lys Phe Ser Pro Asn Ala Met Asp Ser Phe Glu Lys
            660                 665                 670

Asp Ser Ser Phe Ile Ala Arg Gln Leu Ser Asp Asn Gln Tyr Ile Ala
        675                 680                 685

Lys Ala Ala Leu Arg Tyr Leu Lys Cys Leu Val Glu Asn Pro Ser Asp
    690                 695                 700

Val Trp Thr Thr Asn Gly Ser Met Thr Lys Leu Leu Arg Asp Lys Trp
705                 710                 715                 720
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```
Glu Met Asp Ser Ile Leu Cys Arg Lys Phe Thr Glu Lys Glu Val Ala
                725                 730                 735

Leu Leu Gly Leu Lys Pro Glu Gln Ile Gly Asn Tyr Lys Lys Asn Arg
            740                 745                 750

Phe Asp His Arg His His Ala Ile Asp Ala Val Val Ile Gly Leu Thr
        755                 760                 765

Asp Arg Ser Met Val Gln Lys Leu Ala Thr Lys Asn Ser His Lys Gly
    770                 775                 780

Asn Arg Ile Glu Ile Pro Glu Phe Pro Ile Leu Arg Ser Asp Leu Ile
785                 790                 795                 800

Glu Lys Val Lys Asn Ile Val Val Ser Phe Lys Pro Asp His Gly Ala
                805                 810                 815

Glu Gly Lys Leu Ser Lys Glu Thr Leu Leu Gly Lys Ile Lys Leu His
            820                 825                 830

Gly Lys Glu Thr Phe Val Cys Arg Glu Asn Ile Val Ser Leu Ser Glu
        835                 840                 845

Lys Asn Leu Asp Asp Ile Val Asp Glu Ile Lys Ser Lys Val Lys Asp
    850                 855                 860

Tyr Val Ala Lys His Lys Gly Gln Lys Ile Glu Ala Val Leu Ser Asp
865                 870                 875                 880

Phe Ser Lys Glu Asn Gly Ile Lys Lys Val Arg Cys Val Asn Arg Val
                885                 890                 895

Gln Thr Pro Ile Glu Ile Thr Ser Gly Lys Ile Ser Arg Tyr Leu Ser
            900                 905                 910

Pro Glu Asp Tyr Phe Ala Ala Val Ile Trp Glu Ile Pro Gly Glu Lys
        915                 920                 925

Lys Thr Phe Lys Ala Gln Tyr Ile Arg Arg Asn Glu Val Glu Lys Asn
    930                 935                 940

Ser Lys Gly Leu Asn Val Val Lys Pro Ala Val Leu Glu Asn Gly Lys
945                 950                 955                 960

Pro His Pro Ala Ala Lys Gln Val Cys Leu Leu His Lys Asp Asp Tyr
                965                 970                 975

Leu Glu Phe Ser Asp Lys Gly Lys Met Tyr Phe Cys Arg Ile Ala Gly
            980                 985                 990
```

```
Tyr Ala Ala Thr Asn Asn Lys Leu  Asp Ile Arg Pro Val  Tyr Ala Val
        995                 1000                1005


Ser Tyr  Cys Ala Asp Trp Ile  Asn Ser Thr Asn Glu  Thr Met Leu
    1010                1015                1020


Thr Gly  Tyr Trp Lys Pro Thr  Pro Thr Gln Asn Trp  Val Ser Val
    1025                1030                1035


Asn Val  Leu Phe Asp Lys Gln  Lys Ala Arg Leu Val  Thr Val Ser
    1040                1045                1050


Pro Ile  Gly Arg Val Phe Arg  Lys
    1055                1060


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<213>  Unknown

<220>
<223>  Uncultured delta polypeptide

<400>  373

Met Ser Ser Lys Ala Ile Asp Ser Leu Glu Gln Leu Asp Leu Phe Lys
1               5                   10                  15


Pro Gln Glu Tyr Thr Leu Gly Leu Asp Leu Gly Ile Lys Ser Ile Gly
            20                  25                  30


Trp Ala Ile Leu Ser Gly Glu Arg Ile Ala Asn Ala Gly Val Tyr Leu
        35                  40                  45


Phe Glu Thr Ala Glu Glu Leu Asn Ser Thr Gly Asn Lys Leu Ile Ser
    50                  55                  60


Lys Ala Ala Glu Arg Gly Arg Lys Arg Arg Ile Arg Arg Met Leu Asp
65                  70                  75                  80


Arg Lys Ala Arg Arg Gly Arg His Ile Arg Tyr Leu Leu Glu Arg Glu
                85                  90                  95


Gly Leu Pro Thr Asp Glu Leu Glu Glu Val Val Val His Gln Ser Asn
            100                 105                 110


Arg Thr Leu Trp Asp Val Arg Ala Glu Ala Val Glu Arg Lys Leu Thr
        115                 120                 125


Lys Gln Glu Leu Ala Ala Val Leu Phe His Leu Val Arg His Arg Gly
    130                 135                 140
```

```
Tyr Phe Pro Asn Thr Lys Lys Leu Pro Pro Asp Asp Glu Ser Asp Ser
145                 150                 155                 160

Ala Asp Glu Glu Gln Gly Lys Ile Asn Arg Ala Thr Ser Arg Leu Arg
                165                 170                 175

Glu Glu Leu Lys Ala Ser Asp Cys Lys Thr Ile Gly Gln Phe Leu Ala
            180                 185                 190

Gln Asn Arg Asp Arg Gln Arg Asn Arg Glu Gly Asp Tyr Ser Asn Leu
        195                 200                 205

Met Ala Arg Lys Leu Val Phe Glu Glu Ala Leu Gln Ile Leu Ala Phe
    210                 215                 220

Gln Arg Lys Gln Gly His Glu Leu Ser Lys Asp Phe Glu Lys Thr Tyr
225                 230                 235                 240

Leu Asp Val Leu Met Gly Gln Arg Ser Gly Arg Ser Pro Lys Leu Gly
                245                 250                 255

Asn Cys Ser Leu Ile Pro Ser Glu Leu Arg Ala Pro Ser Ser Ala Pro
            260                 265                 270

Ser Thr Glu Trp Phe Lys Phe Leu Gln Asn Leu Gly Asn Leu Gln Ile
        275                 280                 285

Ser Asn Ala Tyr Arg Glu Glu Trp Ser Ile Asp Ala Pro Arg Arg Ala
    290                 295                 300

Gln Ile Ile Asp Ala Cys Ser Gln Arg Ser Thr Ser Ser Tyr Trp Gln
305                 310                 315                 320

Ile Arg Arg Asp Phe Gln Ile Pro Asp Glu Tyr Arg Phe Asn Leu Val
                325                 330                 335

Asn Tyr Glu Arg Arg Asp Pro Asp Val Asp Leu Gln Glu Tyr Leu Gln
            340                 345                 350

Gln Gln Glu Arg Lys Thr Leu Ala Asn Phe Arg Asn Trp Lys Gln Leu
        355                 360                 365

Glu Lys Ile Ile Gly Thr Gly His Pro Ile Gln Thr Leu Asp Glu Ala
    370                 375                 380

Ala Arg Leu Ile Thr Leu Ile Lys Asp Asp Glu Lys Leu Ser Asp Gln
385                 390                 395                 400

Leu Ala Asp Leu Leu Pro Glu Ala Ser Asp Lys Ala Ile Thr Gln Leu
                405                 410                 415
```

```
Cys Glu Leu Asp Phe Thr Thr Ala Ala Lys Ile Ser Leu Glu Ala Met
            420                 425                 430

Tyr Arg Ile Leu Pro His Met Asn Gln Gly Met Gly Phe Phe Asp Ala
        435                 440                 445

Cys Gln Gln Glu Ser Leu Pro Glu Ile Gly Val Pro Pro Ala Gly Asp
    450                 455                 460

Arg Val Pro Pro Phe Asp Glu Met Tyr Asn Pro Val Val Asn Arg Val
465                 470                 475                 480

Leu Ser Gln Ser Arg Lys Leu Ile Asn Ala Val Ile Asp Glu Tyr Gly
                485                 490                 495

Met Pro Ala Lys Ile Arg Val Glu Leu Ala Arg Asp Leu Gly Lys Gly
            500                 505                 510

Arg Glu Leu Arg Glu Arg Ile Lys Leu Asp Gln Leu Asp Lys Ser Lys
        515                 520                 525

Gln Asn Asp Gln Arg Ala Glu Asp Phe Arg Ala Glu Phe Gln Gln Ala
    530                 535                 540

Pro Arg Gly Asp Gln Ser Leu Arg Tyr Arg Leu Trp Lys Glu Gln Asn
545                 550                 555                 560

Cys Thr Cys Pro Tyr Ser Gly Arg Met Ile Pro Val Asn Ser Val Leu
                565                 570                 575

Ser Glu Asp Thr Gln Ile Asp His Ile Leu Pro Ile Ser Gln Ser Phe
            580                 585                 590

Asp Asn Ser Leu Ser Asn Lys Val Leu Cys Phe Thr Glu Glu Asn Ala
        595                 600                 605

Gln Lys Ser Asn Arg Thr Pro Phe Glu Tyr Leu Asp Ala Ala Asp Phe
    610                 615                 620

Gln Arg Leu Glu Ala Ile Ser Gly Asn Trp Pro Glu Ala Lys Arg Asn
625                 630                 635                 640

Lys Leu Leu His Lys Ser Phe Gly Lys Val Ala Glu Glu Trp Lys Ser
                645                 650                 655

Arg Ala Leu Asn Asp Thr Arg Tyr Leu Thr Ser Ala Leu Ala Asp His
            660                 665                 670

Leu Arg His His Leu Pro Asp Ser Lys Ile Gln Thr Val Asn Gly Arg
        675                 680                 685
```

```
Ile Thr Gly Tyr Leu Arg Lys Gln Trp Gly Leu Glu Lys Asp Arg Asp
    690                 695                 700

Lys His Thr His His Ala Val Asp Ala Ile Val Val Ala Cys Thr Thr
705                 710                 715                 720

Pro Ala Ile Val Gln Gln Val Thr Leu Tyr His Gln Asp Ile Arg Arg
                725                 730                 735

Tyr Lys Lys Leu Gly Glu Lys Arg Pro Thr Pro Trp Pro Glu Thr Phe
            740                 745                 750

Arg Gln Asp Val Leu Asp Val Glu Glu Glu Ile Phe Ile Thr Arg Gln
        755                 760                 765

Pro Lys Lys Val Ser Gly Gly Ile Gln Thr Lys Asp Thr Leu Arg Lys
    770                 775                 780

His Arg Ser Lys Pro Asp Arg Gln Arg Val Ala Leu Thr Lys Val Lys
785                 790                 795                 800

Leu Ala Asp Leu Glu Arg Leu Val Glu Lys Asp Ala Ser Asn Arg Asn
                805                 810                 815

Leu Tyr Glu His Leu Lys Gln Cys Leu Glu Glu Ser Gly Asp Gln Pro
            820                 825                 830

Thr Lys Ala Phe Lys Ala Pro Phe Tyr Met Pro Ser Gly Pro Glu Ala
        835                 840                 845

Lys Gln Arg Pro Ile Leu Ser Lys Val Thr Leu Leu Arg Glu Lys Pro
    850                 855                 860

Glu Pro Pro Lys Gln Leu Thr Glu Leu Ser Gly Gly Arg Arg Tyr Asp
865                 870                 875                 880

Ser Met Ala Gln Gly Arg Leu Asp Ile Tyr Arg Tyr Lys Pro Gly Gly
                885                 890                 895

Lys Arg Lys Asp Glu Tyr Arg Val Val Leu Gln Arg Met Ile Asp Leu
            900                 905                 910

Met Arg Gly Glu Glu Asn Val His Val Phe Gln Lys Gly Val Pro Tyr
        915                 920                 925

Asp Gln Gly Pro Glu Ile Glu Gln Asn Tyr Thr Phe Leu Phe Ser Leu
    930                 935                 940

Tyr Phe Asp Asp Leu Val Glu Phe Gln Arg Ser Ala Asp Ser Glu Val
945                 950                 955                 960
```

Ile Arg Gly Tyr Tyr Arg Thr Phe Asn Ile Ala Asn Gly Gln Leu Lys
965 970 975

Ile Ser Thr Tyr Leu Glu Gly Arg Gln Asp Phe Asp Phe Phe Gly Ala
980 985 990

Asn Arg Leu Ala His Phe Ala Lys Val Gln Val Asn Leu Leu Gly Lys
995 1000 1005

Val Ile Lys
1010

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<211> 1029
<212> PRT
<213> Alicycliphilus denitrificans

<400> 374

Met Arg Ser Leu Arg Tyr Arg Leu Ala Leu Asp Leu Gly Ser Thr Ser
1 5 10 15

Leu Gly Trp Ala Leu Phe Arg Leu Asp Ala Cys Asn Arg Pro Thr Ala
20 25 30

Val Ile Lys Ala Gly Val Arg Ile Phe Ser Asp Gly Arg Asn Pro Lys
35 40 45

Asp Gly Ser Ser Leu Ala Val Thr Arg Arg Ala Ala Arg Ala Met Arg
50 55 60

Arg Arg Arg Asp Arg Leu Leu Lys Arg Lys Thr Arg Met Gln Ala Lys
65 70 75 80

Leu Val Glu His Gly Phe Phe Pro Ala Asp Ala Gly Lys Arg Lys Ala
85 90 95

Leu Glu Gln Leu Asn Pro Tyr Ala Leu Arg Ala Lys Gly Leu Gln Glu
100 105 110

Ala Leu Leu Pro Gly Glu Phe Ala Arg Ala Leu Phe His Ile Asn Gln
115 120 125

Arg Arg Gly Phe Lys Ser Asn Arg Lys Thr Asp Lys Lys Asp Asn Asp
130 135 140

Ser Gly Val Leu Lys Lys Ala Ile Gly Gln Leu Arg Gln Gln Met Ala
145 150 155 160

Glu Gln Gly Ser Arg Thr Val Gly Glu Tyr Leu Trp Thr Arg Leu Gln
165 170 175

Gln Gly Gln Gly Val Arg Ala Arg Tyr Arg Glu Lys Pro Tyr Thr Thr

```
            180                 185                 190

Glu Glu Gly Lys Lys Arg Ile Asp Lys Ser Tyr Asp Leu Tyr Ile Asp
        195                 200                 205

Arg Ala Met Ile Glu Gln Glu Phe Asp Ala Leu Trp Ala Ala Gln Ala
    210                 215                 220

Ala Phe Asn Pro Thr Leu Phe His Glu Ala Ala Arg Ala Asp Leu Lys
225                 230                 235                 240

Asp Thr Leu Leu His Gln Arg Pro Leu Arg Pro Val Lys Pro Gly Arg
                245                 250                 255

Cys Thr Leu Leu Pro Glu Glu Glu Arg Ala Pro Leu Ala Leu Pro Ser
            260                 265                 270

Thr Gln Arg Phe Arg Ile His Gln Glu Val Asn His Leu Arg Leu Leu
        275                 280                 285

Asp Glu Asn Leu Arg Glu Val Ala Leu Thr Leu Ala Gln Arg Asp Ala
    290                 295                 300

Val Val Thr Ala Leu Glu Thr Lys Ala Lys Leu Ser Phe Glu Gln Ile
305                 310                 315                 320

Arg Lys Leu Leu Lys Leu Ser Gly Ser Val Gln Phe Asn Leu Glu Asp
                325                 330                 335

Ala Lys Arg Thr Glu Leu Lys Gly Asn Ala Thr Ser Ala Ala Leu Ala
            340                 345                 350

Arg Lys Glu Leu Phe Gly Ala Ala Trp Ser Gly Phe Asp Glu Ala Leu
        355                 360                 365

Gln Asp Glu Ile Val Trp Gln Leu Val Thr Glu Glu Gly Glu Gly Ala
    370                 375                 380

Leu Ile Ala Trp Leu Gln Thr His Thr Gly Val Asp Glu Ala Arg Ala
385                 390                 395                 400

Gln Ala Ile Val Asp Val Ser Leu Pro Glu Gly Tyr Gly Asn Leu Ser
                405                 410                 415

Arg Lys Ala Leu Ala Arg Ile Val Pro Ala Leu Arg Ala Ala Val Ile
            420                 425                 430

Thr Tyr Asp Lys Ala Val Gln Ala Ala Gly Phe Asp His His Ser Gln
        435                 440                 445

Leu Gly Phe Glu Tyr Asp Ala Ser Glu Val Glu Asp Leu Val His Pro
```

```
    450                 455                 460

Glu Thr Gly Glu Ile Arg Ser Val Phe Lys Gln Leu Pro Tyr Tyr Gly
465                 470                 475                 480

Lys Ala Leu Gln Arg His Val Ala Phe Gly Ser Gly Lys Pro Glu Asp
                485                 490                 495

Pro Asp Glu Lys Arg Tyr Gly Lys Ile Ala Asn Pro Thr Val His Ile
            500                 505                 510

Gly Leu Asn Gln Val Arg Met Val Val Asn Ala Leu Ile Arg Arg Tyr
        515                 520                 525

Gly Arg Pro Thr Glu Val Val Ile Glu Leu Ala Arg Asp Leu Lys Gln
    530                 535                 540

Ser Arg Glu Gln Lys Val Glu Ala Gln Arg Arg Gln Ala Asp Asn Gln
545                 550                 555                 560

Arg Arg Asn Ala Arg Ile Arg Arg Ser Ile Ala Glu Val Leu Gly Ile
                565                 570                 575

Gly Glu Glu Arg Val Arg Gly Ser Asp Ile Gln Lys Trp Ile Cys Trp
            580                 585                 590

Glu Glu Leu Ser Phe Asp Ala Ala Asp Arg Arg Cys Pro Tyr Ser Gly
        595                 600                 605

Val Gln Ile Ser Ala Ala Met Leu Leu Ser Asp Glu Val Glu Val Glu
    610                 615                 620

His Ile Leu Pro Phe Ser Lys Thr Leu Asp Asp Ser Leu Asn Asn Arg
625                 630                 635                 640

Thr Val Ala Met Arg Gln Ala Asn Arg Ile Lys Arg Asn Arg Thr Pro
                645                 650                 655

Trp Asp Ala Arg Ala Glu Phe Glu Ala Gln Gly Trp Ser Tyr Glu Asp
            660                 665                 670

Ile Leu Gln Arg Ala Glu Arg Met Pro Leu Arg Lys Arg Tyr Arg Phe
        675                 680                 685

Ala Pro Asp Gly Tyr Glu Arg Trp Leu Gly Asp Asp Lys Asp Phe Leu
    690                 695                 700

Ala Arg Ala Leu Asn Asp Thr Arg Tyr Leu Ser Arg Val Ala Ala Glu
705                 710                 715                 720

Tyr Leu Arg Leu Val Cys Pro Gly Thr Arg Val Ile Pro Gly Gln Leu
```

725 730 735

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

Asp Gly Glu Lys Asn Arg Asn Asp His Arg His His Ala Val Asp Ala
755 760 765

Cys Val Ile Gly Val Thr Asp Gln Gly Leu Met Gln Arg Phe Ala Thr
770 775 780

Ala Ser Ala Gln Ala Arg Gly Asp Gly Leu Thr Arg Leu Val Asp Gly
785 790 795 800

Met Pro Met Pro Trp Pro Thr Tyr Arg Asp His Val Glu Arg Ala Val
805 810 815

Arg His Ile Trp Val Ser His Arg Pro Asp His Gly Phe Glu Gly Ala
820 825 830

Met Met Glu Glu Thr Ser Tyr Gly Ile Arg Lys Asp Gly Ser Ile Lys
835 840 845

Gln Arg Arg Lys Ala Asp Gly Ser Ala Gly Arg Glu Ile Ser Asn Leu
850 855 860

Ile Arg Ile His Glu Ala Thr Gln Pro Leu Arg His Gly Val Ser Ala
865 870 875 880

Asp Gly Gln Pro Leu Ala Tyr Lys Gly Tyr Val Gly Gly Ser Asn Tyr
885 890 895

Cys Ile Glu Ile Thr Val Asn Asp Lys Gly Lys Trp Glu Gly Glu Val
900 905 910

Ile Ser Thr Phe Arg Ala Tyr Gly Val Val Arg Ala Gly Gly Met Gly
915 920 925

Arg Leu Arg Asn Pro His Glu Gly Gln Asn Gly Arg Lys Leu Ile Met
930 935 940

Arg Leu Val Ile Gly Asp Ser Val Arg Leu Glu Val Asp Gly Ala Glu
945 950 955 960

Arg Thr Met Arg Ile Val Lys Ile Ser Gly Ser Asn Gly Gln Ile Phe
965 970 975

Met Ala Pro Ile His Glu Ala Asn Val Asp Ala Arg Asn Thr Asp Lys
980 985 990

Gln Asp Ala Phe Thr Tyr Thr Ser Lys Tyr Ala Gly Ser Leu Gln Lys

995 1000 1005

Ala Lys Thr Arg Arg Val Thr Ile Ser Pro Ile Gly Glu Val Arg
1010 1015 1020

Asp Pro Gly Phe Lys Gly
1025

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<212> PRT
<213> Azospirillum sp.

<400> 375

Met Ala Arg Pro Ala Phe Arg Ala Pro Arg Arg Glu His Val Asn Gly
1 5 10 15

Trp Thr Pro Asp Pro His Arg Ile Ser Lys Pro Phe Phe Ile Leu Val
20 25 30

Ser Trp His Leu Leu Ser Arg Val Val Ile Asp Ser Ser Ser Gly Cys
35 40 45

Phe Pro Gly Thr Ser Arg Asp His Thr Asp Lys Phe Ala Glu Trp Glu
50 55 60

Cys Ala Val Gln Pro Tyr Arg Leu Ser Phe Asp Leu Gly Thr Asn Ser
65 70 75 80

Ile Gly Trp Gly Leu Leu Asn Leu Asp Arg Gln Gly Lys Pro Arg Glu
85 90 95

Ile Arg Ala Leu Gly Ser Arg Ile Phe Ser Asp Gly Arg Asp Pro Gln
100 105 110

Asp Lys Ala Ser Leu Ala Val Ala Arg Arg Leu Ala Arg Gln Met Arg
115 120 125

Arg Arg Arg Asp Arg Tyr Leu Thr Arg Arg Thr Arg Leu Met Gly Ala
130 135 140

Leu Val Arg Phe Gly Leu Met Pro Ala Asp Pro Ala Ala Arg Lys Arg
145 150 155 160

Leu Glu Val Ala Val Asp Pro Tyr Leu Ala Arg Glu Arg Ala Thr Arg
165 170 175

Glu Arg Leu Glu Pro Phe Glu Ile Gly Arg Ala Leu Phe His Leu Asn
180 185 190

Gln Arg Arg Gly Tyr Lys Pro Val Arg Thr Ala Thr Lys Pro Asp Glu
195 200 205

```
Glu Ala Gly Lys Val Lys Glu Ala Val Glu Arg Leu Glu Ala Ala Ile
    210                 215                 220

Ala Ala Ala Gly Ala Pro Thr Leu Gly Ala Trp Phe Ala Trp Arg Lys
225                 230                 235                 240

Thr Arg Gly Glu Thr Leu Arg Ala Arg Leu Ala Gly Lys Gly Lys Glu
                245                 250                 255

Ala Ala Tyr Pro Phe Tyr Pro Ala Arg Arg Met Leu Glu Ala Glu Phe
            260                 265                 270

Asp Thr Leu Trp Ala Glu Gln Ala Arg His His Pro Asp Leu Leu Thr
        275                 280                 285

Ala Glu Ala Arg Glu Ile Leu Arg His Arg Ile Phe His Gln Arg Pro
    290                 295                 300

Leu Lys Pro Pro Pro Val Gly Arg Cys Thr Leu Tyr Pro Asp Asp Gly
305                 310                 315                 320

Arg Ala Pro Arg Ala Leu Pro Ser Ala Gln Arg Leu Arg Leu Phe Gln
                325                 330                 335

Glu Leu Ala Ser Leu Arg Val Ile His Leu Asp Leu Ser Glu Arg Pro
            340                 345                 350

Leu Thr Pro Ala Glu Arg Asp Arg Ile Val Ala Phe Val Gln Gly Arg
        355                 360                 365

Pro Pro Lys Ala Gly Arg Lys Pro Gly Lys Val Gln Lys Ser Val Pro
    370                 375                 380

Phe Glu Lys Leu Arg Gly Leu Leu Glu Leu Pro Pro Gly Thr Gly Phe
385                 390                 395                 400

Ser Leu Glu Ser Asp Lys Arg Pro Glu Leu Leu Gly Asp Glu Thr Gly
                405                 410                 415

Ala Arg Ile Ala Pro Ala Phe Gly Pro Gly Trp Thr Ala Leu Pro Leu
            420                 425                 430

Glu Glu Gln Asp Ala Leu Val Glu Leu Leu Leu Thr Glu Ala Glu Pro
        435                 440                 445

Glu Arg Ala Ile Ala Ala Leu Thr Ala Arg Trp Ala Leu Asp Glu Ala
    450                 455                 460

Thr Ala Ala Lys Leu Ala Gly Ala Thr Leu Pro Asp Phe His Gly Arg
465                 470                 475                 480
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```
Tyr Gly Arg Arg Ala Val Ala Glu Leu Leu Pro Val Leu Glu Arg Glu
                485                 490                 495

Thr Arg Gly Asp Pro Asp Gly Arg Val Arg Pro Ile Arg Leu Asp Glu
            500                 505                 510

Ala Val Lys Leu Leu Arg Gly Gly Lys Asp His Ser Asp Phe Ser Arg
        515                 520                 525

Glu Gly Ala Leu Leu Asp Ala Leu Pro Tyr Tyr Gly Ala Val Leu Glu
    530                 535                 540

Arg His Val Ala Phe Gly Thr Gly Asn Pro Ala Asp Pro Glu Glu Lys
545                 550                 555                 560

Arg Val Gly Arg Val Ala Asn Pro Thr Val His Ile Ala Leu Asn Gln
                565                 570                 575

Leu Arg His Leu Val Asn Ala Ile Leu Ala Arg His Gly Arg Pro Glu
            580                 585                 590

Glu Ile Val Ile Glu Leu Ala Arg Asp Leu Lys Arg Ser Ala Glu Asp
        595                 600                 605

Arg Arg Arg Glu Asp Lys Arg Gln Ala Asp Asn Gln Lys Arg Asn Glu
    610                 615                 620

Glu Arg Lys Arg Leu Ile Leu Ser Leu Gly Glu Arg Pro Thr Pro Arg
625                 630                 635                 640

Asn Leu Leu Lys Leu Arg Leu Trp Glu Glu Gln Gly Pro Val Glu Asn
                645                 650                 655

Arg Arg Cys Pro Tyr Ser Gly Glu Thr Ile Ser Met Arg Met Leu Leu
            660                 665                 670

Ser Glu Gln Val Asp Ile Asp His Ile Leu Pro Phe Ser Val Ser Leu
        675                 680                 685

Asp Asp Ser Ala Ala Asn Lys Val Val Cys Leu Arg Glu Ala Asn Arg
    690                 695                 700

Ile Lys Arg Asn Arg Ser Pro Trp Glu Ala Phe Gly His Asp Ser Glu
705                 710                 715                 720

Arg Trp Ala Gly Ile Leu Ala Arg Ala Glu Ala Leu Pro Lys Asn Lys
                725                 730                 735

Arg Trp Arg Phe Ala Pro Asp Ala Leu Glu Lys Leu Glu Gly Glu Gly
            740                 745                 750
```

```
Gly Leu Arg Ala Arg His Leu Asn Asp Thr Arg His Leu Ser Arg Leu
        755                 760                 765

Ala Val Glu Tyr Leu Arg Cys Val Cys Pro Lys Val Arg Val Ser Pro
    770                 775                 780

Gly Arg Leu Thr Ala Leu Leu Arg Arg Arg Trp Gly Ile Asp Ala Ile
785                 790                 795                 800

Leu Ala Glu Ala Asp Gly Pro Pro Pro Glu Val Pro Ala Glu Thr Leu
                805                 810                 815

Asp Pro Ser Pro Ala Glu Lys Asn Arg Ala Asp His Arg His His Ala
            820                 825                 830

Leu Asp Ala Val Val Ile Gly Cys Ile Asp Arg Ser Met Val Gln Arg
        835                 840                 845

Val Gln Leu Ala Ala Ala Ser Ala Glu Arg Glu Ala Ala Ala Arg Glu
    850                 855                 860

Asp Asn Ile Arg Arg Val Leu Glu Gly Phe Lys Glu Glu Pro Trp Asp
865                 870                 875                 880

Gly Phe Arg Ala Glu Leu Glu Arg Arg Ala Arg Thr Ile Val Val Ser
                885                 890                 895

His Arg Pro Glu His Gly Ile Gly Gly Ala Leu His Lys Glu Thr Ala
            900                 905                 910

Tyr Gly Pro Val Asp Pro Pro Glu Glu Gly Phe Asn Leu Val Val Arg
        915                 920                 925

Lys Pro Ile Asp Gly Leu Ser Lys Asp Glu Ile Asn Ser Val Arg Asp
    930                 935                 940

Pro Arg Leu Arg Arg Ala Leu Ile Asp Arg Leu Ala Ile Arg Arg Arg
945                 950                 955                 960

Asp Ala Asn Asp Pro Ala Thr Ala Leu Ala Lys Ala Ala Glu Asp Leu
                965                 970                 975

Ala Ala Gln Pro Ala Ser Arg Gly Ile Arg Arg Val Arg Val Leu Lys
            980                 985                 990

Lys Glu Ser Asn Pro Ile Arg Val  Glu His Gly Gly Asn  Pro Ser Gly
        995                 1000                1005

Pro Arg  Ser Gly Gly Pro Phe  His Lys Leu Leu Leu  Ala Gly Glu
    1010                1015                1020
```

Val His His Val Asp Val Ala Leu Arg Ala Asp Gly Arg Arg Trp
1025 1030 1035

Val Gly His Trp Val Thr Leu Phe Glu Ala His Gly Gly Arg Gly
1040 1045 1050

Ala Asp Gly Ala Ala Ala Pro Pro Arg Leu Gly Asp Gly Glu Arg
1055 1060 1065

Phe Leu Met Arg Leu His Lys Gly Asp Cys Leu Lys Leu Glu His
1070 1075 1080

Lys Gly Arg Val Arg Val Met Gln Val Val Lys Leu Glu Pro Ser
1085 1090 1095

Ser Asn Ser Val Val Val Val Glu Pro His Gln Val Lys Thr Asp
1100 1105 1110

Arg Ser Lys His Val Lys Ile Ser Cys Asp Gln Leu Arg Ala Arg
1115 1120 1125

Gly Ala Arg Arg Val Thr Val Asp Pro Leu Gly Arg Val Arg Val
1130 1135 1140

His Ala Pro Gly Ala Arg Val Gly Ile Gly Gly Asp Ala Gly Arg
1145 1150 1155

Thr Ala Met Glu Pro Ala Glu Asp Ile Ser
1160 1165

<210> 376
<211> 1064
<212> PRT
<213> Bradyrhizobium sp.

<400> 376

Met Lys Arg Thr Ser Leu Arg Ala Tyr Arg Leu Gly Val Asp Leu Gly
1 5 10 15

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

Pro Glu Gly Leu Gly Pro Gly Gly Val Arg Ile Phe Pro Asp Gly Arg
35 40 45

Asn Pro Gln Ser Lys Gln Ser Asn Ala Ala Gly Arg Arg Leu Ala Arg
50 55 60

Ser Ala Arg Arg Arg Arg Asp Arg Tyr Leu Gln Arg Arg Gly Lys Leu
65 70 75 80

```
Met Gly Leu Leu Val Lys His Gly Leu Met Pro Ala Asp Glu Pro Ala
                85                  90                  95

Arg Lys Arg Leu Glu Cys Leu Asp Pro Tyr Gly Leu Arg Ala Lys Ala
            100                 105                 110

Leu Asp Glu Val Leu Pro Leu His His Val Gly Arg Ala Leu Phe His
        115                 120                 125

Leu Asn Gln Arg Arg Gly Leu Phe Ala Asn Arg Ala Ile Glu Gln Gly
    130                 135                 140

Asp Lys Asp Ala Ser Ala Ile Lys Ala Ala Ala Gly Arg Leu Gln Thr
145                 150                 155                 160

Ser Met Gln Ala Cys Gly Ala Arg Thr Leu Gly Glu Phe Leu Asn Arg
                165                 170                 175

Arg His Gln Leu Arg Ala Thr Val Arg Ala Arg Ser Pro Val Gly Gly
            180                 185                 190

Asp Val Gln Ala Arg Tyr Glu Phe Tyr Pro Thr Arg Ala Met Val Asp
        195                 200                 205

Ala Glu Phe Glu Ala Ile Trp Ala Ala Gln Ala Pro His His Pro Thr
    210                 215                 220

Met Thr Ala Glu Ala His Asp Thr Ile Arg Glu Ala Ile Phe Ser Gln
225                 230                 235                 240

Arg Ala Met Lys Arg Pro Ser Ile Gly Lys Cys Ser Leu Asp Pro Ala
                245                 250                 255

Thr Ser Gln Asp Asp Val Asp Gly Phe Arg Cys Ala Trp Ser His Pro
            260                 265                 270

Leu Ala Gln Arg Phe Arg Ile Trp Gln Asp Val Arg Asn Leu Ala Val
        275                 280                 285

Val Glu Thr Gly Pro Thr Ser Ser Arg Leu Gly Lys Glu Asp Gln Asp
    290                 295                 300

Lys Val Ala Arg Ala Leu Leu Gln Thr Asp Gln Leu Ser Phe Asp Glu
305                 310                 315                 320

Ile Arg Gly Leu Leu Gly Leu Pro Ser Asp Ala Arg Phe Asn Leu Glu
                325                 330                 335

Ser Asp Arg Arg Asp His Leu Lys Gly Asp Ala Thr Gly Ala Ile Leu
            340                 345                 350
```

```
Ser Ala Arg Arg His Phe Gly Pro Ala Trp His Asp Arg Ser Leu Asp
        355                 360                 365

Arg Gln Ile Asp Ile Val Ala Leu Leu Glu Ser Ala Leu Asp Glu Ala
    370                 375                 380

Ala Ile Ile Ala Ser Leu Gly Thr Thr His Ser Leu Asp Glu Ala Ala
385                 390                 395                 400

Ala Gln Arg Ala Leu Ser Ala Leu Leu Pro Asp Gly Tyr Cys Arg Leu
                405                 410                 415

Gly Leu Arg Ala Ile Lys Arg Val Leu Pro Leu Met Glu Ala Gly Arg
            420                 425                 430

Thr Tyr Ala Glu Ala Ala Ser Ala Ala Gly Tyr Asp His Ala Leu Leu
        435                 440                 445

Pro Gly Gly Lys Leu Ser Pro Thr Gly Tyr Leu Pro Tyr Tyr Gly Gln
    450                 455                 460

Trp Leu Gln Asn Asp Val Val Gly Ser Asp Asp Glu Arg Asp Thr Asn
465                 470                 475                 480

Glu Arg Arg Trp Gly Arg Leu Pro Asn Pro Thr Val His Ile Gly Ile
                485                 490                 495

Gly Gln Leu Arg Arg Val Val Asn Glu Leu Ile Arg Trp His Gly Pro
            500                 505                 510

Pro Ala Glu Ile Thr Val Glu Leu Thr Arg Asp Leu Lys Leu Ser Pro
        515                 520                 525

Arg Arg Leu Ala Glu Leu Glu Arg Glu Gln Ala Glu Asn Gln Arg Lys
    530                 535                 540

Asn Asp Lys Arg Thr Ser Leu Leu Arg Lys Leu Gly Leu Pro Ala Ser
545                 550                 555                 560

Thr His Asn Leu Leu Lys Leu Arg Leu Trp Asp Glu Gln Gly Asp Val
                565                 570                 575

Ala Ser Glu Cys Pro Tyr Thr Gly Glu Ala Ile Gly Leu Glu Arg Leu
            580                 585                 590

Val Ser Asp Asp Val Asp Ile Asp His Leu Ile Pro Phe Ser Ile Ser
        595                 600                 605

Trp Asp Asp Ser Ala Ala Asn Lys Val Val Cys Met Arg Tyr Ala Asn
    610                 615                 620
```

```
Arg Glu Lys Gly Asn Arg Thr Pro Phe Glu Ala Phe Gly His Arg Gln
625                 630                 635                 640

Gly Arg Pro Tyr Asp Trp Ala Asp Ile Ala Glu Arg Ala Ala Arg Leu
                645                 650                 655

Pro Arg Gly Lys Arg Trp Arg Phe Gly Pro Gly Ala Arg Ala Gln Phe
            660                 665                 670

Glu Glu Leu Gly Asp Phe Gln Ala Arg Leu Leu Asn Glu Thr Ser Trp
        675                 680                 685

Leu Ala Arg Val Ala Lys Gln Tyr Leu Ala Ala Val Thr His Pro His
    690                 695                 700

Arg Ile His Val Leu Pro Gly Arg Leu Thr Ala Leu Leu Arg Ala Thr
705                 710                 715                 720

Trp Glu Leu Asn Asp Leu Leu Pro Gly Ser Asp Asp Arg Ala Ala Lys
                725                 730                 735

Ser Arg Lys Asp His Arg His His Ala Ile Asp Ala Leu Val Ala Ala
            740                 745                 750

Leu Thr Asp Gln Ala Leu Leu Arg Arg Met Ala Asn Ala His Asp Asp
        755                 760                 765

Thr Arg Arg Lys Ile Glu Val Leu Leu Pro Trp Pro Thr Phe Arg Ile
    770                 775                 780

Asp Leu Glu Thr Arg Leu Lys Ala Met Leu Val Ser His Lys Pro Asp
785                 790                 795                 800

His Gly Leu Gln Ala Arg Leu His Glu Asp Thr Ala Tyr Gly Thr Val
                805                 810                 815

Glu His Pro Glu Thr Glu Asp Gly Ala Asn Leu Val Tyr Arg Lys Thr
            820                 825                 830

Phe Val Asp Ile Ser Glu Lys Glu Ile Asp Arg Ile Arg Asp Arg Arg
        835                 840                 845

Leu Arg Asp Leu Val Arg Ala His Val Ala Gly Glu Arg Gln Gln Gly
    850                 855                 860

Lys Thr Leu Lys Ala Ala Val Leu Ser Phe Ala Gln Arg Arg Asp Ile
865                 870                 875                 880

Ala Gly His Pro Asn Gly Ile Arg His Val Arg Leu Thr Lys Ser Ile
                885                 890                 895
```

Lys Pro Asp Tyr Leu Val Pro Ile Arg Asp Lys Ala Gly Arg Ile Tyr
900 905 910

Lys Ser Tyr Asn Ala Gly Glu Asn Ala Phe Val Asp Ile Leu Gln Ala
915 920 925

Glu Ser Gly Arg Trp Ile Ala Arg Ala Thr Thr Val Phe Gln Ala Asn
930 935 940

Gln Ala Asn Glu Ser His Asp Ala Pro Ala Ala Gln Pro Ile Met Arg
945 950 955 960

Val Phe Lys Gly Asp Met Leu Arg Ile Asp His Ala Gly Ala Glu Lys
965 970 975

Phe Val Lys Ile Val Arg Leu Ser Pro Ser Asn Asn Leu Leu Tyr Leu
980 985 990

Val Glu His His Gln Ala Gly Val Phe Gln Thr Arg His Asp Asp Pro
995 1000 1005

Glu Asp Ser Phe Arg Trp Leu Phe Ala Ser Phe Asp Lys Leu Arg
1010 1015 1020

Glu Trp Asn Ala Glu Leu Val Arg Ile Asp Thr Leu Gly Gln Pro
1025 1030 1035

Trp Arg Arg Lys Arg Gly Leu Glu Thr Gly Ser Glu Asp Ala Thr
1040 1045 1050

Arg Ile Gly Trp Thr Arg Pro Lys Lys Trp Pro
1055 1060

<210> 377
<211> 1037
<212> PRT
<213> Parvibaculum lavamentivorans

<400> 377

Met Glu Arg Ile Phe Gly Phe Asp Ile Gly Thr Thr Ser Ile Gly Phe
1 5 10 15

Ser Val Ile Asp Tyr Ser Ser Thr Gln Ser Ala Gly Asn Ile Gln Arg
20 25 30

Leu Gly Val Arg Ile Phe Pro Glu Ala Arg Asp Pro Asp Gly Thr Pro
35 40 45

Leu Asn Gln Gln Arg Arg Gln Lys Arg Met Met Arg Arg Gln Leu Arg
50 55 60

```
Arg Arg Arg Ile Arg Arg Lys Ala Leu Asn Glu Thr Leu His Glu Ala
65                  70                  75                  80

Gly Phe Leu Pro Ala Tyr Gly Ser Ala Asp Trp Pro Val Val Met Ala
                85                  90                  95

Asp Glu Pro Tyr Glu Leu Arg Arg Arg Gly Leu Glu Glu Gly Leu Ser
            100                 105                 110

Ala Tyr Glu Phe Gly Arg Ala Ile Tyr His Leu Ala Gln His Arg His
        115                 120                 125

Phe Lys Gly Arg Glu Leu Glu Glu Ser Asp Thr Pro Asp Pro Asp Val
    130                 135                 140

Asp Asp Glu Lys Glu Ala Ala Asn Glu Arg Ala Ala Thr Leu Lys Ala
145                 150                 155                 160

Leu Lys Asn Glu Gln Thr Thr Leu Gly Ala Trp Leu Ala Arg Arg Pro
                165                 170                 175

Pro Ser Asp Arg Lys Arg Gly Ile His Ala His Arg Asn Val Val Ala
            180                 185                 190

Glu Glu Phe Glu Arg Leu Trp Glu Val Gln Ser Lys Phe His Pro Ala
        195                 200                 205

Leu Lys Ser Glu Glu Met Arg Ala Arg Ile Ser Asp Thr Ile Phe Ala
    210                 215                 220

Gln Arg Pro Val Phe Trp Arg Lys Asn Thr Leu Gly Glu Cys Arg Phe
225                 230                 235                 240

Met Pro Gly Glu Pro Leu Cys Pro Lys Gly Ser Trp Leu Ser Gln Gln
                245                 250                 255

Arg Arg Met Leu Glu Lys Leu Asn Asn Leu Ala Ile Ala Gly Gly Asn
            260                 265                 270

Ala Arg Pro Leu Asp Ala Glu Glu Arg Asp Ala Ile Leu Ser Lys Leu
        275                 280                 285

Gln Gln Gln Ala Ser Met Ser Trp Pro Gly Val Arg Ser Ala Leu Lys
    290                 295                 300

Ala Leu Tyr Lys Gln Arg Gly Glu Pro Gly Ala Glu Lys Ser Leu Lys
305                 310                 315                 320

Phe Asn Leu Glu Leu Gly Gly Glu Ser Lys Leu Leu Gly Asn Ala Leu
                325                 330                 335
```

```
Glu Ala Lys Leu Ala Asp Met Phe Gly Pro Asp Trp Pro Ala His Pro
            340                 345                 350

Arg Lys Gln Glu Ile Arg His Ala Val His Glu Arg Leu Trp Ala Ala
        355                 360                 365

Asp Tyr Gly Glu Thr Pro Asp Lys Lys Arg Val Ile Ile Leu Ser Glu
    370                 375                 380

Lys Asp Arg Lys Ala His Arg Glu Ala Ala Ala Asn Ser Phe Val Ala
385                 390                 395                 400

Asp Phe Gly Ile Thr Gly Glu Gln Ala Ala Gln Leu Gln Ala Leu Lys
                405                 410                 415

Leu Pro Thr Gly Trp Glu Pro Tyr Ser Ile Pro Ala Leu Asn Leu Phe
            420                 425                 430

Leu Ala Glu Leu Glu Lys Gly Glu Arg Phe Gly Ala Leu Val Asn Gly
        435                 440                 445

Pro Asp Trp Glu Gly Trp Arg Arg Thr Asn Phe Pro His Arg Asn Gln
    450                 455                 460

Pro Thr Gly Glu Ile Leu Asp Lys Leu Pro Ser Pro Ala Ser Lys Glu
465                 470                 475                 480

Glu Arg Glu Arg Ile Ser Gln Leu Arg Asn Pro Thr Val Val Arg Thr
                485                 490                 495

Gln Asn Glu Leu Arg Lys Val Val Asn Asn Leu Ile Gly Leu Tyr Gly
            500                 505                 510

Lys Pro Asp Arg Ile Arg Ile Glu Val Gly Arg Asp Val Gly Lys Ser
        515                 520                 525

Lys Arg Glu Arg Glu Glu Ile Gln Ser Gly Ile Arg Arg Asn Glu Lys
    530                 535                 540

Gln Arg Lys Lys Ala Thr Glu Asp Leu Ile Lys Asn Gly Ile Ala Asn
545                 550                 555                 560

Pro Ser Arg Asp Asp Val Glu Lys Trp Ile Leu Trp Lys Glu Gly Gln
                565                 570                 575

Glu Arg Cys Pro Tyr Thr Gly Asp Gln Ile Gly Phe Asn Ala Leu Phe
            580                 585                 590

Arg Glu Gly Arg Tyr Glu Val Glu His Ile Trp Pro Arg Ser Arg Ser
        595                 600                 605
```

```
Phe Asp Asn Ser Pro Arg Asn Lys Thr Leu Cys Arg Lys Asp Val Asn
    610                 615                 620

Ile Glu Lys Gly Asn Arg Met Pro Phe Glu Ala Phe Gly His Asp Glu
625                 630                 635                 640

Asp Arg Trp Ser Ala Ile Gln Ile Arg Leu Gln Gly Met Val Ser Ala
                645                 650                 655

Lys Gly Gly Thr Gly Met Ser Pro Gly Lys Val Lys Arg Phe Leu Ala
            660                 665                 670

Lys Thr Met Pro Glu Asp Phe Ala Ala Arg Gln Leu Asn Asp Thr Arg
        675                 680                 685

Tyr Ala Ala Lys Gln Ile Leu Ala Gln Leu Lys Arg Leu Trp Pro Asp
    690                 695                 700

Met Gly Pro Glu Ala Pro Val Lys Val Glu Ala Val Thr Gly Gln Val
705                 710                 715                 720

Thr Ala Gln Leu Arg Lys Leu Trp Thr Leu Asn Asn Ile Leu Ala Asp
                725                 730                 735

Asp Gly Glu Lys Thr Arg Ala Asp His Arg His His Ala Ile Asp Ala
            740                 745                 750

Leu Thr Val Ala Cys Thr His Pro Gly Met Thr Asn Lys Leu Ser Arg
        755                 760                 765

Tyr Trp Gln Leu Arg Asp Asp Pro Arg Ala Glu Lys Pro Ala Leu Thr
    770                 775                 780

Pro Pro Trp Asp Thr Ile Arg Ala Asp Ala Glu Lys Ala Val Ser Glu
785                 790                 795                 800

Ile Val Val Ser His Arg Val Arg Lys Lys Val Ser Gly Pro Leu His
                805                 810                 815

Lys Glu Thr Thr Tyr Gly Asp Thr Gly Thr Asp Ile Lys Thr Lys Ser
            820                 825                 830

Gly Thr Tyr Arg Gln Phe Val Thr Arg Lys Lys Ile Glu Ser Leu Ser
        835                 840                 845

Lys Gly Glu Leu Asp Glu Ile Arg Asp Pro Arg Ile Lys Glu Ile Val
    850                 855                 860

Ala Ala His Val Ala Gly Arg Gly Gly Asp Pro Lys Lys Ala Phe Pro
865                 870                 875                 880
```

Pro Tyr Pro Cys Val Ser Pro Gly Gly Pro Glu Ile Arg Lys Val Arg
885 890 895

Leu Thr Ser Lys Gln Gln Leu Asn Leu Met Ala Gln Thr Gly Asn Gly
900 905 910

Tyr Ala Asp Leu Gly Ser Asn His His Ile Ala Ile Tyr Arg Leu Pro
915 920 925

Asp Gly Lys Ala Asp Phe Glu Ile Val Ser Leu Phe Asp Ala Ser Arg
930 935 940

Arg Leu Ala Gln Arg Asn Pro Ile Val Gln Arg Thr Arg Ala Asp Gly
945 950 955 960

Ala Ser Phe Val Met Ser Leu Ala Ala Gly Glu Ala Ile Met Ile Pro
965 970 975

Glu Gly Ser Lys Lys Gly Ile Trp Ile Val Gln Gly Val Trp Ala Ser
980 985 990

Gly Gln Val Val Leu Glu Arg Asp Thr Asp Ala Asp His Ser Thr Thr
995 1000 1005

Thr Arg Pro Met Pro Asn Pro Ile Leu Lys Asp Asp Ala Lys Lys
1010 1015 1020

Val Ser Ile Asp Pro Ile Gly Arg Val Arg Pro Ser Asn Asp
1025 1030 1035

<210> 378
<211> 1218
<212> PRT
<213> Prevotella timonensis

<400> 378

Met Asn Lys Arg Ile Leu Gly Leu Asp Thr Gly Thr Asn Ser Leu Gly
1 5 10 15

Trp Ala Val Val Asp Trp Asp Glu His Ala Gln Ser Tyr Glu Leu Ile
20 25 30

Lys Tyr Gly Asp Val Ile Phe Gln Glu Gly Val Lys Ile Glu Lys Gly
35 40 45

Ile Glu Ser Ser Lys Ala Ala Glu Arg Ser Gly Tyr Lys Ala Ile Arg
50 55 60

Lys Gln Tyr Phe Arg Arg Arg Leu Arg Lys Ile Gln Val Leu Lys Val
65 70 75 80

Leu Val Lys Tyr His Leu Cys Pro Tyr Leu Ser Asp Asp Asp Leu Arg

85 90 95

Gln Trp His Leu Gln Lys Gln Tyr Pro Lys Ser Asp Glu Leu Met Leu
100 105 110

Trp Gln Arg Thr Ser Asp Glu Glu Gly Lys Asn Pro Tyr Tyr Asp Arg
115 120 125

His Arg Cys Leu His Glu Lys Leu Asp Leu Thr Val Glu Ala Asp Arg
130 135 140

Tyr Thr Leu Gly Arg Ala Leu Tyr His Leu Thr Gln Arg Arg Gly Phe
145 150 155 160

Leu Ser Asn Arg Leu Asp Thr Ser Ala Asp Asn Lys Glu Asp Gly Val
165 170 175

Val Lys Ser Gly Ile Ser Gln Leu Ser Thr Glu Met Glu Glu Ala Gly
180 185 190

Cys Glu Tyr Leu Gly Asp Tyr Phe Tyr Lys Leu Tyr Asp Ala Gln Gly
195 200 205

Asn Lys Val Arg Ile Arg Gln Arg Tyr Thr Asp Arg Asn Lys His Tyr
210 215 220

Gln His Glu Phe Asp Ala Ile Cys Glu Lys Gln Glu Leu Ser Ser Glu
225 230 235 240

Leu Ile Glu Asp Leu Gln Arg Ala Ile Phe Phe Gln Leu Pro Leu Lys
245 250 255

Ser Gln Arg His Gly Val Gly Arg Cys Thr Phe Glu Arg Gly Lys Pro
260 265 270

Arg Cys Ala Asp Ser His Pro Asp Tyr Glu Glu Phe Arg Met Leu Cys
275 280 285

Phe Val Asn Asn Ile Gln Val Lys Gly Pro His Asp Leu Glu Leu Arg
290 295 300

Pro Leu Thr Tyr Glu Glu Arg Glu Lys Ile Glu Pro Leu Phe Phe Arg
305 310 315 320

Lys Ser Lys Pro Asn Phe Asp Phe Glu Asp Ile Ala Lys Ala Leu Ala
325 330 335

Gly Lys Lys Asn Tyr Ala Trp Ile His Asp Lys Glu Glu Arg Ala Tyr
340 345 350

Lys Phe Asn Tyr Arg Met Thr Gln Gly Val Pro Gly Cys Pro Thr Ile

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        355                 360                 365

Ala Gln Leu Lys Ser Ile Phe Gly Asp Asp Trp Lys Thr Gly Ile Ala
    370                 375                 380

Glu Thr Tyr Thr Leu Ile Gln Lys Lys Asn Gly Ser Lys Ser Leu Gln
385                 390                 395                 400

Glu Met Val Asp Asp Val Trp Asn Val Leu Tyr Ser Phe Ser Ser Val
                405                 410                 415

Glu Lys Leu Lys Glu Phe Ala His His Lys Leu Gln Leu Asp Glu Glu
            420                 425                 430

Ser Ala Glu Lys Phe Ala Lys Ile Lys Leu Ser His Ser Phe Ala Ala
        435                 440                 445

Leu Ser Leu Lys Ala Ile Arg Lys Phe Leu Pro Phe Leu Arg Lys Gly
    450                 455                 460

Met Tyr Tyr Thr His Ala Ser Phe Phe Ala Asn Ile Pro Thr Ile Val
465                 470                 475                 480

Gly Lys Glu Ile Trp Asn Lys Glu Gln Asn Arg Lys Tyr Ile Met Glu
                485                 490                 495

Asn Val Gly Glu Leu Val Phe Asn Tyr Gln Pro Lys His Arg Glu Val
            500                 505                 510

Gln Gly Thr Ile Glu Met Leu Ile Lys Asp Phe Leu Ala Asn Asn Phe
        515                 520                 525

Glu Leu Pro Ala Gly Ala Thr Asp Lys Leu Tyr His Pro Ser Met Ile
    530                 535                 540

Glu Thr Tyr Pro Asn Ala Gln Arg Asn Glu Phe Gly Ile Leu Gln Leu
545                 550                 555                 560

Gly Ser Pro Arg Thr Asn Ala Ile Arg Asn Pro Met Ala Met Arg Ser
                565                 570                 575

Leu His Ile Leu Arg Arg Val Val Asn Gln Leu Leu Lys Glu Ser Ile
            580                 585                 590

Ile Asp Glu Asn Thr Glu Val His Val Glu Tyr Ala Arg Glu Leu Asn
        595                 600                 605

Asp Ala Asn Lys Arg Arg Ala Ile Ala Asp Arg Gln Lys Glu Gln Asp
    610                 615                 620

Lys Gln His Lys Lys Tyr Gly Asp Glu Ile Arg Lys Leu Tyr Lys Glu
```

625 630 635 640

Glu Thr Gly Lys Asp Ile Glu Pro Thr Gln Thr Asp Val Leu Lys Phe
645 650 655

Gln Leu Trp Glu Glu Gln Asn His His Cys Leu Tyr Thr Gly Glu Gln
660 665 670

Ile Gly Ile Thr Asp Phe Ile Gly Ser Asn Pro Lys Phe Asp Ile Glu
675 680 685

His Thr Ile Pro Gln Ser Val Gly Gly Asp Ser Thr Gln Met Asn Leu
690 695 700

Thr Leu Cys Asp Asn Arg Phe Asn Arg Glu Val Lys Lys Ala Lys Leu
705 710 715 720

Pro Thr Glu Leu Ala Asn His Glu Glu Ile Leu Thr Arg Ile Glu Pro
725 730 735

Trp Lys Asn Lys Tyr Glu Gln Leu Val Lys Glu Arg Asp Lys Gln Arg
740 745 750

Thr Phe Ala Gly Met Asp Lys Ala Val Lys Asp Ile Arg Ile Gln Lys
755 760 765

Arg His Lys Leu Gln Met Glu Ile Asp Tyr Trp Arg Gly Lys Tyr Glu
770 775 780

Arg Phe Thr Met Thr Glu Val Pro Glu Gly Phe Ser Arg Arg Gln Gly
785 790 795 800

Thr Gly Ile Gly Leu Ile Ser Arg Tyr Ala Gly Leu Tyr Leu Lys Ser
805 810 815

Leu Phe His Gln Ala Asp Ser Arg Asn Lys Ser Asn Val Tyr Val Val
820 825 830

Lys Gly Val Ala Thr Ala Glu Phe Arg Lys Met Trp Gly Leu Gln Ser
835 840 845

Glu Tyr Glu Lys Lys Cys Arg Asp Asn His Ser His His Cys Met Asp
850 855 860

Ala Ile Thr Ile Ala Cys Ile Gly Lys Arg Glu Tyr Asp Leu Met Ala
865 870 875 880

Glu Tyr Tyr Arg Met Glu Glu Thr Phe Lys Gln Gly Arg Gly Ser Lys
885 890 895

Pro Lys Phe Ser Lys Pro Trp Ala Thr Phe Thr Glu Asp Val Leu Asn

900 905 910

Ile Tyr Lys Asn Leu Leu Val Val His Asp Thr Pro Asn Asn Met Pro
915 920 925

Lys His Thr Lys Lys Tyr Val Gln Thr Ser Ile Gly Lys Val Leu Ala
930 935 940

Gln Gly Asp Thr Ala Arg Gly Ser Leu His Leu Asp Thr Tyr Tyr Gly
945 950 955 960

Ala Ile Glu Arg Asp Gly Glu Ile Arg Tyr Val Val Arg Arg Pro Leu
965 970 975

Ser Ser Phe Thr Lys Pro Glu Glu Leu Glu Asn Ile Val Asp Glu Thr
980 985 990

Val Lys Arg Thr Ile Lys Glu Ala Ile Ala Asp Lys Asn Phe Lys Gln
995 1000 1005

Ala Ile Ala Glu Pro Ile Tyr Met Asn Glu Glu Lys Gly Ile Leu
1010 1015 1020

Ile Lys Lys Val Arg Cys Phe Ala Lys Ser Val Lys Gln Pro Ile
1025 1030 1035

Asn Ile Arg Gln His Arg Asp Leu Ser Lys Lys Glu Tyr Lys Gln
1040 1045 1050

Gln Tyr His Val Met Asn Glu Asn Asn Tyr Leu Leu Ala Ile Tyr
1055 1060 1065

Glu Gly Leu Val Lys Asn Lys Val Val Arg Glu Phe Glu Ile Val
1070 1075 1080

Ser Tyr Ile Glu Ala Ala Lys Tyr Tyr Lys Arg Ser Gln Asp Arg
1085 1090 1095

Asn Ile Phe Ser Ser Ile Val Pro Thr His Ser Thr Lys Tyr Gly
1100 1105 1110

Leu Pro Leu Lys Thr Lys Leu Leu Met Gly Gln Leu Val Leu Met
1115 1120 1125

Phe Glu Glu Asn Pro Asp Glu Ile Gln Val Asp Asn Thr Lys Asp
1130 1135 1140

Leu Val Lys Arg Leu Tyr Lys Val Val Gly Ile Glu Lys Asp Gly
1145 1150 1155

Arg Ile Lys Phe Lys Tyr His Gln Glu Ala Arg Lys Glu Gly Leu

1160 1165 1170

Pro Ile Phe Ser Thr Pro Tyr Lys Asn Asn Asp Asp Tyr Ala Pro
1175 1180 1185

Ile Phe Arg Gln Ser Ile Asn Asn Ile Asn Ile Leu Val Asp Gly
1190 1195 1200

Ile Asp Phe Thr Ile Asp Ile Leu Gly Lys Val Thr Leu Lys Glu
1205 1210 1215

<210> 379
<211> 1088
<212> PRT
<213> Bacillus smithii

<400> 379

Met Asn Tyr Lys Met Gly Leu Asp Ile Gly Ile Ala Ser Val Gly Trp
1 5 10 15

Ala Val Ile Asn Leu Asp Leu Lys Arg Ile Glu Asp Leu Gly Val Arg
20 25 30

Ile Phe Asp Lys Ala Glu His Pro Gln Asn Gly Glu Ser Leu Ala Leu
35 40 45

Pro Arg Arg Ile Ala Arg Ser Ala Arg Arg Arg Leu Arg Arg Arg Lys
50 55 60

His Arg Leu Glu Arg Ile Arg Arg Leu Leu Val Ser Glu Asn Val Leu
65 70 75 80

Thr Lys Glu Glu Met Asn Leu Leu Phe Lys Gln Lys Lys Gln Ile Asp
85 90 95

Val Trp Gln Leu Arg Val Asp Ala Leu Glu Arg Lys Leu Asn Asn Asp
100 105 110

Glu Leu Ala Arg Val Leu Leu His Leu Ala Lys Arg Arg Gly Phe Lys
115 120 125

Ser Asn Arg Lys Ser Glu Arg Asn Ser Lys Glu Ser Ser Glu Phe Leu
130 135 140

Lys Asn Ile Glu Glu Asn Gln Ser Ile Leu Ala Gln Tyr Arg Ser Val
145 150 155 160

Gly Glu Met Ile Val Lys Asp Ser Lys Phe Ala Tyr His Lys Arg Asn
165 170 175

Lys Leu Asp Ser Tyr Ser Asn Met Ile Ala Arg Asp Asp Leu Glu Arg
180 185 190

```
Glu Ile Lys Leu Ile Phe Glu Lys Gln Arg Glu Phe Asn Asn Pro Val
        195                 200                 205

Cys Thr Glu Arg Leu Glu Glu Lys Tyr Leu Asn Ile Trp Ser Ser Gln
    210                 215                 220

Arg Pro Phe Ala Ser Lys Glu Asp Ile Glu Lys Lys Val Gly Phe Cys
225                 230                 235                 240

Thr Phe Glu Pro Lys Glu Lys Arg Ala Pro Lys Ala Thr Tyr Thr Phe
                245                 250                 255

Gln Ser Phe Ile Val Trp Glu His Ile Asn Lys Leu Arg Leu Val Ser
            260                 265                 270

Pro Asp Glu Thr Arg Ala Leu Thr Glu Ile Glu Arg Asn Leu Leu Tyr
        275                 280                 285

Lys Gln Ala Phe Ser Lys Asn Lys Met Thr Tyr Tyr Asp Ile Arg Lys
    290                 295                 300

Leu Leu Asn Leu Ser Asp Asp Ile His Phe Lys Gly Leu Leu Tyr Asp
305                 310                 315                 320

Pro Lys Ser Ser Leu Lys Gln Ile Glu Asn Ile Arg Phe Leu Glu Leu
                325                 330                 335

Asp Ser Tyr His Lys Ile Arg Lys Cys Ile Glu Asn Val Tyr Gly Lys
            340                 345                 350

Asp Gly Ile Arg Met Phe Asn Glu Thr Asp Ile Asp Thr Phe Gly Tyr
        355                 360                 365

Ala Leu Thr Ile Phe Lys Asp Asp Glu Asp Ile Val Ala Tyr Leu Gln
    370                 375                 380

Asn Glu Tyr Ile Thr Lys Asn Gly Lys Arg Val Ser Asn Leu Ala Asn
385                 390                 395                 400

Lys Val Tyr Asp Lys Ser Leu Ile Asp Glu Leu Leu Asn Leu Ser Phe
                405                 410                 415

Ser Lys Phe Ala His Leu Ser Met Lys Ala Ile Arg Asn Ile Leu Pro
            420                 425                 430

Tyr Met Glu Gln Gly Glu Ile Tyr Ser Lys Ala Cys Glu Leu Ala Gly
        435                 440                 445

Tyr Asn Phe Thr Gly Pro Lys Lys Lys Glu Lys Ala Leu Leu Leu Pro
    450                 455                 460
```

```
Val Ile Pro Asn Ile Ala Asn Pro Val Val Met Arg Ala Leu Thr Gln
465                 470                 475                 480

Ser Arg Lys Val Val Asn Ala Ile Ile Lys Lys Tyr Gly Ser Pro Val
                485                 490                 495

Ser Ile His Ile Glu Leu Ala Arg Asp Leu Ser His Ser Phe Asp Glu
            500                 505                 510

Arg Lys Lys Ile Gln Lys Asp Gln Thr Glu Asn Arg Lys Lys Asn Glu
        515                 520                 525

Thr Ala Ile Lys Gln Leu Ile Glu Tyr Glu Leu Thr Lys Asn Pro Thr
    530                 535                 540

Gly Leu Asp Ile Val Lys Phe Lys Leu Trp Ser Glu Gln Gln Gly Arg
545                 550                 555                 560

Cys Met Tyr Ser Leu Lys Pro Ile Glu Leu Glu Arg Leu Leu Glu Pro
                565                 570                 575

Gly Tyr Val Glu Val Asp His Ile Leu Pro Tyr Ser Arg Ser Leu Asp
            580                 585                 590

Asp Ser Tyr Ala Asn Lys Val Leu Val Leu Thr Lys Glu Asn Arg Glu
        595                 600                 605

Lys Gly Asn His Thr Pro Val Glu Tyr Leu Gly Leu Gly Ser Glu Arg
    610                 615                 620

Trp Lys Lys Phe Glu Lys Phe Val Leu Ala Asn Lys Gln Phe Ser Lys
625                 630                 635                 640

Lys Lys Lys Gln Asn Leu Leu Arg Leu Arg Tyr Glu Glu Thr Glu Glu
                645                 650                 655

Lys Glu Phe Lys Glu Arg Asn Leu Asn Asp Thr Arg Tyr Ile Ser Lys
            660                 665                 670

Phe Phe Ala Asn Phe Ile Lys Glu His Leu Lys Phe Ala Asp Gly Asp
        675                 680                 685

Gly Gly Gln Lys Val Tyr Thr Ile Asn Gly Lys Ile Thr Ala His Leu
    690                 695                 700

Arg Ser Arg Trp Asp Phe Asn Lys Asn Arg Glu Glu Ser Asp Leu His
705                 710                 715                 720

His Ala Val Asp Ala Val Ile Val Ala Cys Ala Thr Gln Gly Met Ile
                725                 730                 735
```

```
Lys Lys Ile Thr Glu Phe Tyr Lys Ala Arg Glu Gln Asn Lys Glu Ser
            740                 745                 750

Ala Lys Lys Lys Glu Pro Ile Phe Pro Gln Pro Trp Pro His Phe Ala
        755                 760                 765

Asp Glu Leu Lys Ala Arg Leu Ser Lys Phe Pro Gln Glu Ser Ile Glu
    770                 775                 780

Ala Phe Ala Leu Gly Asn Tyr Asp Arg Lys Lys Leu Glu Ser Leu Arg
785                 790                 795                 800

Pro Val Phe Val Ser Arg Met Pro Lys Arg Ser Val Thr Gly Ala Ala
                805                 810                 815

His Gln Glu Thr Leu Arg Arg Cys Val Gly Ile Asp Glu Gln Ser Gly
            820                 825                 830

Lys Ile Gln Thr Ala Val Lys Thr Lys Leu Ser Asp Ile Lys Leu Asp
        835                 840                 845

Lys Asp Gly His Phe Pro Met Tyr Gln Lys Glu Ser Asp Pro Arg Thr
    850                 855                 860

Tyr Glu Ala Ile Arg Gln Arg Leu Leu Glu His Asn Asn Asp Pro Lys
865                 870                 875                 880

Lys Ala Phe Gln Glu Pro Leu Tyr Lys Pro Lys Lys Asn Gly Glu Pro
                885                 890                 895

Gly Pro Val Ile Arg Thr Val Lys Ile Ile Asp Thr Lys Asn Lys Val
            900                 905                 910

Val His Leu Asp Gly Ser Lys Thr Val Ala Tyr Asn Ser Asn Ile Val
        915                 920                 925

Arg Thr Asp Val Phe Glu Lys Asp Gly Lys Tyr Tyr Cys Val Pro Val
    930                 935                 940

Tyr Thr Met Asp Ile Met Lys Gly Thr Leu Pro Asn Lys Ala Ile Glu
945                 950                 955                 960

Ala Asn Lys Pro Tyr Ser Glu Trp Lys Glu Met Thr Glu Glu Tyr Thr
                965                 970                 975

Phe Gln Phe Ser Leu Phe Pro Asn Asp Leu Val Arg Ile Val Leu Pro
            980                 985                 990

Arg Glu Lys Thr Ile Lys Thr Ser  Thr Asn Glu Glu Ile  Ile Ile Lys
        995                 1000                1005
```

Asp Ile Phe Ala Tyr Tyr Lys Thr Ile Asp Ser Ala Thr Gly Gly
1010 1015 1020

Leu Glu Leu Ile Ser His Asp Arg Asn Phe Ser Leu Arg Gly Val
1025 1030 1035

Gly Ser Lys Thr Leu Lys Arg Phe Glu Lys Tyr Gln Val Asp Val
1040 1045 1050

Leu Gly Asn Ile His Lys Val Lys Gly Glu Lys Arg Val Gly Leu
1055 1060 1065

Ala Ala Pro Thr Asn Gln Lys Lys Gly Lys Thr Val Asp Ser Leu
1070 1075 1080

Gln Ser Val Ser Asp
1085

<210> 380
<211> 1035
<212> PRT
<213> Puniceispirillum marinum

<400> 380

Met Arg Arg Leu Gly Leu Asp Leu Gly Thr Asn Ser Ile Gly Trp Cys
1 5 10 15

Leu Leu Asp Leu Gly Asp Asp Gly Glu Pro Val Ser Ile Phe Arg Thr
20 25 30

Gly Ala Arg Ile Phe Ser Asp Gly Arg Asp Pro Lys Ser Leu Gly Ser
35 40 45

Leu Lys Ala Thr Arg Arg Glu Ala Arg Leu Thr Arg Arg Arg Arg Asp
50 55 60

Arg Phe Ile Gln Arg Gln Lys Asn Leu Ile Asn Ala Leu Val Lys Tyr
65 70 75 80

Gly Leu Met Pro Ala Asp Glu Ile Gln Arg Gln Ala Leu Ala Tyr Lys
85 90 95

Asp Pro Tyr Pro Ile Arg Lys Lys Ala Leu Asp Glu Ala Ile Asp Pro
100 105 110

Tyr Glu Met Gly Arg Ala Ile Phe His Ile Asn Gln Arg Arg Gly Phe
115 120 125

Lys Ser Asn Arg Lys Ser Ala Asp Asn Glu Ala Gly Val Val Lys Gln
130 135 140

```
Ser Ile Ala Asp Leu Glu Met Lys Leu Gly Glu Ala Gly Ala Arg Thr
145                 150                 155                 160

Ile Gly Glu Phe Leu Ala Asp Arg Gln Ala Thr Asn Asp Thr Val Arg
                165                 170                 175

Ala Arg Arg Leu Ser Gly Thr Asn Ala Leu Tyr Glu Phe Tyr Pro Asp
            180                 185                 190

Arg Tyr Met Leu Glu Gln Glu Phe Asp Thr Leu Trp Ala Lys Gln Ala
        195                 200                 205

Ala Phe Asn Pro Ser Leu Tyr Ile Glu Ala Ala Arg Glu Arg Leu Lys
    210                 215                 220

Glu Ile Val Phe Phe Gln Arg Lys Leu Lys Pro Gln Glu Val Gly Arg
225                 230                 235                 240

Cys Ile Phe Leu Ser Asp Glu Asp Arg Ile Ser Lys Ala Leu Pro Ser
                245                 250                 255

Phe Gln Arg Phe Arg Ile Tyr Gln Glu Leu Ser Asn Leu Ala Trp Ile
            260                 265                 270

Asp His Asp Gly Val Ala His Arg Ile Thr Ala Ser Leu Ala Leu Arg
        275                 280                 285

Asp His Leu Phe Asp Glu Leu Glu His Lys Lys Lys Leu Thr Phe Lys
    290                 295                 300

Ala Met Arg Ala Ile Leu Arg Lys Gln Gly Val Val Asp Tyr Pro Val
305                 310                 315                 320

Gly Phe Asn Leu Glu Ser Asp Asn Arg Asp His Leu Ile Gly Asn Leu
                325                 330                 335

Thr Ser Cys Ile Met Arg Asp Ala Lys Lys Met Ile Gly Ser Ala Trp
            340                 345                 350

Asp Arg Leu Asp Glu Glu Glu Gln Asp Ser Phe Ile Leu Met Leu Gln
        355                 360                 365

Asp Asp Gln Lys Gly Asp Asp Glu Val Arg Ser Ile Leu Thr Gln Gln
    370                 375                 380

Tyr Gly Leu Ser Asp Asp Val Ala Glu Asp Cys Leu Asp Val Arg Leu
385                 390                 395                 400

Pro Asp Gly His Gly Ser Leu Ser Lys Lys Ala Ile Asp Arg Ile Leu
                405                 410                 415
```

```
Pro Val Leu Arg Asp Gln Gly Leu Ile Tyr Tyr Asp Ala Val Lys Glu
            420                 425                 430

Ala Gly Leu Gly Glu Ala Asn Leu Tyr Asp Pro Tyr Ala Ala Leu Ser
        435                 440                 445

Asp Lys Leu Asp Tyr Tyr Gly Lys Ala Leu Ala Gly His Val Met Gly
    450                 455                 460

Ala Ser Gly Lys Phe Glu Asp Ser Asp Glu Lys Arg Tyr Gly Thr Ile
465                 470                 475                 480

Ser Asn Pro Thr Val His Ile Ala Leu Asn Gln Val Arg Ala Val Val
                485                 490                 495

Asn Glu Leu Ile Arg Leu His Gly Lys Pro Asp Glu Val Val Ile Glu
            500                 505                 510

Ile Gly Arg Asp Leu Pro Met Gly Ala Asp Gly Lys Arg Glu Leu Glu
        515                 520                 525

Arg Phe Gln Lys Glu Gly Arg Ala Lys Asn Glu Arg Ala Arg Asp Glu
    530                 535                 540

Leu Lys Lys Leu Gly His Ile Asp Ser Arg Glu Ser Arg Gln Lys Phe
545                 550                 555                 560

Gln Leu Trp Glu Gln Leu Ala Lys Glu Pro Val Asp Arg Cys Cys Pro
                565                 570                 575

Phe Thr Gly Lys Met Met Ser Ile Ser Asp Leu Phe Ser Asp Lys Val
            580                 585                 590

Glu Ile Glu His Leu Leu Pro Phe Ser Leu Thr Leu Asp Asp Ser Met
        595                 600                 605

Ala Asn Lys Thr Val Cys Phe Arg Gln Ala Asn Arg Asp Lys Gly Asn
    610                 615                 620

Arg Ala Pro Phe Asp Ala Phe Gly Asn Ser Pro Ala Gly Tyr Asp Trp
625                 630                 635                 640

Gln Glu Ile Leu Gly Arg Ser Gln Asn Leu Pro Tyr Ala Lys Arg Trp
                645                 650                 655

Arg Phe Leu Pro Asp Ala Met Lys Arg Phe Glu Ala Asp Gly Gly Phe
            660                 665                 670

Leu Glu Arg Gln Leu Asn Asp Thr Arg Tyr Ile Ser Arg Tyr Thr Thr
        675                 680                 685
```

```
Glu Tyr Ile Ser Thr Ile Ile Pro Lys Asn Lys Ile Trp Val Val Thr
    690                 695                 700

Gly Arg Leu Thr Ser Leu Leu Arg Gly Phe Trp Gly Leu Asn Ser Ile
705                 710                 715                 720

Leu Arg Gly His Asn Thr Asp Asp Gly Thr Pro Ala Lys Lys Ser Arg
                725                 730                 735

Asp Asp His Arg His His Ala Ile Asp Ala Ile Val Val Gly Met Thr
            740                 745                 750

Ser Arg Gly Leu Leu Gln Lys Val Ser Lys Ala Ala Arg Arg Ser Glu
        755                 760                 765

Asp Leu Asp Leu Thr Arg Leu Phe Glu Gly Arg Ile Asp Pro Trp Asp
    770                 775                 780

Gly Phe Arg Asp Glu Val Lys Lys His Ile Asp Ala Ile Ile Val Ser
785                 790                 795                 800

His Arg Pro Arg Lys Lys Ser Gln Gly Ala Leu His Asn Asp Thr Ala
                805                 810                 815

Tyr Gly Ile Val Glu His Ala Glu Asn Gly Ala Ser Thr Val Val His
            820                 825                 830

Arg Val Pro Ile Thr Ser Leu Gly Lys Gln Ser Asp Ile Glu Lys Val
        835                 840                 845

Arg Asp Pro Leu Ile Lys Ser Ala Leu Leu Asn Glu Thr Ala Gly Leu
    850                 855                 860

Ser Gly Lys Ser Phe Glu Asn Ala Val Gln Lys Trp Cys Ala Asp Asn
865                 870                 875                 880

Ser Ile Lys Ser Leu Arg Ile Val Glu Thr Val Ser Ile Ile Pro Ile
                885                 890                 895

Thr Asp Lys Glu Gly Val Ala Tyr Lys Gly Tyr Lys Gly Asp Gly Asn
            900                 905                 910

Ala Tyr Met Asp Ile Tyr Gln Asp Pro Thr Ser Ser Lys Trp Lys Gly
        915                 920                 925

Glu Ile Val Ser Arg Phe Asp Ala Asn Gln Lys Gly Phe Ile Pro Ser
    930                 935                 940

Trp Gln Ser Gln Phe Pro Thr Ala Arg Leu Ile Met Arg Leu Arg Ile
945                 950                 955                 960
```

```
Asn Asp Leu Leu Lys Leu Gln Asp Gly Glu Ile Glu Glu Ile Tyr Arg
                965                 970                 975

Val Gln Arg Leu Ser Gly Ser Lys Ile Leu Met Ala Pro His Thr Glu
            980                 985                 990

Ala Asn Val Asp Ala Arg Asp Arg  Asp Lys Asn Asp Thr  Phe Lys Leu
        995                 1000                1005

Thr Ser  Lys Ser Pro Gly Lys  Leu Gln Ser Ala Ser  Ala Arg Lys
    1010                1015                1020

Val His  Ile Ser Pro Thr Gly  Leu Ile Arg Glu Gly
    1025                1030                1035
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<211> 1153
<212> PRT
<213> Barnesiella intestinihominis

<400> 381

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Met Lys Asn Ile Leu Gly Leu Asp Leu Gly Leu Ser Ser Ile Gly Trp
1               5                   10                  15

Ser Val Ile Arg Glu Asn Ser Glu Glu Gln Glu Leu Val Ala Met Gly
            20                  25                  30

Ser Arg Val Val Ser Leu Thr Ala Ala Glu Leu Ser Ser Phe Thr Gln
        35                  40                  45

Gly Asn Gly Val Ser Ile Asn Ser Gln Arg Thr Gln Lys Arg Thr Gln
    50                  55                  60

Arg Lys Gly Tyr Asp Arg Tyr Gln Leu Arg Arg Thr Leu Leu Arg Asn
65                  70                  75                  80

Lys Leu Asp Thr Leu Gly Met Leu Pro Asp Asp Ser Leu Ser Tyr Leu
                85                  90                  95

Pro Lys Leu Gln Leu Trp Gly Leu Arg Ala Lys Ala Val Thr Gln Arg
            100                 105                 110

Ile Glu Leu Asn Glu Leu Gly Arg Val Leu Leu His Leu Asn Gln Lys
        115                 120                 125

Arg Gly Tyr Lys Ser Ile Lys Ser Asp Phe Ser Gly Asp Lys Lys Ile
    130                 135                 140

Thr Asp Tyr Val Lys Thr Val Lys Thr Arg Tyr Asp Glu Leu Lys Glu
145                 150                 155                 160
```

```
Met Arg Leu Thr Ile Gly Glu Leu Phe Phe Arg Arg Leu Thr Glu Asn
                165                 170                 175

Ala Phe Phe Arg Cys Lys Glu Gln Val Tyr Pro Arg Gln Ala Tyr Val
            180                 185                 190

Glu Glu Phe Asp Cys Ile Met Asn Cys Gln Arg Lys Phe Tyr Pro Asp
        195                 200                 205

Ile Leu Thr Asp Glu Thr Ile Arg Cys Ile Arg Asp Glu Ile Ile Tyr
    210                 215                 220

Tyr Gln Arg Pro Leu Lys Ser Cys Lys Tyr Leu Val Ser Arg Cys Glu
225                 230                 235                 240

Phe Glu Lys Arg Phe Tyr Leu Asn Ala Ala Gly Lys Lys Thr Glu Ala
                245                 250                 255

Gly Pro Lys Val Ser Pro Arg Thr Ser Pro Leu Phe Gln Val Cys Arg
            260                 265                 270

Leu Trp Glu Ser Ile Asn Asn Ile Val Val Lys Asp Arg Arg Asn Glu
        275                 280                 285

Ile Val Phe Ile Ser Ala Glu Gln Arg Ala Ala Leu Phe Asp Phe Leu
    290                 295                 300

Asn Thr His Glu Lys Leu Lys Gly Ser Asp Leu Leu Lys Leu Leu Gly
305                 310                 315                 320

Leu Ser Lys Thr Tyr Gly Tyr Arg Leu Gly Glu Gln Phe Lys Thr Gly
                325                 330                 335

Ile Gln Gly Asn Lys Thr Arg Val Glu Ile Glu Arg Ala Leu Gly Asn
            340                 345                 350

Tyr Pro Asp Lys Lys Arg Leu Leu Gln Phe Asn Leu Gln Glu Glu Ser
        355                 360                 365

Ser Ser Met Val Asn Thr Glu Thr Gly Glu Ile Ile Pro Met Ile Ser
    370                 375                 380

Leu Ser Phe Glu Gln Glu Pro Leu Tyr Arg Leu Trp His Val Leu Tyr
385                 390                 395                 400

Ser Ile Asp Asp Arg Glu Gln Leu Gln Ser Val Leu Arg Gln Lys Phe
                405                 410                 415

Gly Ile Asp Asp Asp Glu Val Leu Glu Arg Leu Ser Ala Ile Asp Leu
            420                 425                 430
```

```
Val Lys Ala Gly Phe Gly Asn Lys Ser Ser Lys Ala Ile Arg Arg Ile
        435                 440                 445

Leu Pro Phe Leu Gln Leu Gly Met Asn Tyr Ala Glu Ala Cys Glu Ala
    450                 455                 460

Ala Gly Tyr Asn His Ser Asn Asn Tyr Thr Lys Ala Glu Asn Glu Ala
465                 470                 475                 480

Arg Ala Leu Leu Asp Arg Leu Pro Ala Ile Lys Lys Asn Glu Leu Arg
                485                 490                 495

Gln Pro Val Val Glu Lys Ile Leu Asn Gln Met Val Asn Val Val Asn
            500                 505                 510

Ala Leu Met Glu Lys Tyr Gly Arg Phe Asp Glu Ile Arg Val Glu Leu
        515                 520                 525

Ala Arg Glu Leu Lys Gln Ser Lys Glu Glu Arg Ser Asn Thr Tyr Lys
    530                 535                 540

Ser Ile Asn Lys Asn Gln Arg Glu Asn Glu Gln Ile Ala Lys Arg Ile
545                 550                 555                 560

Val Glu Tyr Gly Val Pro Thr Arg Ser Arg Ile Gln Lys Tyr Lys Met
                565                 570                 575

Trp Glu Glu Ser Lys His Cys Cys Ile Tyr Cys Gly Gln Pro Val Asp
            580                 585                 590

Val Gly Asp Phe Leu Arg Gly Phe Asp Val Glu Val Glu His Ile Ile
        595                 600                 605

Pro Lys Ser Leu Tyr Phe Asp Asp Ser Phe Ala Asn Lys Val Cys Ser
    610                 615                 620

Cys Arg Ser Cys Asn Lys Glu Lys Asn Asn Arg Thr Ala Tyr Asp Tyr
625                 630                 635                 640

Met Lys Ser Lys Gly Glu Lys Ala Leu Ser Asp Tyr Val Glu Arg Val
                645                 650                 655

Asn Thr Met Tyr Thr Asn Asn Gln Ile Ser Lys Thr Lys Trp Gln Asn
            660                 665                 670

Leu Leu Thr Pro Val Asp Lys Ile Ser Ile Asp Phe Ile Asp Arg Gln
        675                 680                 685

Leu Arg Glu Ser Gln Tyr Ile Ala Arg Lys Ala Lys Glu Ile Leu Thr
    690                 695                 700
```

```
Ser Ile Cys Tyr Asn Val Thr Ala Thr Ser Gly Ser Val Thr Ser Phe
705                 710                 715                 720

Leu Arg His Val Trp Gly Trp Asp Thr Val Leu His Asp Leu Asn Phe
                725                 730                 735

Asp Arg Tyr Lys Lys Val Gly Leu Thr Glu Val Ile Glu Val Asn His
            740                 745                 750

Arg Gly Ser Val Ile Arg Arg Glu Gln Ile Lys Asp Trp Ser Lys Arg
        755                 760                 765

Phe Asp His Arg His His Ala Ile Asp Ala Leu Thr Ile Ala Cys Thr
    770                 775                 780

Lys Gln Ala Tyr Ile Gln Arg Leu Asn Asn Leu Arg Ala Glu Glu Gly
785                 790                 795                 800

Pro Asp Phe Asn Lys Met Ser Leu Glu Arg Tyr Ile Gln Ser Gln Pro
                805                 810                 815

His Phe Ser Val Ala Gln Val Arg Glu Ala Val Asp Arg Ile Leu Val
            820                 825                 830

Ser Phe Arg Ala Gly Lys Arg Ala Val Thr Pro Gly Lys Arg Tyr Ile
        835                 840                 845

Arg Lys Asn Arg Lys Arg Ile Ser Val Gln Ser Val Leu Ile Pro Arg
    850                 855                 860

Gly Ala Leu Ser Glu Glu Ser Val Tyr Gly Val Ile His Val Trp Glu
865                 870                 875                 880

Lys Asp Glu Gln Gly His Val Ile Gln Lys Gln Arg Ala Val Met Lys
                885                 890                 895

Tyr Pro Ile Thr Ser Ile Asn Arg Glu Met Leu Asp Lys Glu Lys Val
            900                 905                 910

Val Asp Lys Arg Ile His Arg Ile Leu Ser Gly Arg Leu Ala Gln Tyr
        915                 920                 925

Asn Asp Asn Pro Lys Glu Ala Phe Ala Lys Pro Val Tyr Ile Asp Lys
    930                 935                 940

Glu Cys Arg Ile Pro Ile Arg Thr Val Arg Cys Phe Ala Lys Pro Ala
945                 950                 955                 960

Ile Asn Thr Leu Val Pro Leu Lys Lys Asp Asp Lys Gly Asn Pro Val
                965                 970                 975
```

Ala Trp Val Asn Pro Gly Asn Asn His His Val Ala Ile Tyr Arg Asp
980 985 990

Glu Asp Gly Lys Tyr Lys Glu Arg Thr Val Thr Phe Trp Glu Ala Val
995 1000 1005

Asp Arg Cys Arg Val Gly Ile Pro Ala Ile Val Thr Gln Pro Asp
1010 1015 1020

Thr Ile Trp Asp Asn Ile Leu Gln Arg Asn Asp Ile Ser Glu Asn
1025 1030 1035

Val Leu Glu Ser Leu Pro Asp Val Lys Trp Gln Phe Val Leu Ser
1040 1045 1050

Leu Gln Gln Asn Glu Met Phe Ile Leu Gly Met Asn Glu Glu Asp
1055 1060 1065

Tyr Arg Tyr Ala Met Asp Gln Gln Asp Tyr Ala Leu Leu Asn Lys
1070 1075 1080

Tyr Leu Tyr Arg Val Gln Lys Leu Ser Lys Ser Asp Tyr Ser Phe
1085 1090 1095

Arg Tyr His Thr Glu Thr Ser Val Glu Asp Lys Tyr Asp Gly Lys
1100 1105 1110

Pro Asn Leu Lys Leu Ser Met Gln Met Gly Lys Leu Lys Arg Val
1115 1120 1125

Ser Ile Lys Ser Leu Leu Gly Leu Asn Pro His Lys Val His Ile
1130 1135 1140

Ser Val Leu Gly Glu Ile Lys Glu Ile Ser
1145 1150

<210> 382
<211> 1062
<212> PRT
<213> Ralstonia syzygii

<400> 382

Met Ala Glu Lys Gln His Arg Trp Gly Leu Asp Ile Gly Thr Asn Ser
1 5 10 15

Ile Gly Trp Ala Val Ile Ala Leu Ile Glu Gly Arg Pro Ala Gly Leu
20 25 30

Val Ala Thr Gly Ser Arg Ile Phe Ser Asp Gly Arg Asn Pro Lys Asp
35 40 45

Gly Ser Ser Leu Ala Val Glu Arg Arg Gly Pro Arg Gln Met Arg Arg

50 55 60

Arg Arg Asp Arg Tyr Leu Arg Arg Arg Asp Arg Phe Met Gln Ala Leu
65 70 75 80

Ile Asn Val Gly Leu Met Pro Gly Asp Ala Ala Ala Arg Lys Ala Leu
85 90 95

Val Thr Glu Asn Pro Tyr Val Leu Arg Gln Arg Gly Leu Asp Gln Ala
100 105 110

Leu Thr Leu Pro Glu Phe Gly Arg Ala Leu Phe His Leu Asn Gln Arg
115 120 125

Arg Gly Phe Gln Ser Asn Arg Lys Thr Asp Arg Ala Thr Ala Lys Glu
130 135 140

Ser Gly Lys Val Lys Asn Ala Ile Ala Ala Phe Arg Ala Gly Met Gly
145 150 155 160

Asn Ala Arg Thr Val Gly Glu Ala Leu Ala Arg Arg Leu Glu Asp Gly
165 170 175

Arg Pro Val Arg Ala Arg Met Val Gly Gln Gly Lys Asp Glu His Tyr
180 185 190

Glu Leu Tyr Ile Ala Arg Glu Trp Ile Ala Gln Glu Phe Asp Ala Leu
195 200 205

Trp Ala Ser Gln Gln Arg Phe His Ala Glu Val Leu Ala Asp Ala Ala
210 215 220

Arg Asp Arg Leu Arg Ala Ile Leu Leu Phe Gln Arg Lys Leu Leu Pro
225 230 235 240

Val Pro Val Gly Lys Cys Phe Leu Glu Pro Asn Gln Pro Arg Val Ala
245 250 255

Ala Ala Leu Pro Ser Ala Gln Arg Phe Arg Leu Met Gln Glu Leu Asn
260 265 270

His Leu Arg Val Met Thr Leu Ala Asp Lys Arg Glu Arg Pro Leu Ser
275 280 285

Phe Gln Glu Arg Asn Asp Leu Leu Ala Gln Leu Val Ala Arg Pro Lys
290 295 300

Cys Gly Phe Asp Met Leu Arg Lys Ile Val Phe Gly Ala Asn Lys Glu
305 310 315 320

Ala Tyr Arg Phe Thr Ile Glu Ser Glu Arg Arg Lys Glu Leu Lys Gly

325 330 335

Cys Asp Thr Ala Ala Lys Leu Ala Lys Val Asn Ala Leu Gly Thr Arg
340 345 350

Trp Gln Ala Leu Ser Leu Asp Glu Gln Asp Arg Leu Val Cys Leu Leu
355 360 365

Leu Asp Gly Glu Asn Asp Ala Val Leu Ala Asp Ala Leu Arg Glu His
370 375 380

Tyr Gly Leu Thr Asp Ala Gln Ile Asp Thr Leu Leu Gly Leu Ser Phe
385 390 395 400

Glu Asp Gly His Met Arg Leu Gly Arg Ser Ala Leu Leu Arg Val Leu
405 410 415

Asp Ala Leu Glu Ser Gly Arg Asp Glu Gln Gly Leu Pro Leu Ser Tyr
420 425 430

Asp Lys Ala Val Val Ala Ala Gly Tyr Pro Ala His Thr Ala Asp Leu
435 440 445

Glu Asn Gly Glu Arg Asp Ala Leu Pro Tyr Tyr Gly Glu Leu Leu Trp
450 455 460

Arg Tyr Thr Gln Asp Ala Pro Thr Ala Lys Asn Asp Ala Glu Arg Lys
465 470 475 480

Phe Gly Lys Ile Ala Asn Pro Thr Val His Ile Gly Leu Asn Gln Leu
485 490 495

Arg Lys Leu Val Asn Ala Leu Ile Gln Arg Tyr Gly Lys Pro Ala Gln
500 505 510

Ile Val Val Glu Leu Ala Arg Asn Leu Lys Ala Gly Leu Glu Glu Lys
515 520 525

Glu Arg Ile Lys Lys Gln Gln Thr Ala Asn Leu Glu Arg Asn Glu Arg
530 535 540

Ile Arg Gln Lys Leu Gln Asp Ala Gly Val Pro Asp Asn Arg Glu Asn
545 550 555 560

Arg Leu Arg Met Arg Leu Phe Glu Glu Leu Gly Gln Gly Asn Gly Leu
565 570 575

Gly Thr Pro Cys Ile Tyr Ser Gly Arg Gln Ile Ser Leu Gln Arg Leu
580 585 590

Phe Ser Asn Asp Val Gln Val Asp His Ile Leu Pro Phe Ser Lys Thr

595 600 605

Leu Asp Asp Ser Phe Ala Asn Lys Val Leu Ala Gln His Asp Ala Asn
610 615 620

Arg Tyr Lys Gly Asn Arg Gly Pro Phe Glu Ala Phe Gly Ala Asn Arg
625 630 635 640

Asp Gly Tyr Ala Trp Asp Asp Ile Arg Ala Arg Ala Ala Val Leu Pro
645 650 655

Arg Asn Lys Arg Asn Arg Phe Ala Glu Thr Ala Met Gln Asp Trp Leu
660 665 670

His Asn Glu Thr Asp Phe Leu Ala Arg Gln Leu Thr Asp Thr Ala Tyr
675 680 685

Leu Ser Arg Val Ala Arg Gln Tyr Leu Thr Ala Ile Cys Ser Lys Asp
690 695 700

Asp Val Tyr Val Ser Pro Gly Arg Leu Thr Ala Met Leu Arg Ala Lys
705 710 715 720

Trp Gly Leu Asn Arg Val Leu Asp Gly Val Met Glu Glu Gln Gly Arg
725 730 735

Pro Ala Val Lys Asn Arg Asp Asp His Arg His His Ala Ile Asp Ala
740 745 750

Val Val Ile Gly Ala Thr Asp Arg Ala Met Leu Gln Gln Val Ala Thr
755 760 765

Leu Ala Ala Arg Ala Arg Glu Gln Asp Ala Glu Arg Leu Ile Gly Asp
770 775 780

Met Pro Thr Pro Trp Pro Asn Phe Leu Glu Asp Val Arg Ala Ala Val
785 790 795 800

Ala Arg Cys Val Val Ser His Lys Pro Asp His Gly Pro Glu Gly Gly
805 810 815

Leu His Asn Asp Thr Ala Tyr Gly Ile Val Ala Gly Pro Phe Glu Asp
820 825 830

Gly Arg Tyr Arg Val Arg His Arg Val Ser Leu Phe Asp Leu Lys Pro
835 840 845

Gly Asp Leu Ser Asn Val Arg Cys Asp Ala Pro Leu Gln Ala Glu Leu
850 855 860

Glu Pro Ile Phe Glu Gln Asp Asp Ala Arg Ala Arg Glu Val Ala Leu

865 870 875 880

Thr Ala Leu Ala Glu Arg Tyr Arg Gln Arg Lys Val Trp Leu Glu Glu
885 890 895

Leu Met Ser Val Leu Pro Ile Arg Pro Arg Gly Glu Asp Gly Lys Thr
900 905 910

Leu Pro Asp Ser Ala Pro Tyr Lys Ala Tyr Lys Gly Asp Ser Asn Tyr
915 920 925

Cys Tyr Glu Leu Phe Ile Asn Glu Arg Gly Arg Trp Asp Gly Glu Leu
930 935 940

Ile Ser Thr Phe Arg Ala Asn Gln Ala Ala Tyr Arg Arg Phe Arg Asn
945 950 955 960

Asp Pro Ala Arg Phe Arg Arg Tyr Thr Ala Gly Gly Arg Pro Leu Leu
965 970 975

Met Arg Leu Cys Ile Asn Asp Tyr Ile Ala Val Gly Thr Ala Ala Glu
980 985 990

Arg Thr Ile Phe Arg Val Val Lys Met Ser Glu Asn Lys Ile Thr Leu
995 1000 1005

Ala Glu His Phe Glu Gly Gly Thr Leu Lys Gln Arg Asp Ala Asp
1010 1015 1020

Lys Asp Asp Pro Phe Lys Tyr Leu Thr Lys Ser Pro Gly Ala Leu
1025 1030 1035

Arg Asp Leu Gly Ala Arg Arg Ile Phe Val Asp Leu Ile Gly Arg
1040 1045 1050

Val Leu Asp Pro Gly Ile Lys Gly Asp
1055 1060

<210> 383
<211> 1059
<212> PRT
<213> Wolinella succinogenes

<400> 383

Met Ile Glu Arg Ile Leu Gly Val Asp Leu Gly Ile Ser Ser Leu Gly
1 5 10 15

Trp Ala Ile Val Glu Tyr Asp Lys Asp Asp Glu Ala Ala Asn Arg Ile
20 25 30

Ile Asp Cys Gly Val Arg Leu Phe Thr Ala Ala Glu Thr Pro Lys Lys
35 40 45

```
Lys Glu Ser Pro Asn Lys Ala Arg Arg Glu Ala Arg Gly Ile Arg Arg
    50                  55                  60

Val Leu Asn Arg Arg Arg Val Arg Met Asn Met Ile Lys Lys Leu Phe
65                  70                  75                  80

Leu Arg Ala Gly Leu Ile Gln Asp Val Asp Leu Asp Gly Glu Gly Gly
                85                  90                  95

Met Phe Tyr Ser Lys Ala Asn Arg Ala Asp Val Trp Glu Leu Arg His
            100                 105                 110

Asp Gly Leu Tyr Arg Leu Leu Lys Gly Asp Glu Leu Ala Arg Val Leu
        115                 120                 125

Ile His Ile Ala Lys His Arg Gly Tyr Lys Phe Ile Gly Asp Asp Glu
    130                 135                 140

Ala Asp Glu Glu Ser Gly Lys Val Lys Lys Ala Gly Val Val Leu Arg
145                 150                 155                 160

Gln Asn Phe Glu Ala Ala Gly Cys Arg Thr Val Gly Glu Trp Leu Trp
                165                 170                 175

Arg Glu Arg Gly Ala Asn Gly Lys Lys Arg Asn Lys His Gly Asp Tyr
            180                 185                 190

Glu Ile Ser Ile His Arg Asp Leu Leu Val Glu Glu Val Glu Ala Ile
        195                 200                 205

Phe Val Ala Gln Gln Glu Met Arg Ser Thr Ile Ala Thr Asp Ala Leu
    210                 215                 220

Lys Ala Ala Tyr Arg Glu Ile Ala Phe Phe Val Arg Pro Met Gln Arg
225                 230                 235                 240

Ile Glu Lys Met Val Gly His Cys Thr Tyr Phe Pro Glu Glu Arg Arg
                245                 250                 255

Ala Pro Lys Ser Ala Pro Thr Ala Glu Lys Phe Ile Ala Ile Ser Lys
            260                 265                 270

Phe Phe Ser Thr Val Ile Ile Asp Asn Glu Gly Trp Glu Gln Lys Ile
        275                 280                 285

Ile Glu Arg Lys Thr Leu Glu Glu Leu Leu Asp Phe Ala Val Ser Arg
    290                 295                 300

Glu Lys Val Glu Phe Arg His Leu Arg Lys Phe Leu Asp Leu Ser Asp
305                 310                 315                 320
```

```
Asn Glu Ile Phe Lys Gly Leu His Tyr Lys Gly Lys Pro Lys Thr Ala
                325                 330                 335

Lys Lys Arg Glu Ala Thr Leu Phe Asp Pro Asn Glu Pro Thr Glu Leu
            340                 345                 350

Glu Phe Asp Lys Val Glu Ala Glu Lys Lys Ala Trp Ile Ser Leu Arg
        355                 360                 365

Gly Ala Ala Lys Leu Arg Glu Ala Leu Gly Asn Glu Phe Tyr Gly Arg
    370                 375                 380

Phe Val Ala Leu Gly Lys His Ala Asp Glu Ala Thr Lys Ile Leu Thr
385                 390                 395                 400

Tyr Tyr Lys Asp Glu Gly Gln Lys Arg Arg Glu Leu Thr Lys Leu Pro
                405                 410                 415

Leu Glu Ala Glu Met Val Glu Arg Leu Val Lys Ile Gly Phe Ser Asp
            420                 425                 430

Phe Leu Lys Leu Ser Leu Lys Ala Ile Arg Asp Ile Leu Pro Ala Met
        435                 440                 445

Glu Ser Gly Ala Arg Tyr Asp Glu Ala Val Leu Met Leu Gly Val Pro
    450                 455                 460

His Lys Glu Lys Ser Ala Ile Leu Pro Pro Leu Asn Lys Thr Asp Ile
465                 470                 475                 480

Asp Ile Leu Asn Pro Thr Val Ile Arg Ala Phe Ala Gln Phe Arg Lys
                485                 490                 495

Val Ala Asn Ala Leu Val Arg Lys Tyr Gly Ala Phe Asp Arg Val His
            500                 505                 510

Phe Glu Leu Ala Arg Glu Ile Asn Thr Lys Gly Glu Ile Glu Asp Ile
        515                 520                 525

Lys Glu Ser Gln Arg Lys Asn Glu Lys Glu Arg Lys Glu Ala Ala Asp
    530                 535                 540

Trp Ile Ala Glu Thr Ser Phe Gln Val Pro Leu Thr Arg Lys Asn Ile
545                 550                 555                 560

Leu Lys Lys Arg Leu Tyr Ile Gln Gln Asp Gly Arg Cys Ala Tyr Thr
                565                 570                 575

Gly Asp Val Ile Glu Leu Glu Arg Leu Phe Asp Glu Gly Tyr Cys Glu
            580                 585                 590
```

Ile Asp His Ile Leu Pro Arg Ser Arg Ser Ala Asp Asp Ser Phe Ala
595 600 605

Asn Lys Val Leu Cys Leu Ala Arg Ala Asn Gln Gln Lys Thr Asp Arg
610 615 620

Thr Pro Tyr Glu Trp Phe Gly His Asp Ala Ala Arg Trp Asn Ala Phe
625 630 635 640

Glu Thr Arg Thr Ser Ala Pro Ser Asn Arg Val Arg Thr Gly Lys Gly
645 650 655

Lys Ile Asp Arg Leu Leu Lys Lys Asn Phe Asp Glu Asn Ser Glu Met
660 665 670

Ala Phe Lys Asp Arg Asn Leu Asn Asp Thr Arg Tyr Met Ala Arg Ala
675 680 685

Ile Lys Thr Tyr Cys Glu Gln Tyr Trp Val Phe Lys Asn Ser His Thr
690 695 700

Lys Ala Pro Val Gln Val Arg Ser Gly Lys Leu Thr Ser Val Leu Arg
705 710 715 720

Tyr Gln Trp Gly Leu Glu Ser Lys Asp Arg Glu Ser His Thr His His
725 730 735

Ala Val Asp Ala Ile Ile Ile Ala Phe Ser Thr Gln Gly Met Val Gln
740 745 750

Lys Leu Ser Glu Tyr Tyr Arg Phe Lys Glu Thr His Arg Glu Lys Glu
755 760 765

Arg Pro Lys Leu Ala Val Pro Leu Ala Asn Phe Arg Asp Ala Val Glu
770 775 780

Glu Ala Thr Arg Ile Glu Asn Thr Glu Thr Val Lys Glu Gly Val Glu
785 790 795 800

Val Lys Arg Leu Leu Ile Ser Arg Pro Pro Arg Ala Arg Val Thr Gly
805 810 815

Gln Ala His Glu Gln Thr Ala Lys Pro Tyr Pro Arg Ile Lys Gln Val
820 825 830

Lys Asn Lys Lys Lys Trp Arg Leu Ala Pro Ile Asp Glu Glu Lys Phe
835 840 845

Glu Ser Phe Lys Ala Asp Arg Val Ala Ser Ala Asn Gln Lys Asn Phe
850 855 860

```
Tyr Glu Thr Ser Thr Ile Pro Arg Val Asp Val Tyr His Lys Lys Gly
865                 870                 875                 880

Lys Phe His Leu Val Pro Ile Tyr Leu His Glu Met Val Leu Asn Glu
                885                 890                 895

Leu Pro Asn Leu Ser Leu Gly Thr Asn Pro Glu Ala Met Asp Glu Asn
            900                 905                 910

Phe Phe Lys Phe Ser Ile Phe Lys Asp Asp Leu Ile Ser Ile Gln Thr
        915                 920                 925

Gln Gly Thr Pro Lys Lys Pro Ala Lys Ile Ile Met Gly Tyr Phe Lys
    930                 935                 940

Asn Met His Gly Ala Asn Met Val Leu Ser Ser Ile Asn Asn Ser Pro
945                 950                 955                 960

Cys Glu Gly Phe Thr Cys Thr Pro Val Ser Met Asp Lys Lys His Lys
                965                 970                 975

Asp Lys Cys Lys Leu Cys Pro Glu Glu Asn Arg Ile Ala Gly Arg Cys
            980                 985                 990

Leu Gln Gly Phe Leu Asp Tyr Trp  Ser Gln Glu Gly Leu  Arg Pro Pro
        995                 1000                1005

Arg Lys  Glu Phe Glu Cys Asp  Gln Gly Val Lys Phe  Ala Leu Asp
    1010                1015                1020

Val Lys  Lys Tyr Gln Ile Asp  Pro Leu Gly Tyr Tyr  Tyr Glu Val
    1025                1030                1035

Lys Gln  Glu Lys Arg Leu Gly  Thr Ile Pro Gln Met  Arg Ser Ala
    1040                1045                1050

Lys Lys  Leu Val Lys Lys
    1055
```

<210> 384
<211> 1269
<212> PRT
<213> Mycoplasma gallisepticum

<400> 384

```
Met Asn Asn Ser Ile Lys Ser Lys Pro Glu Val Thr Ile Gly Leu Asp
1               5                   10                  15

Leu Gly Val Gly Ser Val Gly Trp Ala Ile Val Asp Asn Glu Thr Asn
            20                  25                  30
```

```
Ile Ile His His Leu Gly Ser Arg Leu Phe Ser Gln Ala Lys Thr Ala
        35                  40                  45

Glu Asp Arg Arg Ser Phe Arg Gly Val Arg Arg Leu Ile Arg Arg Arg
    50                  55                  60

Lys Tyr Lys Leu Lys Arg Phe Val Asn Leu Ile Trp Lys Tyr Asn Ser
65                  70                  75                  80

Tyr Phe Gly Phe Lys Asn Lys Glu Asp Ile Leu Asn Asn Tyr Gln Glu
                85                  90                  95

Gln Gln Lys Leu His Asn Thr Val Leu Asn Leu Lys Ser Glu Ala Leu
            100                 105                 110

Asn Ala Lys Ile Asp Pro Lys Ala Leu Ser Trp Ile Leu His Asp Tyr
        115                 120                 125

Leu Lys Asn Arg Gly His Phe Tyr Glu Asp Asn Arg Asp Phe Asn Val
    130                 135                 140

Tyr Pro Thr Lys Glu Leu Ala Lys Tyr Phe Asp Lys Tyr Gly Tyr Tyr
145                 150                 155                 160

Lys Gly Ile Ile Asp Ser Lys Glu Asp Asn Asp Asn Lys Leu Glu Glu
                165                 170                 175

Glu Leu Thr Lys Tyr Lys Phe Ser Asn Lys His Trp Leu Glu Glu Val
            180                 185                 190

Lys Lys Val Leu Ser Asn Gln Thr Gly Leu Pro Glu Lys Phe Lys Glu
        195                 200                 205

Glu Tyr Glu Ser Leu Phe Ser Tyr Val Arg Asn Tyr Ser Glu Gly Pro
    210                 215                 220

Gly Ser Ile Asn Ser Val Ser Pro Tyr Gly Ile Tyr His Leu Asp Glu
225                 230                 235                 240

Lys Glu Gly Lys Val Val Gln Lys Tyr Asn Asn Ile Trp Asp Lys Thr
                245                 250                 255

Ile Gly Lys Cys Asn Ile Phe Pro Asp Glu Tyr Arg Ala Pro Lys Asn
            260                 265                 270

Ser Pro Ile Ala Met Ile Phe Asn Glu Ile Asn Glu Leu Ser Thr Ile
        275                 280                 285

Arg Ser Tyr Ser Ile Tyr Leu Thr Gly Trp Phe Ile Asn Gln Glu Phe
    290                 295                 300
```

```
Lys Lys Ala Tyr Leu Asn Lys Leu Leu Asp Leu Leu Ile Lys Thr Asn
305                 310                 315                 320

Gly Glu Lys Pro Ile Asp Ala Arg Gln Phe Lys Lys Leu Arg Glu Glu
                325                 330                 335

Thr Ile Ala Glu Ser Ile Gly Lys Glu Thr Leu Lys Asp Val Glu Asn
            340                 345                 350

Glu Glu Lys Leu Glu Lys Glu Asp His Lys Trp Lys Leu Lys Gly Leu
        355                 360                 365

Lys Leu Asn Thr Asn Gly Lys Ile Gln Tyr Asn Asp Leu Ser Ser Leu
    370                 375                 380

Ala Lys Phe Val His Lys Leu Lys Gln His Leu Lys Leu Asp Phe Leu
385                 390                 395                 400

Leu Glu Asp Gln Tyr Ala Thr Leu Asp Lys Ile Asn Phe Leu Gln Ser
                405                 410                 415

Leu Phe Val Tyr Leu Gly Lys His Leu Arg Tyr Ser Asn Arg Val Asp
            420                 425                 430

Ser Ala Asn Leu Lys Glu Phe Ser Asp Ser Asn Lys Leu Phe Glu Arg
        435                 440                 445

Ile Leu Gln Lys Gln Lys Asp Gly Leu Phe Lys Leu Phe Glu Gln Thr
    450                 455                 460

Asp Lys Asp Asp Glu Lys Ile Leu Ala Gln Thr His Ser Leu Ser Thr
465                 470                 475                 480

Lys Ala Met Leu Leu Ala Ile Thr Arg Met Thr Asn Leu Asp Asn Asp
                485                 490                 495

Glu Asp Asn Gln Lys Asn Asn Asp Lys Gly Trp Asn Phe Glu Ala Ile
            500                 505                 510

Lys Asn Phe Asp Gln Lys Phe Ile Asp Ile Thr Lys Lys Asn Asn Asn
        515                 520                 525

Leu Ser Leu Lys Gln Asn Lys Arg Tyr Leu Asp Asp Arg Phe Ile Asn
    530                 535                 540

Asp Ala Ile Leu Ser Pro Gly Val Lys Arg Ile Leu Arg Glu Ala Thr
545                 550                 555                 560

Lys Val Phe Asn Ala Ile Leu Lys Gln Phe Ser Glu Glu Tyr Asp Val
                565                 570                 575
```

```
Thr Lys Val Val Ile Glu Leu Ala Arg Glu Leu Ser Glu Glu Lys Glu
            580                 585                 590

Leu Glu Asn Thr Lys Asn Tyr Lys Lys Leu Ile Lys Lys Asn Gly Asp
        595                 600                 605

Lys Ile Ser Glu Gly Leu Lys Ala Leu Gly Ile Ser Glu Asp Glu Ile
    610                 615                 620

Lys Asp Ile Leu Lys Ser Pro Thr Lys Ser Tyr Lys Phe Leu Leu Trp
625                 630                 635                 640

Leu Gln Gln Asp His Ile Asp Pro Tyr Ser Leu Lys Glu Ile Ala Phe
                645                 650                 655

Asp Asp Ile Phe Thr Lys Thr Glu Lys Phe Glu Ile Asp His Ile Ile
            660                 665                 670

Pro Tyr Ser Ile Ser Phe Asp Asp Ser Ser Ser Asn Lys Leu Leu Val
        675                 680                 685

Leu Ala Glu Ser Asn Gln Ala Lys Ser Asn Gln Thr Pro Tyr Glu Phe
    690                 695                 700

Ile Ser Ser Gly Asn Ala Gly Ile Lys Trp Glu Asp Tyr Glu Ala Tyr
705                 710                 715                 720

Cys Arg Lys Phe Lys Asp Gly Asp Ser Ser Leu Leu Asp Ser Thr Gln
                725                 730                 735

Arg Ser Lys Lys Phe Ala Lys Met Met Lys Thr Asp Thr Ser Ser Lys
            740                 745                 750

Tyr Asp Ile Gly Phe Leu Ala Arg Asn Leu Asn Asp Thr Arg Tyr Ala
        755                 760                 765

Thr Ile Val Phe Arg Asp Ala Leu Glu Asp Tyr Ala Asn Asn His Leu
    770                 775                 780

Val Glu Asp Lys Pro Met Phe Lys Val Val Cys Ile Asn Gly Ser Val
785                 790                 795                 800

Thr Ser Phe Leu Arg Lys Asn Phe Asp Asp Ser Ser Tyr Ala Lys Lys
                805                 810                 815

Asp Arg Asp Lys Asn Ile His His Ala Val Asp Ala Ser Ile Ile Ser
            820                 825                 830

Ile Phe Ser Asn Glu Thr Lys Thr Leu Phe Asn Gln Leu Thr Gln Phe
        835                 840                 845
```

```
Ala Asp Tyr Lys Leu Phe Lys Asn Thr Asp Gly Ser Trp Lys Lys Ile
    850                 855                 860

Asp Pro Lys Thr Gly Val Val Thr Glu Val Thr Asp Glu Asn Trp Lys
865                 870                 875                 880

Gln Ile Arg Val Arg Asn Gln Val Ser Glu Ile Ala Lys Val Ile Glu
                885                 890                 895

Lys Tyr Ile Gln Asp Ser Asn Ile Glu Arg Lys Ala Arg Tyr Ser Arg
            900                 905                 910

Lys Ile Glu Asn Lys Thr Asn Ile Ser Leu Phe Asn Asp Thr Val Tyr
        915                 920                 925

Ser Ala Lys Lys Val Gly Tyr Glu Asp Gln Ile Lys Arg Lys Asn Leu
    930                 935                 940

Lys Thr Leu Asp Ile His Glu Ser Ala Lys Glu Asn Lys Asn Ser Lys
945                 950                 955                 960

Val Lys Arg Gln Phe Val Tyr Arg Lys Leu Val Asn Val Ser Leu Leu
                965                 970                 975

Asn Asn Asp Lys Leu Ala Asp Leu Phe Ala Glu Lys Glu Asp Ile Leu
            980                 985                 990

Met Tyr Arg Ala Asn Pro Trp Val  Ile Asn Leu Ala Glu  Gln Ile Phe
        995                 1000                1005

Asn Glu  Tyr Thr Glu Asn Lys  Lys Ile Lys Ser Gln  Asn Val Phe
    1010                1015                1020

Glu Lys  Tyr Met Leu Asp Leu  Thr Lys Glu Phe Pro  Glu Lys Phe
    1025                1030                1035

Ser Glu  Phe Leu Val Lys Ser  Met Leu Arg Asn Lys  Thr Ala Ile
    1040                1045                1050

Ile Tyr  Asp Asp Lys Lys Asn  Ile Val His Arg Ile  Lys Arg Leu
    1055                1060                1065

Lys Met  Leu Ser Ser Glu Leu  Lys Glu Asn Lys Leu  Ser Asn Val
    1070                1075                1080

Ile Ile  Arg Ser Lys Asn Gln  Ser Gly Thr Lys Leu  Ser Tyr Gln
    1085                1090                1095

Asp Thr  Ile Asn Ser Leu Ala  Leu Met Ile Met Arg  Ser Ile Asp
    1100                1105                1110
```

```
Pro Thr  Ala Lys Lys Gln Tyr  Ile Arg Val Pro Leu  Asn Thr Leu
    1115                1120                1125

Asn Leu  His Leu Gly Asp His  Asp Phe Asp Leu His  Asn Met Asp
    1130                1135                1140

Ala Tyr  Leu Lys Lys Pro Lys  Phe Val Lys Tyr Leu  Lys Ala Asn
    1145                1150                1155

Glu Ile  Gly Asp Glu Tyr Lys  Pro Trp Arg Val Leu  Thr Ser Gly
    1160                1165                1170

Thr Leu  Leu Ile His Lys Lys  Asp Lys Lys Leu Met  Tyr Ile Ser
    1175                1180                1185

Ser Phe  Gln Asn Leu Asn Asp  Val Ile Glu Ile Lys  Asn Leu Ile
    1190                1195                1200

Glu Thr  Glu Tyr Lys Glu Asn  Asp Asp Ser Asp Ser  Lys Lys Lys
    1205                1210                1215

Lys Lys  Ala Asn Arg Phe Leu  Met Thr Leu Ser Thr  Ile Leu Asn
    1220                1225                1230

Asp Tyr  Ile Leu Leu Asp Ala  Lys Asp Asn Phe Asp  Ile Leu Gly
    1235                1240                1245

Leu Ser  Lys Asn Arg Ile Asp  Glu Ile Leu Asn Ser  Lys Leu Gly
    1250                1255                1260

Leu Asp  Lys Ile Val Lys
    1265
```

<210> 385
<211> 1138
<212> PRT
<213> Acidothermus cellulolyticus

<400> 385

```
Met Gly Gly Ser Glu Val Gly Thr Val Pro Val Thr Trp Arg Leu Gly
1               5                   10                  15

Val Asp Val Gly Glu Arg Ser Ile Gly Leu Ala Ala Val Ser Tyr Glu
            20                  25                  30

Glu Asp Lys Pro Lys Glu Ile Leu Ala Ala Val Ser Trp Ile His Asp
        35                  40                  45

Gly Gly Val Gly Asp Glu Arg Ser Gly Ala Ser Arg Leu Ala Leu Arg
    50                  55                  60
```

```
Gly Met Ala Arg Arg Ala Arg Arg Leu Arg Arg Phe Arg Arg Ala Arg
65                  70                  75                  80

Leu Arg Asp Leu Asp Met Leu Leu Ser Glu Leu Gly Trp Thr Pro Leu
                85                  90                  95

Pro Asp Lys Asn Val Ser Pro Val Asp Ala Trp Leu Ala Arg Lys Arg
            100                 105                 110

Leu Ala Glu Glu Tyr Val Val Asp Glu Thr Glu Arg Arg Arg Leu Leu
        115                 120                 125

Gly Tyr Ala Val Ser His Met Ala Arg His Arg Gly Trp Arg Asn Pro
    130                 135                 140

Trp Thr Thr Ile Lys Asp Leu Lys Asn Leu Pro Gln Pro Ser Asp Ser
145                 150                 155                 160

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

Glu Pro Gly Thr Val Gly Gln Trp Ala Gly Tyr Leu Leu Gln Arg Ala
            180                 185                 190

Pro Gly Ile Arg Leu Asn Pro Thr Gln Gln Ser Ala Gly Arg Arg Ala
        195                 200                 205

Glu Leu Ser Asn Ala Thr Ala Phe Glu Thr Arg Leu Arg Gln Glu Asp
    210                 215                 220

Val Leu Trp Glu Leu Arg Cys Ile Ala Asp Val Gln Gly Leu Pro Glu
225                 230                 235                 240

Asp Val Val Ser Asn Val Ile Asp Ala Val Phe Cys Gln Lys Arg Pro
                245                 250                 255

Ser Val Pro Ala Glu Arg Ile Gly Arg Asp Pro Leu Asp Pro Ser Gln
            260                 265                 270

Leu Arg Ala Ser Arg Ala Cys Leu Glu Phe Gln Glu Tyr Arg Ile Val
        275                 280                 285

Ala Ala Val Ala Asn Leu Arg Ile Arg Asp Gly Ser Gly Ser Arg Pro
    290                 295                 300

Leu Ser Leu Glu Glu Arg Asn Ala Val Ile Glu Ala Leu Leu Ala Gln
305                 310                 315                 320

Thr Glu Arg Ser Leu Thr Trp Ser Asp Ile Ala Leu Glu Ile Leu Lys
                325                 330                 335
```

```
Leu Pro Asn Glu Ser Asp Leu Thr Ser Val Pro Glu Glu Asp Gly Pro
            340                 345                 350

Ser Ser Leu Ala Tyr Ser Gln Phe Ala Pro Phe Asp Glu Thr Ser Ala
        355                 360                 365

Arg Ile Ala Glu Phe Ile Ala Lys Asn Arg Arg Lys Ile Pro Thr Phe
    370                 375                 380

Ala Gln Trp Trp Gln Glu Gln Asp Arg Thr Ser Arg Ser Asp Leu Val
385                 390                 395                 400

Ala Ala Leu Ala Asp Asn Ser Ile Ala Gly Glu Glu Glu Gln Glu Leu
                405                 410                 415

Leu Val His Leu Pro Asp Ala Glu Leu Glu Ala Leu Glu Gly Leu Ala
            420                 425                 430

Leu Pro Ser Gly Arg Val Ala Tyr Ser Arg Leu Thr Leu Ser Gly Leu
        435                 440                 445

Thr Arg Val Met Arg Asp Asp Gly Val Asp Val His Asn Ala Arg Lys
    450                 455                 460

Thr Cys Phe Gly Val Asp Asp Asn Trp Arg Pro Pro Leu Pro Ala Leu
465                 470                 475                 480

His Glu Ala Thr Gly His Pro Val Val Asp Arg Asn Leu Ala Ile Leu
                485                 490                 495

Arg Lys Phe Leu Ser Ser Ala Thr Met Arg Trp Gly Pro Pro Gln Ser
            500                 505                 510

Ile Val Val Glu Leu Ala Arg Gly Ala Ser Glu Ser Arg Glu Arg Gln
        515                 520                 525

Ala Glu Glu Glu Ala Ala Arg Arg Ala His Arg Lys Ala Asn Asp Arg
    530                 535                 540

Ile Arg Ala Glu Leu Arg Ala Ser Gly Leu Ser Asp Pro Ser Pro Ala
545                 550                 555                 560

Asp Leu Val Arg Ala Arg Leu Leu Glu Leu Tyr Asp Cys His Cys Met
                565                 570                 575

Tyr Cys Gly Ala Pro Ile Ser Trp Glu Asn Ser Glu Leu Asp His Ile
            580                 585                 590

Val Pro Arg Thr Asp Gly Gly Ser Asn Arg His Glu Asn Leu Ala Ile
        595                 600                 605
```

```
Thr Cys Gly Ala Cys Asn Lys Glu Lys Gly Arg Arg Pro Phe Ala Ser
    610                 615                 620

Trp Ala Glu Thr Ser Asn Arg Val Gln Leu Arg Asp Val Ile Asp Arg
625                 630                 635                 640

Val Gln Lys Leu Lys Tyr Ser Gly Asn Met Tyr Trp Thr Arg Asp Glu
                645                 650                 655

Phe Ser Arg Tyr Lys Lys Ser Val Val Ala Arg Leu Lys Arg Arg Thr
            660                 665                 670

Ser Asp Pro Glu Val Ile Gln Ser Ile Glu Ser Thr Gly Tyr Ala Ala
        675                 680                 685

Val Ala Leu Arg Asp Arg Leu Leu Ser Tyr Gly Glu Lys Asn Gly Val
    690                 695                 700

Ala Gln Val Ala Val Phe Arg Gly Gly Val Thr Ala Glu Ala Arg Arg
705                 710                 715                 720

Trp Leu Asp Ile Ser Ile Glu Arg Leu Phe Ser Arg Val Ala Ile Phe
                725                 730                 735

Ala Gln Ser Thr Ser Thr Lys Arg Leu Asp Arg Arg His His Ala Val
            740                 745                 750

Asp Ala Val Val Leu Thr Thr Leu Thr Pro Gly Val Ala Lys Thr Leu
        755                 760                 765

Ala Asp Ala Arg Ser Arg Arg Val Ser Ala Glu Phe Trp Arg Arg Pro
    770                 775                 780

Ser Asp Val Asn Arg His Ser Thr Glu Glu Pro Gln Ser Pro Ala Tyr
785                 790                 795                 800

Arg Gln Trp Lys Glu Ser Cys Ser Gly Leu Gly Asp Leu Leu Ile Ser
                805                 810                 815

Thr Ala Ala Arg Asp Ser Ile Ala Val Ala Ala Pro Leu Arg Leu Arg
            820                 825                 830

Pro Thr Gly Ala Leu His Glu Glu Thr Leu Arg Ala Phe Ser Glu His
        835                 840                 845

Thr Val Gly Ala Ala Trp Lys Gly Ala Glu Leu Arg Arg Ile Val Glu
    850                 855                 860

Pro Glu Val Tyr Ala Ala Phe Leu Ala Leu Thr Asp Pro Gly Gly Arg
865                 870                 875                 880
```

```
Phe Leu Lys Val Ser Pro Ser Glu Asp Val Leu Pro Ala Asp Glu Asn
               885                 890                 895

Arg His Ile Val Leu Ser Asp Arg Val Leu Gly Pro Arg Asp Arg Val
           900                 905                 910

Lys Leu Phe Pro Asp Asp Arg Gly Ser Ile Arg Val Arg Gly Gly Ala
       915                 920                 925

Ala Tyr Ile Ala Ser Phe His His Ala Arg Val Phe Arg Trp Gly Ser
   930                 935                 940

Ser His Ser Pro Ser Phe Ala Leu Leu Arg Val Ser Leu Ala Asp Leu
945                 950                 955                 960

Ala Val Ala Gly Leu Leu Arg Asp Gly Val Asp Val Phe Thr Ala Glu
               965                 970                 975

Leu Pro Pro Trp Thr Pro Ala Trp Arg Tyr Ala Ser Ile Ala Leu Val
           980                 985                 990

Lys Ala Val Glu Ser Gly Asp Ala  Lys Gln Val Gly Trp  Leu Val Pro
       995                 1000                1005

Gly Asp  Glu Leu Asp Phe Gly  Pro Glu Gly Val Thr  Thr Ala Ala
   1010                1015                1020

Gly Asp  Leu Ser Met Phe Leu  Lys Tyr Phe Pro Glu  Arg His Trp
   1025                1030                1035

Val Val  Thr Gly Phe Glu Asp  Asp Lys Arg Ile Asn  Leu Lys Pro
   1040                1045                1050

Ala Phe  Leu Ser Ala Glu Gln  Ala Glu Val Leu Arg  Thr Glu Arg
   1055                1060                1065

Ser Asp  Arg Pro Asp Thr Leu  Thr Glu Ala Gly Glu  Ile Leu Ala
   1070                1075                1080

Gln Phe  Phe Pro Arg Cys Trp  Arg Ala Thr Val Ala  Lys Val Leu
   1085                1090                1095

Cys His  Pro Gly Leu Thr Val  Ile Arg Arg Thr Ala  Leu Gly Gln
   1100                1105                1110

Pro Arg  Trp Arg Arg Gly His  Leu Pro Tyr Ser Trp  Arg Pro Trp
   1115                1120                1125

Ser Ala  Asp Pro Trp Ser Gly  Gly Thr Pro
   1130                1135
```

<210> 386
<211> 1265
<212> PRT
<213> Mycoplasma ovipneumoniae

<400> 386

Met His Asn Lys Lys Asn Ile Thr Ile Gly Phe Asp Leu Gly Ile Ala
1 5 10 15

Ser Ile Gly Trp Ala Ile Ile Asp Ser Thr Thr Ser Lys Ile Leu Asp
20 25 30

Trp Gly Thr Arg Thr Phe Glu Glu Arg Lys Thr Ala Asn Glu Arg Arg
35 40 45

Ala Phe Arg Ser Thr Arg Arg Asn Ile Arg Arg Lys Ala Tyr Arg Asn
50 55 60

Gln Arg Phe Ile Asn Leu Ile Leu Lys Tyr Lys Asp Leu Phe Glu Leu
65 70 75 80

Lys Asn Ile Ser Asp Ile Gln Arg Ala Asn Lys Lys Asp Thr Glu Asn
85 90 95

Tyr Glu Lys Ile Ile Ser Phe Phe Thr Glu Ile Tyr Lys Lys Cys Ala
100 105 110

Ala Lys His Ser Asn Ile Leu Glu Val Lys Val Lys Ala Leu Asp Ser
115 120 125

Lys Ile Glu Lys Leu Asp Leu Ile Trp Ile Leu His Asp Tyr Leu Glu
130 135 140

Asn Arg Gly Phe Phe Tyr Asp Leu Glu Glu Glu Asn Val Ala Asp Lys
145 150 155 160

Tyr Glu Gly Ile Glu His Pro Ser Ile Leu Leu Tyr Asp Phe Phe Lys
165 170 175

Lys Asn Gly Phe Phe Lys Ser Asn Ser Ser Ile Pro Lys Asp Leu Gly
180 185 190

Gly Tyr Ser Phe Ser Asn Leu Gln Trp Val Asn Glu Ile Lys Lys Leu
195 200 205

Phe Glu Val Gln Glu Ile Asn Pro Glu Phe Ser Glu Lys Phe Leu Asn
210 215 220

Leu Phe Thr Ser Val Arg Asp Tyr Ala Lys Gly Pro Gly Ser Glu His
225 230 235 240

Ser Ala Ser Glu Tyr Gly Ile Phe Gln Lys Asp Glu Lys Gly Lys Val

245 250 255

Phe Lys Lys Tyr Asp Asn Ile Trp Asp Lys Thr Ile Gly Lys Cys Ser
260 265 270

Phe Phe Val Glu Glu Asn Arg Ser Pro Val Asn Tyr Pro Ser Tyr Glu
275 280 285

Ile Phe Asn Leu Leu Asn Gln Leu Ile Asn Leu Ser Thr Asp Leu Lys
290 295 300

Thr Thr Asn Lys Lys Ile Trp Gln Leu Ser Ser Asn Asp Arg Asn Glu
305 310 315 320

Leu Leu Asp Glu Leu Leu Lys Val Lys Glu Lys Ala Lys Ile Ile Ser
325 330 335

Ile Ser Leu Lys Lys Asn Glu Ile Lys Lys Ile Ile Leu Lys Asp Phe
340 345 350

Gly Phe Glu Lys Ser Asp Ile Asp Asp Gln Asp Thr Ile Glu Gly Arg
355 360 365

Lys Ile Ile Lys Glu Glu Pro Thr Thr Lys Leu Glu Val Thr Lys His
370 375 380

Leu Leu Ala Thr Ile Tyr Ser His Ser Ser Asp Ser Asn Trp Ile Asn
385 390 395 400

Ile Asn Asn Ile Leu Glu Phe Leu Pro Tyr Leu Asp Ala Ile Cys Ile
405 410 415

Ile Leu Asp Arg Glu Lys Ser Arg Gly Gln Asp Glu Val Leu Lys Lys
420 425 430

Leu Thr Glu Lys Asn Ile Phe Glu Val Leu Lys Ile Asp Arg Glu Lys
435 440 445

Gln Leu Asp Phe Val Lys Ser Ile Phe Ser Asn Thr Lys Phe Asn Phe
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Lys Lys Ile Gly Asn Phe Ser Leu Lys Ala Ile Arg Glu Phe Leu Pro
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Lys Met Phe Glu Gln Asn Lys Asn Ser Glu Tyr Leu Lys Trp Lys Asp
485 490 495

Glu Glu Ile Arg Arg Lys Trp Glu Glu Gln Lys Ser Lys Leu Gly Lys
500 505 510

Thr Asp Lys Lys Thr Lys Tyr Leu Asn Pro Arg Ile Phe Gln Asp Glu

515 520 525

Ile Ile Ser Pro Gly Thr Lys Asn Thr Phe Glu Gln Ala Val Leu Val
530 535 540

Leu Asn Gln Ile Ile Lys Lys Tyr Ser Lys Glu Asn Ile Ile Asp Ala
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Ile Ile Ile Glu Ser Pro Arg Glu Lys Asn Asp Lys Lys Thr Ile Glu
565 570 575

Glu Ile Lys Lys Arg Asn Lys Lys Gly Lys Gly Lys Thr Leu Glu Lys
580 585 590

Leu Phe Gln Ile Leu Asn Leu Glu Asn Lys Gly Tyr Lys Leu Ser Asp
595 600 605

Leu Glu Thr Lys Pro Ala Lys Leu Leu Asp Arg Leu Arg Phe Tyr His
610 615 620

Gln Gln Asp Gly Ile Asp Leu Tyr Thr Leu Asp Lys Ile Asn Ile Asp
625 630 635 640

Gln Leu Ile Asn Gly Ser Gln Lys Tyr Glu Ile Glu His Ile Ile Pro
645 650 655

Tyr Ser Met Ser Tyr Asp Asn Ser Gln Ala Asn Lys Ile Leu Thr Glu
660 665 670

Lys Ala Glu Asn Leu Lys Lys Gly Lys Leu Ile Ala Ser Glu Tyr Ile
675 680 685

Lys Arg Asn Gly Asp Glu Phe Tyr Asn Lys Tyr Tyr Glu Lys Ala Lys
690 695 700

Glu Leu Phe Ile Asn Lys Tyr Lys Lys Asn Lys Lys Leu Asp Ser Tyr
705 710 715 720

Val Asp Leu Asp Glu Asp Ser Ala Lys Asn Arg Phe Arg Phe Leu Thr
725 730 735

Leu Gln Asp Tyr Asp Glu Phe Gln Val Glu Phe Leu Ala Arg Asn Leu
740 745 750

Asn Asp Thr Arg Tyr Ser Thr Lys Leu Phe Tyr His Ala Leu Val Glu
755 760 765

His Phe Glu Asn Asn Glu Phe Phe Thr Tyr Ile Asp Glu Asn Ser Ser
770 775 780

Lys His Lys Val Lys Ile Ser Thr Ile Lys Gly His Val Thr Lys Tyr

785 790 795 800

Phe Arg Ala Lys Pro Val Gln Lys Asn Asn Gly Pro Asn Glu Asn Leu
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Asn Asn Asn Lys Pro Glu Lys Ile Glu Lys Asn Arg Glu Asn Asn Glu
820 825 830

His His Ala Val Asp Ala Ala Ile Val Ala Ile Ile Gly Asn Lys Asn
835 840 845

Pro Gln Ile Ala Asn Leu Leu Thr Leu Ala Asp Asn Lys Thr Asp Lys
850 855 860

Lys Phe Leu Leu His Asp Glu Asn Tyr Lys Glu Asn Ile Glu Thr Gly
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Glu Leu Val Lys Ile Pro Lys Phe Glu Val Asp Lys Leu Ala Lys Val
885 890 895

Glu Asp Leu Lys Lys Ile Ile Gln Glu Lys Tyr Glu Glu Ala Lys Lys
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His Thr Ala Ile Lys Phe Ser Arg Lys Thr Arg Thr Ile Leu Asn Gly
915 920 925

Gly Leu Ser Asp Glu Thr Leu Tyr Gly Phe Lys Tyr Asp Glu Lys Glu
930 935 940

Asp Lys Tyr Phe Lys Ile Ile Lys Lys Lys Leu Val Thr Ser Lys Asn
945 950 955 960

Glu Glu Leu Lys Lys Tyr Phe Glu Asn Pro Phe Gly Lys Lys Ala Asp
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Gly Lys Ser Glu Tyr Thr Val Leu Met Ala Gln Ser His Leu Ser Glu
980 985 990

Phe Asn Lys Leu Lys Glu Ile Phe Glu Lys Tyr Asn Gly Phe Ser Asn
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Lys Thr Gly Asn Ala Phe Val Glu Tyr Met Asn Asp Leu Ala Leu
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Lys Glu Pro Thr Leu Lys Ala Glu Ile Glu Ser Ala Lys Ser Val
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Tyr His Asp Asn Ile Asn Asn Lys Ser Phe Lys Arg Phe Tyr Lys

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Asn Ile Arg Ile Ile Glu Tyr Lys Ser Ile Pro Ile Lys Phe Lys
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Phe Ser Leu Tyr Ser Leu Val Tyr Lys Val Tyr Glu Asn Gly Lys
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Glu Lys Leu Asp Ile Tyr Lys Ser Asp Phe Ala Lys Pro Ile Pro
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Val Asn Cys Lys Pro Val Phe Val Leu Lys Lys Gly Ser Ile Leu
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Lys Lys Lys Ser Leu Asp Ile Asp Asp Phe Lys Glu Thr Lys Glu
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Thr Glu Glu Gly Asn Tyr Tyr Phe Ile Ser Thr Ile Ser Lys Arg
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Phe Asn Arg Asp Thr Ala Tyr Gly Leu Lys Pro Leu Lys Leu Ser
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Val Val Lys Pro Val Ala Glu Pro Ser Thr Asn Pro Ile Phe Lys
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Glu Tyr Ile Pro Ile His Leu Asp Glu Leu Gly Asn Glu Tyr Pro
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gcugcggucc ucgggga 17

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<210> 544
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<210> 545
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<220>
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<210> 546
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<210> 547
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<220>
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<210> 548
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gucgugggcg gccugcu 17

<210> 552

<211> 17
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guuuggaacu ggccggc 17

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ggccgucauc ugcuccc 17

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gcugcuaguc uggguc 17

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gccuggugcu gcuaguc 17

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agggactgag agtgaaaggt 20

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gcucguggug accgaag 17

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gcccggcgca augacag 17

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<400> 574

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cgcccuggcc agucguc 17

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<220>
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accgcccaga cgacuggcca 20

<210> 582
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<220>
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cgacuggcca gggcgccugu 20

<210> 583
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<220>
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agcaccgccc agacgac 17

<210> 584
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<220>
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<400> 584
cgcccagacg acuggcc 17

<210> 585
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<220>
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cccugcucgu ggugaccgaa 20

<210> 586

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cugcagcuuc uccaacacau 20

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<220>
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cagcuucucc aacacau 17

<210> 590
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<220>
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acuuccacau gagcgugguc 20

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<220>
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<220>
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ugacuuccac augagcg 17

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<220>
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uccacaugag cgugguc 17

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<220>
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agggcccggc gcaaugacag 20

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<220>
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<220>
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ugccgcuguc auugcgc 17

<210> 597
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<220>
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<210> 598
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<220>
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<210> 599
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<220>
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<400> 599
uggaagucac gcccguu 17

<210> 600
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<220>
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<400> 600
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<210> 601
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<220>
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cacggaagcg gcagucc 17

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<220>
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<210> 604
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<220>
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cccuucgguc accacgagca 20

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ucggucacca cgagcagggc 20

<210> 606
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<220>
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cuucggucac cacgagc 17

<210> 607
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uucggucacc acgagca 17

<210> 608
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<400> 608

gaagcggcag uccuggc 17

<210> 609
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gaagcugcag gugaagg 17

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gaagguggcg uuguccccuu 20

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gaaggugggg ggguucc 17

<210> 612
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agaucaaaga gagccug 17

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cccugagcuc ugcccgc 17

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ccgcagccag cccggcc 17

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ccugcgggca gagcuca 17

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ccuggccggg cuggcug 17

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<210> 750
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cgcagaucaa agagagccug 20

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<220>
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cggcaccuac cucugug 17

<210> 756

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cggccaggau gguucuu 17

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<210> 759
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<220>
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<210> 761
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<220>
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cggugcuaca acugggc 17

<210> 763
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<220>
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cggugcuaca acugggcugg 20

<210> 764
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<210> 765
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<210> 768
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cuccccagcc cugcucg 17

<210> 769
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<210> 770
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<210> 771
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<220>
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<210> 772
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<220>
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cucuuugauc ugcgccuugg 20

<210> 773

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<220>
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<210> 774
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<400> 774
cugccccggg gccuccg 17

<210> 775
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cugcgccuug ggggcca 17

<210> 776
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<400> 776
cugcucgugg ugaccga 17

<210> 777
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<220>
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cuggccaggg cgccugu 17

<210> 778
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<220>
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<400> 778

cuggccaguc gucuggg 17

<210> 779
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<210> 780
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<220>
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<210> 781
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<210> 782
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<220>
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<210> 783
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cuuccacaug agcgugguca 20

<210> 784
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<210> 785
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<210> 786
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<210> 787
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cuuugaucug cgccuug 17

<210> 788
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<220>
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uagguaggug gggucgg 17

<210> 789
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<220>
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ucaccacgag cagggcu 17

<210> 790

<211> 20
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<220>
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<210> 791
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<220>
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<210> 792
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<220>
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<210> 793
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<210> 794
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<220>
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<210> 795
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<220>
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<210> 796
<211> 17
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<220>
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<210> 797
<211> 20
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<220>
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<210> 798
<211> 17
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<220>
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<400> 798
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<210> 799
<211> 20
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<220>
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<400> 799
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<210> 800
<211> 17
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<220>
<223> Synthetic oligonucleotide: PDCD1-170

<400> 800
ucuuugaucu gcgccuu 17

<210> 801
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-146

<400> 801
ugagcguggu cagggcc 17

<210> 802
<211> 20
<212> RNA
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<400> 802
ugaucugcgc cuuggggcc 20

<210> 803
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<400> 803
ugcagauccc acaggcgccc 20

<210> 804
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<210> 805
<211> 17
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<220>
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ugcuacaacu gggcugg 17

<210> 806
<211> 17
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<220>
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<400> 806
uggagagagg ugaggaa 17

<210> 807

<211> 20
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<220>
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<400> 807
uggcggccag gaugguucuu 20

<210> 808
<211> 17
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<220>
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<400> 808
ugggcaguug ugugaca 17

<210> 809
<211> 17
<212> RNA
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<220>
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<400> 809
ugggcuggcg gccagga 17

<210> 810
<211> 17
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<220>
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<400> 810
ugguucuuag guaggug 17

<210> 811
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<220>
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<400> 811
uguccgucug guugcug 17

<210> 812
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<220>
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ugucugggga gucugagaga 20

<210> 813
<211> 17
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<220>
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<400> 813
ugugggaucu gcaugcc 17

<210> 814
<211> 17
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<220>
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<400> 814
uguguuggag aagcugc 17

<210> 815
<211> 17
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<220>
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<400> 815
uuguccgucu gguugcu 17

<210> 816
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<220>
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<400> 816
uuugaucugc gccuugg 17

<210> 817
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<220>
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<400> 817
uuugugcccu uccagagaga 20

<210> 818
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<220>
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<210> 819
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<220>
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<400> 819
cccaccccag ccccucaccc 20

<210> 820
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<220>
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<400> 820
agccccucac ccaggccagc 20

<210> 821
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<220>
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<400> 821
agccggccag uuccaaaccc 20

<210> 822
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<220>
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<400> 822
cggccaguuc caaacccugg 20

<210> 823
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<220>
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<400> 823
caguuccaaa cccugguggu 20

<210> 824

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<220>
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<400> 824
aacccuggug guuggugucg 20

<210> 825
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<220>
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<400> 825
acccuggugg uuggugucgu 20

<210> 826
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<220>
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<400> 826
cuggugguug gugucguggg 20

<210> 827
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<220>
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uggugucgug ggcggccugc 20

<210> 828
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<220>
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<400> 828
ggugucgugg gcggccugcu 20

<210> 829
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<220>
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<400> 829

gggcggccug cugggcagcc 20

<210> 830
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<220>
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<400> 830
gcagccuggu gcugcuaguc 20

<210> 831
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<220>
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<400> 831
cagccuggug cugcuagucu 20

<210> 832
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<220>
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ggugcugcua gucugggucc 20

<210> 833
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<220>
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<400> 833
uccuggccgu caucugcucc 20

<210> 834
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<220>
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<400> 834
ccuggccguc aucugcuccc 20

<210> 835
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<220>
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<400> 835
aucugcuccc gggccgcacg 20

<210> 836
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<220>
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<400> 836
guaacgucau cccagccccu 20

<210> 837
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<220>
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<400> 837
ccccaagugu guuucucugc 20

<210> 838
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<220>
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<400> 838
cccaagugug uuucucugca 20

<210> 839
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<220>
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<400> 839
uguuucucug cagggacaau 20

<210> 840
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<220>
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cugcagggac aauaggagcc 20

<210> 841

<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-279

<400> 841
acaauaggag ccaggcgcac 20

<210> 842
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<220>
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<400> 842
caggcgcacc ggccagcccc 20

<210> 843
<211> 20
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<220>
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<400> 843
ucucccuuuc uccucaaaga 20

<210> 844
<211> 20
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<220>
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<400> 844
cccuuucucc ucaaagaagg 20

<210> 845
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<220>
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<400> 845
agccgugccu guguucucug 20

<210> 846
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<220>
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<400> 846

ccuguguucu cuguggacua 20

<210> 847
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<220>
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<400> 847
cuguguucuc uguggacuau 20

<210> 848
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<220>
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<400> 848
uguguucucu guggacuaug 20

<210> 849
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<220>
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<400> 849
cucuguggac uaugggagc 20

<210> 850
<211> 20
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<220>
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<400> 850
auggggagcu ggauuuccag 20

<210> 851
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<220>
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<400> 851
ccaguggcga gagaagaccc 20

<210> 852
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<220>
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<400> 852
gcccuguguc ccugagcaga 20

<210> 853
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<220>
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<400> 853
gccaccauug ucuuuccuag 20

<210> 854
<211> 20
<212> RNA
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<220>
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<400> 854
cauugucuuu ccuagcggaa 20

<210> 855
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-293

<400> 855
auugucuuuc cuagcggaau 20

<210> 856
<211> 20
<212> RNA
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<220>
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<400> 856
gcaccucauc ccccgcccgc 20

<210> 857
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-295

<400> 857
caccucaucc cccgcccgca 20

<210> 858

<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-296

<400> 858
accucauccc ccgcccgcag 20

<210> 859
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-297

<400> 859
gcccgcaggg gcucagcuga 20

<210> 860
<211> 20
<212> RNA
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<220>
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<400> 860
ggggcucagc ugacggcccu 20

<210> 861
<211> 20
<212> RNA
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<220>
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<400> 861
cucggagugc ccagccacug 20

<210> 862
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-300

<400> 862
ugcccagcca cugaggccug 20

<210> 863
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ugcccuucca gagagaa 17

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accccagccc cucaccc 17

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cccucaccca ggccagc 17

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ccaguuccaa acccugg 17

<210> 873
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uuccaaaccc uggugguu 17

<210> 874
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ccuggugguu ggugucg 17

<210> 875

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<210> 876
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gugguuggug ucguggg 17

<210> 877
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<220>
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<210> 878
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<220>
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<210> 879
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<220>
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gccuggugcu gcuaguc 17

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ccuggugcug cuagucu 17

<210> 882
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gcugcuaguc uggguc 17

<210> 883
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uggccgucau cugcucc 17

<210> 884
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<220>
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ggccgucauc ugcuccc 17

<210> 885
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<220>
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<210> 886
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<220>
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<210> 887
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<210> 888
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<220>
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aaguguguuu cucugca 17

<210> 889
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<210> 890
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<210> 891
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<400> 891
auaggagcca ggcgcac 17

<210> 892

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<400> 892
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<210> 893
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cccuuucucc ucaaaga 17

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uuucuccuca aagaagg 17

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<210> 896
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<210> 897
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<220>
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<400> 897

uguucucugu ggacuau 17

<210> 898
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<220>
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guucucugug gacuaug 17

<210> 899
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<220>
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uguggacuau ggggagc 17

<210> 900
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<220>
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<210> 901
<211> 17
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<220>
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<210> 902
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<220>
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<400> 902
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<210> 903
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<220>
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<400> 903
accauugucu uuccuag 17

<210> 904
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<220>
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<210> 905
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<220>
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<210> 906
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<210> 907
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<400> 907
cucaucccc gcccgca 17

<210> 908
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ucaucccccg cccgcag 17

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<400> 910
gcucagcuga cggcccu 17

<210> 911
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<220>
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<400> 911
ggagugccca gccacug 17

<210> 912
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<220>
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<400> 912
ccagccacug aggccug 17

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<400> 913
ccacugaggc cugagga 17

<210> 914
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<400> 914

aggauggaca cugcucu 17

<210> 915
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<220>
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<400> 915
cucuuggccc cucugac 17

<210> 916
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<220>
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<400> 916
ccucugaccg gcuuccu 17

<210> 917
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<220>
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<400> 917
gggcacaaag gucagggguu 20

<210> 918
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<220>
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<400> 918
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<210> 919
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<220>
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<210> 920
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<210> 921
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<220>
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<210> 922
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<220>
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<400> 922
uucugcccuu cucucuggaa 20

<210> 923
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<220>
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<400> 923
cuucugcccu ucucucugga 20

<210> 924
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<220>
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<400> 924
ggcacuucug cccuucucuc 20

<210> 925
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<220>
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<400> 925
gaggggcugg ggugggcugu 20

<210> 926

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<220>
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<400> 926
ugaggggcug ggggugggcug 20

<210> 927
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<210> 928
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<220>
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<210> 929
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<220>
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<210> 931
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ggcuggccug ggugaggggc 20

<210> 932
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<220>
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<220>
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<210> 934
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<220>
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cuggccggcu ggccugggug 20

<210> 935
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<220>
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<210> 936
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<220>
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<400> 936
uuggaacugg ccggcuggcc 20

<210> 937
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<220>
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aggguuugga acuggccggc 20

<210> 938
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<220>
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<400> 938
caccaggguu uggaacuggc 20

<210> 939
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<220>
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caaccaccag gguuuggaac 20

<210> 940
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<220>
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<210> 941
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<220>
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<400> 941
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<210> 942
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<220>
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<400> 942
cgcccacgac accaaccacc 20

<210> 943

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gcagcaccag gcugcccagc 20

<210> 944
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<220>
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ggacccagac uagcagcacc 20

<210> 945
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<220>
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<210> 946
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<220>
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<210> 947
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<220>
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<400> 947
gacguuaccu cgugcggccc 20

<210> 948
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<220>
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<400> 948

ugacguuacc ucgugcggcc 20

<210> 949
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<220>
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<400> 949
ugggaugacg uuaccucgug 20

<210> 950
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<220>
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<400> 950
gaaacacacu uggggucacc 20

<210> 951
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<220>
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<400> 951
ccugcagaga aacacacuug 20

<210> 952
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<220>
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<400> 952
cccugcagag aaacacacuu 20

<210> 953
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<220>
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<400> 953
ucccugcaga gaaacacacu 20

<210> 954
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<220>
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<400> 954
caggggcugg ccggugcgcc 20

<210> 955
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<220>
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<400> 955
gagacucacc aggggcuggc 20

<210> 956
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<220>
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<400> 956
gagugagacu caccaggggc 20

<210> 957
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<220>
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aaaagaguga gacucaccag 20

<210> 958
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<220>
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<400> 958
gaaaagagug agacucacca 20

<210> 959
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<220>
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<400> 959
ggaaaagagu gagacucacc 20

<210> 960

<211> 20
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<220>
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<400> 960
ucuuugagga gaaagggaga 20

<210> 961
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<220>
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<400> 961
uucuuugagg agaaagggag 20

<210> 962
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<220>
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<400> 962
ccuccuucuu ugaggagaaa 20

<210> 963
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<220>
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<400> 963
uccuccuucu uugaggagaa 20

<210> 964
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<220>
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<400> 964
ugaggggucc uccuucuuug 20

<210> 965
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<220>
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<400> 965

agaacacagg cacggcugag 20

<210> 966
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<220>
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<400> 966
gagaacacag gcacggcuga 20

<210> 967
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<220>
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<400> 967
agagaacaca ggcacggcug 20

<210> 968
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<220>
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<400> 968
guccacagag aacacaggca 20

<210> 969
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<220>
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<400> 969
ccauagucca cagagaacac 20

<210> 970
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<220>
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<400> 970
ccggggucuu cucucgccac 20

<210> 971
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<220>
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<400> 971
acagggcacg gggggcuccg 20

<210> 972
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<220>
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<400> 972
cacagggcac ggggggcucc 20

<210> 973
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<220>
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<400> 973
acacagggca cgggggcuc 20

<210> 974
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<220>
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<400> 974
ucagggacac agggcacggg 20

<210> 975
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<220>
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<400> 975
cucagggaca cagggcacgg 20

<210> 976
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<220>
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<400> 976
gcucagggac acagggcacg 20

<210> 977

<211> 20
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<220>
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<400> 977
ugcucaggga cacagggcac 20

<210> 978
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<220>
<223> Synthetic oligonucleotide: PDCD1-416

<400> 978
cugcucaggg acacagggca 20

<210> 979
<211> 20
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<220>
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<400> 979
uccgucugcu cagggacaca 20

<210> 980
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<220>
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<400> 980
cuccgucugc ucagggacac 20

<210> 981
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<220>
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<400> 981
uggcauacuc cgucugcuca 20

<210> 982
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<220>
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<400> 982

guggcauacu ccgucugcuc 20

<210> 983
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<220>
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<400> 983
uccgcuagga aagacaaugg 20

<210> 984
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<220>
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<400> 984
cauuccgcua ggaaagacaa 20

<210> 985
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<220>
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<400> 985
gaugaggugc ccauuccgcu 20

<210> 986
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<220>
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<400> 986
gccccugcgg gcgggggaug 20

<210> 987
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<220>
<223> Synthetic oligonucleotide: PDCD1-425

<400> 987
agcugagccc cugcgggcgg 20

<210> 988
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<220>
<223> Synthetic oligonucleotide: PDCD1-426

<400> 988
cagcugagcc ccugcgggcg 20

<210> 989
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<220>
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<400> 989
ucagcugagc cccugcgggc 20

<210> 990
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<220>
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<400> 990
gucagcugag ccccugcggg 20

<210> 991
<211> 20
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<220>
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<400> 991
gccgucagcu gagccccugc 20

<210> 992
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<220>
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<400> 992
ggccgucagc ugagccccug 20

<210> 993
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<220>
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<400> 993
ucaguggcug ggcacuccga 20

<210> 994

<211> 20
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<220>
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<400> 994
cucaguggcu gggcacuccg 20

<210> 995
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<220>
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<400> 995
auccucaggc cucaguggcu 20

<210> 996
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<220>
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<400> 996
cauccucagg ccucaguggc 20

<210> 997
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<220>
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<400> 997
uguccauccu caggccucag 20

<210> 998
<211> 20
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<220>
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<400> 998
caagagcagu guccauccuc 20

<210> 999
<211> 20
<212> RNA
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<220>
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<400> 999

gccaaggaag ccggucagag 20

<210> 1000
<211> 20
<212> RNA
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<220>
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<400> 1000
ggccaaggaa gccggucaga 20

<210> 1001
<211> 20
<212> RNA
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<220>
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<400> 1001
uggccaagga agccggucag 20

<210> 1002
<211> 20
<212> RNA
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<220>
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<400> 1002
acacuggugg ccaaggaagc 20

<210> 1003
<211> 20
<212> RNA
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<220>
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<400> 1003
cugcagaaca cugguggcca 20

<210> 1004
<211> 17
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<220>
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<400> 1004
cacaaagguc agggguu 17

<210> 1005
<211> 17
<212> RNA
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<220>
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<400> 1005
aagggcacaa aggucag 17

<210> 1006
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-444

<400> 1006
gaagggcaca aagguca 17

<210> 1007
<211> 17
<212> RNA
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<220>
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<400> 1007
ggaagggcac aaagguc 17

<210> 1008
<211> 17
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<220>
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<400> 1008
ucucuggaag ggcacaa 17

<210> 1009
<211> 17
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<220>
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<400> 1009
ugcccuucuc ucuggaa 17

<210> 1010
<211> 17
<212> RNA
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<220>
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<400> 1010
cugcccuucu cucugga 17

<210> 1011

<211> 17
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<220>
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<400> 1011
acuucugccc uucucuc 17

<210> 1012
<211> 17
<212> RNA
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<220>
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<400> 1012
gggcuggggu gggcugu 17

<210> 1013
<211> 17
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<220>
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<400> 1013
ggggcugggg ugggcug 17

<210> 1014
<211> 17
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<220>
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<400> 1014
gggugagggg cuggggu 17

<210> 1015
<211> 17
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<220>
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<400> 1015
ugggugaggg gcugggg 17

<210> 1016
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<220>
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<400> 1016

gccuggguga ggggcug 17

<210> 1017
<211> 17
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<220>
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<400> 1017
ggccugggug aggggcu 17

<210> 1018
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<220>
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<400> 1018
uggccugggu gaggggc 17

<210> 1019
<211> 17
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<220>
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<400> 1019
cggcuggccu gggugag 17

<210> 1020
<211> 17
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<220>
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<400> 1020
ccggcuggcc uggguga 17

<210> 1021
<211> 17
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<220>
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<400> 1021
gccggcuggc cugggug 17

<210> 1022
<211> 17
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<220>
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<400> 1022
aacuggccgg cuggccu 17

<210> 1023
<211> 17
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<220>
<223> Synthetic oligonucleotide: PDCD1-461

<400> 1023
gaacuggccg gcuggcc 17

<210> 1024
<211> 17
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<220>
<223> Synthetic oligonucleotide: PDCD1-462

<400> 1024
guuuggaacu ggccggc 17

<210> 1025
<211> 17
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<220>
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<400> 1025
caggguuugg aacuggc 17

<210> 1026
<211> 17
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<220>
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<400> 1026
ccaccagggu uuggaac 17

<210> 1027
<211> 17
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<220>
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<400> 1027
caccaaccac caggguu 17

<210> 1028

<211> 17
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<220>
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<400> 1028
cacgacacca accacca 17

<210> 1029
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<220>
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<400> 1029
ccacgacacc aaccacc 17

<210> 1030
<211> 17
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<400> 1030
gcaccaggcu gcccagc 17

<210> 1031
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<220>
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<400> 1031
cccagacuag cagcacc 17

<210> 1032
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<220>
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<400> 1032
gggagcagau gacggcc 17

<210> 1033
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<220>
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<400> 1033

ggcccgggag cagauga 17

<210> 1034
<211> 17
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<400> 1034
guuaccucgu gcggccc 17

<210> 1035
<211> 17
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<220>
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<400> 1035
cguuaccucg ugcggcc 17

<210> 1036
<211> 17
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<220>
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<400> 1036
gaugacguua ccucgug 17

<210> 1037
<211> 17
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<220>
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<400> 1037
acacacuugg ggucacc 17

<210> 1038
<211> 17
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<220>
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<400> 1038
gcagagaaac acacuug 17

<210> 1039
<211> 17
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<220>
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<400> 1039
ugcagagaaa cacacuu 17

<210> 1040
<211> 17
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<220>
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<400> 1040
cugcagagaa acacacu 17

<210> 1041
<211> 17
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<220>
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<400> 1041
gggcuggccg gugcgcc 17

<210> 1042
<211> 17
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<220>
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<400> 1042
acucaccagg ggcuggc 17

<210> 1043
<211> 17
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<220>
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<400> 1043
ugagacucac caggggc 17

<210> 1044
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<220>
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<400> 1044
agagugagac ucaccag 17

<210> 1045

<211> 17
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<220>
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<400> 1045
aagagugaga cucacca 17

<210> 1046
<211> 17
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<220>
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<400> 1046
aaagagugag acucacc 17

<210> 1047
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<220>
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<400> 1047
uugaggagaa agggaga 17

<210> 1048
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<220>
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<400> 1048
uuugaggaga aagggag 17

<210> 1049
<211> 17
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<220>
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<400> 1049
ccuucuuuga ggagaaa 17

<210> 1050
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<220>
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<400> 1050

uccuucuuug aggagaa 17

<210> 1051
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-489

<400> 1051
gggguccucc uucuuug 17

<210> 1052
<211> 17
<212> RNA
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<220>
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<400> 1052
acacaggcac ggcugag 17

<210> 1053
<211> 17
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<220>
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<400> 1053
aacacaggca cggcuga 17

<210> 1054
<211> 17
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<220>
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<400> 1054
gaacacaggc acggcug 17

<210> 1055
<211> 17
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<220>
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<400> 1055
cacagagaac acaggca 17

<210> 1056
<211> 17
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<220>
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<400> 1056
uaguccacag agaacac 17

<210> 1057
<211> 17
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<220>
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<400> 1057
gggucuucuc ucgccac 17

<210> 1058
<211> 17
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<220>
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<400> 1058
gggcacgggg ggcuccg 17

<210> 1059
<211> 17
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<220>
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<400> 1059
agggcacggg gggcucc 17

<210> 1060
<211> 17
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<220>
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<400> 1060
cagggcacgg ggggcuc 17

<210> 1061
<211> 17
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<220>
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<400> 1061
gggacacagg gcacggg 17

<210> 1062

<211> 17
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<220>
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<400> 1062
agggacacag ggcacgg 17

<210> 1063
<211> 17
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<220>
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<400> 1063
cagggacaca gggcacg 17

<210> 1064
<211> 17
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<220>
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<400> 1064
ucagggacac agggcac 17

<210> 1065
<211> 17
<212> RNA
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<220>
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<400> 1065
cucagggaca cagggca 17

<210> 1066
<211> 17
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<220>
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<400> 1066
gucugcucag ggacaca 17

<210> 1067
<211> 17
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<220>
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<400> 1067

cgucugcuca gggacac 17

<210> 1068
<211> 17
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<220>
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<400> 1068
cauacuccgu cugcuca 17

<210> 1069
<211> 17
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<220>
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<400> 1069
gcauacuccg ucugcuc 17

<210> 1070
<211> 17
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<220>
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<400> 1070
gcuaggaaag acaaugg 17

<210> 1071
<211> 17
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<220>
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<400> 1071
uccgcuagga aagacaa 17

<210> 1072
<211> 17
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<220>
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<400> 1072
gaggugccca uuccgcu 17

<210> 1073
<211> 17
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<220>
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<400> 1073
ccugcgggcg ggggaug 17

<210> 1074
<211> 17
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<220>
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<400> 1074
ugagccccug cgggcgg 17

<210> 1075
<211> 17
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<220>
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<400> 1075
cugagccccu gcgggcg 17

<210> 1076
<211> 17
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<220>
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<400> 1076
gcugagcccc ugcgggc 17

<210> 1077
<211> 17
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<220>
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<400> 1077
agcugagccc cugcggg 17

<210> 1078
<211> 17
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<220>
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<400> 1078
gucagcugag ccccugc 17

<210> 1079

<211> 17
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<220>
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<400> 1079
cgucagcuga gccccug 17

<210> 1080
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-518

<400> 1080
guggcugggc acuccga 17

<210> 1081
<211> 17
<212> RNA
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<220>
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<400> 1081
aguggcuggg cacuccg 17

<210> 1082
<211> 17
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<220>
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<400> 1082
cucaggccuc aguggcu 17

<210> 1083
<211> 17
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<220>
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<400> 1083
ccucaggccu caguggc 17

<210> 1084
<211> 17
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<220>
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<400> 1084

ccauccucag gccucag 17

<210> 1085
<211> 17
<212> RNA
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<220>
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<400> 1085
gagcaguguc cauccuc 17

<210> 1086
<211> 17
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<220>
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<400> 1086
aaggaagccg gucagag 17

<210> 1087
<211> 17
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<220>
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<400> 1087
caaggaagcc ggucaga 17

<210> 1088
<211> 17
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<220>
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<400> 1088
ccaaggaagc cggucag 17

<210> 1089
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1089
cugguggcca aggaagc 17

<210> 1090
<211> 17
<212> RNA
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<220>
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<400> 1090
cagaacacug guggcca 17

<210> 1091
<211> 20
<212> RNA
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<220>
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<400> 1091
caggcgcccu ggccagucgu 20

<210> 1092
<211> 20
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<220>
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<400> 1092
ucgucugggc ggugcuacaa 20

<210> 1093
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1093
gcuacaacug ggcuggcggc 20

<210> 1094
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-532

<400> 1094
ccaggauggu ucuuagguag 20

<210> 1095
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-115

<400> 1095
caggaugguu cuuagguagg 20

<210> 1096

<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-534

<400> 1096
ucagacuccc cagacaggcc 20

<210> 1097
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2

<400> 1097
cagacucccc agacaggccc 20

<210> 1098
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-536

<400> 1098
cccagcccug cucgugguga 20

<210> 1099
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-537

<400> 1099
agcccugcuc guggugaccg 20

<210> 1100
<211> 20
<212> RNA
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<220>
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<400> 1100
gcccugcucg uggugaccga 20

<210> 1101
<211> 20
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<220>
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<400> 1101

cccugcucgu ggugaccgaa 20

<210> 1102
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1102
ccugcagcuu cuccaacaca 20

<210> 1103
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-7

<400> 1103
cugcagcuuc uccaacacau 20

<210> 1104
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-542

<400> 1104
gcagcuucuc caacacaucg 20

<210> 1105
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-543

<400> 1105
ucgugcuaaa cugguaccgc 20

<210> 1106
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-544

<400> 1106
gcaugagccc cagcaaccag 20

<210> 1107
<211> 20
<212> RNA
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<220>
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<400> 1107
ggacaagcug gccgccuucc 20

<210> 1108
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1108
acaagcuggc cgccuucccc 20

<210> 1109
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1109
aggaccgcag ccagcccggc 20

<210> 1110
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1110
ccgugucaca caacugccca 20

<210> 1111
<211> 20
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<220>
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<400> 1111
ccaacgggcg ugacuuccac 20

<210> 1112
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-550

<400> 1112
gacuuccaca ugagcguggu 20

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<210> 1114
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<220>
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gacagcggca ccuaccucug 20

<210> 1115
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<220>
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<400> 1115
ggcccccaag gcgcagauca 20

<210> 1116
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<220>
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cccccaaggc gcagaucaaa 20

<210> 1117
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<220>
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<400> 1117
gcgcagauca aagagagccu 20

<210> 1118
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<220>
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<400> 1118

gaucaaagag agccugcggg 20

<210> 1119
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<400> 1119
gagagccugc gggcagagcu 20

<210> 1120
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<220>
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gcgcccuggc cagucgu 17

<210> 1121
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<400> 1121
ucugggcggu gcuacaa 17

<210> 1122
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acaacugggc uggcggc 17

<210> 1123
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<220>
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ggaugguucu uagguag 17

<210> 1124
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<220>
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<400> 1124
gaugguucuu agguagg 17

<210> 1125
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<220>
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<400> 1125
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acuccccaga caggccc 17

<210> 1127
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<220>
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<400> 1127
agcccugcuc gugguga 17

<210> 1128
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<220>
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ccugcucgug gugaccg 17

<210> 1129
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<220>
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<400> 1129
cugcucgugg ugaccga 17

<210> 1130

<211> 17
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<220>
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<400> 1130
ugcucguggu gaccgaa 17

<210> 1131
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<220>
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<400> 1131
gcagcuucuc caacaca 17

<210> 1132
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<220>
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<400> 1132
cagcuucucc aacacau 17

<210> 1133
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<220>
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gcuucuccaa cacaucg 17

<210> 1134
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<220>
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ugcuaaacug guaccgc 17

<210> 1135
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<220>
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<400> 1135

ugagccccag caaccag 17

<210> 1136
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<220>
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<400> 1136
caagcuggcc gccuucc 17

<210> 1137
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<220>
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<400> 1137
agcuggccgc cuucccc 17

<210> 1138
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<220>
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<400> 1138
accgcagcca gcccggc 17

<210> 1139
<211> 17
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<220>
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<400> 1139
ugucacacaa cugccca 17

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<220>
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acgggcguga cuuccac 17

<210> 1141
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<220>
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<400> 1141
uuccacauga gcguggu 17

<210> 1142
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<220>
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cagcggcacc uaccucu 17

<210> 1143
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<220>
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agcggcaccu accucug 17

<210> 1144
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<220>
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<400> 1144
ccccaaggcg cagauca 17

<210> 1145
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<220>
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<400> 1145
ccaaggcgca gaucaaa 17

<210> 1146
<211> 17
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<220>
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<400> 1146
cagaucaaag agagccu 17

<210> 1147

<211> 17
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<220>
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<400> 1147
caaagagagc cugcggg 17

<210> 1148
<211> 17
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<220>
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<400> 1148
agccugcggg cagagcu 17

<210> 1149
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-587

<400> 1149
caugccugga gcagccccac 20

<210> 1150
<211> 20
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<220>
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<400> 1150
gccuguggga ucugcaugcc 20

<210> 1151
<211> 20
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<220>
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<400> 1151
cgccuguggg aucugcaugc 20

<210> 1152
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<220>
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<400> 1152

acgacuggcc agggcgccug 20

<210> 1153
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<220>
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<400> 1153
gacgacuggc cagggcgccu 20

<210> 1154
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<220>
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<400> 1154
gcaccgccca gacgacuggc 20

<210> 1155
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<220>
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<400> 1155
accgccgacc ccaccuaccu 20

<210> 1156
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<220>
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<400> 1156
gagauggaga gaggugagga 20

<210> 1157
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<220>
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<400> 1157
agagauggag agaggugagg 20

<210> 1158
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<220>
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<400> 1158
cugagagaug gagagaggug 20

<210> 1159
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<220>
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<400> 1159
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<210> 1160
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<400> 1160
agucugagag auggagagag 20

<210> 1161
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<220>
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<400> 1161
uggggagucu gagagaugga 20

<210> 1162
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<220>
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<400> 1162
ucuggggagu cugagagaug 20

<210> 1163
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<220>
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<400> 1163
ugucugggga gucugagaga 20

<210> 1164

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<220>
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<400> 1164
cugucugggg agucugagag 20

<210> 1165
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<220>
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<400> 1165
agggccuguc uggggagucu 20

<210> 1166
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<220>
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<400> 1166
ccagggccug ucuggggagu 20

<210> 1167
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<220>
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<400> 1167
gggguuccag ggccugucug 20

<210> 1168
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<220>
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<400> 1168
gggggguucca gggccugucu 20

<210> 1169
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<220>
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<400> 1169

ggggggguucc agggccuguc 20

<210> 1170
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<220>
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<400> 1170
gggggggguuc cagggccugu 20

<210> 1171
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<220>
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<400> 1171
gggagaaggu gggggggguuc 20

<210> 1172
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<220>
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<400> 1172
cagggcuggg gagaaggugg 20

<210> 1173
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<220>
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<400> 1173
gcagggcugg ggagaaggug 20

<210> 1174
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<220>
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<400> 1174
agcagggcug gggagaaggu 20

<210> 1175
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<212> RNA
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<220>
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gagcagggcu ggggagaagg 20

<210> 1176
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<220>
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<400> 1176
cgagcagggc uggggagaag 20

<210> 1177
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<220>
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<400> 1177
ucaccacgag cagggcuggg 20

<210> 1178
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<220>
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<400> 1178
ggucaccacg agcagggcug 20

<210> 1179
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<220>
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cggucaccac gagcagggcu 20

<210> 1180
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<220>
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<400> 1180
ucggucacca cgagcagggc 20

<210> 1181

<211> 20
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<220>
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<400> 1181
uucggucacc acgagcaggg 20

<210> 1182
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<220>
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<400> 1182
uccccuucgg ucaccacgag 20

<210> 1183
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<220>
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<400> 1183
cguugucccc uucggucacc 20

<210> 1184
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<220>
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<400> 1184
auguguugga gaagcugcag 20

<210> 1185
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<220>
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cgaagcucuc cgauguguug 20

<210> 1186
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<220>
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<400> 1186

cacgaagcuc uccgaugugu 20

<210> 1187
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<220>
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<400> 1187
gcacgaagcu cuccgaugug 20

<210> 1188
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<220>
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<400> 1188
ucaugcggua ccaguuuagc 20

<210> 1189
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<220>
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<400> 1189
cagcuugucc gucugguugc 20

<210> 1190
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<220>
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ccagcuuguc cgucugguug 20

<210> 1191
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<220>
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cgggcuggcu gcgguccucg 20

<210> 1192
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<220>
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ccgggcuggc ugcgguccuc 20

<210> 1193
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<220>
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<400> 1193
gccgggcugg cugcgguccu 20

<210> 1194
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<220>
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<400> 1194
ggccgggcug gcugcggucc 20

<210> 1195
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<220>
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<400> 1195
cacggaagcg gcaguccugg 20

<210> 1196
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<220>
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<400> 1196
cguugggcag uugugugaca 20

<210> 1197
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<220>
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<400> 1197
ccguugggca guugugugac 20

<210> 1198

<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-636

<400> 1198
ucauguggaa gucacgcccg 20

<210> 1199
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<220>
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<400> 1199
gggcccugac cacgcucaug 20

<210> 1200
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<220>
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cgggcccuga ccacgcucau 20

<210> 1201
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<220>
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<400> 1201
uaggugccgc ugucauugcg 20

<210> 1202
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<220>
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<400> 1202
gggccaggga gauggcccca 20

<210> 1203
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<220>
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<400> 1203

gaucugcgcc uuggggggcca 20

<210> 1204
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<400> 1204
ugaucugcgc cuuggggggcc 20

<210> 1205
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<220>
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<400> 1205
uugaucugcg ccuuggggggc 20

<210> 1206
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<220>
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cucucuuuga ucugcgccuu 20

<210> 1207
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<220>
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gcucucuuug aucugcgccu 20

<210> 1208
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<220>
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ggcucucuuu gaucugcgcc 20

<210> 1209
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<220>
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<400> 1209
gccuggagca gccccac 17

<210> 1210
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<220>
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<400> 1210
ugugggaucu gcaugcc 17

<210> 1211
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<220>
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cugugggauc ugcaugc 17

<210> 1212
<211> 17
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<220>
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<400> 1212
acuggccagg gcgccug 17

<210> 1213
<211> 17
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<220>
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<400> 1213
gacuggccag ggcgccu 17

<210> 1214
<211> 17
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<220>
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<400> 1214
ccgcccagac gacuggc 17

<210> 1215

<211> 17
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<220>
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<400> 1215
gccgacccca ccuaccu 17

<210> 1216
<211> 17
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<220>
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<400> 1216
auggagagag gugagga 17

<210> 1217
<211> 17
<212> RNA
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<220>
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<400> 1217
gauggagaga ggugagg 17

<210> 1218
<211> 17
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<220>
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<400> 1218
agagauggag agaggug 17

<210> 1219
<211> 17
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<220>
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<400> 1219
gagagaugga gagaggu 17

<210> 1220
<211> 17
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<220>
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<400> 1220

cugagagaug gagagag 17

<210> 1221
<211> 17
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<220>
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<400> 1221
ggagucugag agaugga 17

<210> 1222
<211> 17
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<220>
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<400> 1222
ggggagucug agagaug 17

<210> 1223
<211> 17
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<220>
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<400> 1223
cuggggaguc ugagaga 17

<210> 1224
<211> 17
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<220>
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<400> 1224
ucuggggagu cugagag 17

<210> 1225
<211> 17
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<220>
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<400> 1225
gccugucugg ggagucu 17

<210> 1226
<211> 17
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<220>
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<400> 1226
gggccugucu ggggagu 17

<210> 1227
<211> 17
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<220>
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<400> 1227
guuccagggc cugucug 17

<210> 1228
<211> 17
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<220>
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<400> 1228
gguuccaggg ccugucu 17

<210> 1229
<211> 17
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<220>
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<400> 1229
ggguuccagg gccuguc 17

<210> 1230
<211> 17
<212> RNA
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<220>
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<400> 1230
gggguuccag ggccugu 17

<210> 1231
<211> 17
<212> RNA
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<220>
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<400> 1231
agaagguggg gggguuc 17

<210> 1232

<211> 17
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<220>
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<400> 1232
ggcuggggag aaggugg 17

<210> 1233
<211> 17
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<220>
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<400> 1233
gggcugggga gaaggug 17

<210> 1234
<211> 17
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<220>
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<400> 1234
agggcugggg agaaggu 17

<210> 1235
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<220>
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<400> 1235
cagggcuggg gagaagg 17

<210> 1236
<211> 17
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<220>
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<400> 1236
gcagggcugg ggagaag 17

<210> 1237
<211> 17
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ucaccacgag cagggcu 17

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ccuucgguca ccacgag 17

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<400> 1243
ugucccuuc ggucacc 17

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<400> 1244
uguuggagaa gcugcag 17

<210> 1245
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<400> 1245
agcucuccga uguguug 17

<210> 1246
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<400> 1246
gaagcucucc gaugugu 17

<210> 1247
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<400> 1247
cgaagcucuc cgaugug 17

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<400> 1248
ugcgguacca guuuagc 17

<210> 1249

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cuuguccguc ugguugc 17

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gcuuguccgu cugguug 17

<210> 1251
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gcuggcugcg guccucg 17

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ggcuggcugc gguccuc 17

<210> 1253
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gggcuggcug cgguccu 17

<210> 1254
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<220>
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<400> 1254

cgggcuggcu gcggucc 17

<210> 1255
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ggaagcggca guccugg 17

<210> 1256
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<400> 1256
ugggcaguug ugugaca 17

<210> 1257
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<220>
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<400> 1257
uugggcaguu gugugac 17

<210> 1258
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<220>
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<400> 1258
uguggaaguc acgcccg 17

<210> 1259
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<220>
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cccugaccac gcucaug 17

<210> 1260
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<400> 1260
gcccugacca cgcucau 17

<210> 1261
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<210> 1262
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ccagggagau ggcccca 17

<210> 1263
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cugcgccuug ggggcca 17

<210> 1264
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<220>
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ucugcgccuu gggggcc 17

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aucugcgccu ugggggc 17

<210> 1266

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cucuuugauc ugcgccu 17

<210> 1268
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<400> 1268
ucucuuugau cugcgcc 17

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<210> 1270
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<220>
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<210> 1271
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<220>
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<400> 1271

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<210> 1272
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<220>
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<400> 1272
aggugcggcc ucggaggccc 20

<210> 1273
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<220>
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<400> 1273
cggccucgga ggccccgggg 20

<210> 1274
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<220>
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<400> 1274
ggccucggag gccccggggc 20

<210> 1275
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<220>
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<400> 1275
cccugaccuu ugugcccuuc 20

<210> 1276
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<220>
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<400> 1276
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<220>
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<400> 1277
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<210> 1278
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<220>
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<400> 1278
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<210> 1279
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<220>
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<400> 1279
ugcccuucca gagagaaggg 20

<210> 1280
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<220>
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<400> 1280
aaacccuggu gguugguguc 20

<210> 1281
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<220>
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<400> 1281
uuggugucgu gggcggccug 20

<210> 1282
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<400> 1282
ggcagccugg ugcugcuagu 20

<210> 1283

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<220>
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<400> 1283
guccuggccg ucaucugcuc 20

<210> 1284
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<400> 1284
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<210> 1285
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<220>
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accccaagug uguuucucug 20

<210> 1286
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<400> 1286
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<210> 1287
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<220>
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<400> 1287
guguuucucu gcagggacaa 20

<210> 1288
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<220>
<223> Synthetic oligonucleotide: PDCD1-277

<400> 1288

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<210> 1289
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<220>
<223> Synthetic oligonucleotide: PDCD1-727

<400> 1289
ggcgcaccgg ccagccccug 20

<210> 1290
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<220>
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<400> 1290
ucccucuccc uuucuccuca 20

<210> 1291
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<220>
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<400> 1291
cucucccuuu cuccucaaag 20

<210> 1292
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<220>
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<210> 1293
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<220>
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<400> 1293
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<210> 1294
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<220>
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<400> 1294
cagccgugcc uguguucucu 20

<210> 1295
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<220>
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<400> 1295
gccuguguuc ucuguggacu 20

<210> 1296
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<220>
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<400> 1296
ccuguguucu cuguggacua 20

<210> 1297
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<220>
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<400> 1297
cuguguucuc uguggacuau 20

<210> 1298
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<220>
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<400> 1298
uguguucucu guggacuaug 20

<210> 1299
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<220>
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<400> 1299
ucucugugga cuauggggag 20

<210> 1300

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<220>
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<400> 1300
ggggagcugg auuuccagug 20

<210> 1301
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<220>
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<210> 1302
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<220>
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<400> 1302
agcuggauuu ccaguggcga 20

<210> 1303
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<220>
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<400> 1303
uccaguggcg agagaagacc 20

<210> 1304
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<220>
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<400> 1304
ccaguggcga gagaagaccc 20

<210> 1305
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<220>
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<400> 1305

gccccccgug cccugugucc 20

<210> 1306
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<220>
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<400> 1306
ugcccugugu cccugagcag 20

<210> 1307
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<220>
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<400> 1307
gcccuguguc ccugagcaga 20

<210> 1308
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<220>
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<400> 1308
ugccaccauu gucuuuccua 20

<210> 1309
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<220>
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<400> 1309
gccaccauug ucuuuccuag 20

<210> 1310
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<220>
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<400> 1310
ccauugucuu uccuagcgga 20

<210> 1311
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<220>
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<400> 1311
ggcaccucau cccccgcccg 20

<210> 1312
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<220>
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<400> 1312
gcaccucauc ccccgcccgc 20

<210> 1313
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<220>
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<400> 1313
aggggcucag cugacggccc 20

<210> 1314
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<220>
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<400> 1314
ggggcucagc ugacggcccu 20

<210> 1315
<211> 20
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<220>
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<400> 1315
gcccucggag ugcccagcca 20

<210> 1316
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<220>
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<400> 1316
gagugcccag ccacugaggc 20

<210> 1317

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<220>
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<400> 1317
gugcccagcc acugaggccu 20

<210> 1318
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<220>
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<400> 1318
ccagccacug aggccugagg 20

<210> 1319
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<220>
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<400> 1319
gggugacagg ugcggcc 17

<210> 1320
<211> 17
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<220>
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<400> 1320
ggugacaggu gcggccu 17

<210> 1321
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<220>
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<400> 1321
gugcggccuc ggaggcc 17

<210> 1322
<211> 17
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<220>
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<400> 1322

ugcggccucg gaggccc 17

<210> 1323
<211> 17
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<220>
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<400> 1323
ccucggaggc cccgggg 17

<210> 1324
<211> 17
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<220>
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<400> 1324
cucggaggcc ccggggc 17

<210> 1325
<211> 17
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<220>
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<400> 1325
ugaccuuugu gcccuuc 17

<210> 1326
<211> 17
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<220>
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<400> 1326
accuuugugc ccuucca 17

<210> 1327
<211> 17
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<220>
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<400> 1327
cuuugugccc uuccaga 17

<210> 1328
<211> 17
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<220>
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<400> 1328
ugugcccuuc cagagag 17

<210> 1329
<211> 17
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<220>
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<400> 1329
ccuuccagag agaaggg 17

<210> 1330
<211> 17
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<220>
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<400> 1330
cccugguggu ugguguc 17

<210> 1331
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<220>
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<400> 1331
gugucguggg cggccug 17

<210> 1332
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<220>
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<400> 1332
agccuggugc ugcuagu 17

<210> 1333
<211> 17
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<220>
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<400> 1333
cuggccguca ucugcuc 17

<210> 1334

<211> 17
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<220>
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<400> 1334
aucugcuccc gggccgc 17

<210> 1335
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<220>
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<400> 1335
ccaagugugu uucucug 17

<210> 1336
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<220>
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<400> 1336
caaguguguu ucucugc 17

<210> 1337
<211> 17
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<220>
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<400> 1337
uuucucugca gggacaa 17

<210> 1338
<211> 17
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<220>
<223> Synthetic oligonucleotide: PDCD1-327

<400> 1338
uucucugcag ggacaau 17

<210> 1339
<211> 17
<212> RNA
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<220>
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<400> 1339

gcaccggcca gccccug 17

<210> 1340
<211> 17
<212> RNA
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<220>
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<400> 1340
cucucccuuu cuccuca 17

<210> 1341
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-779

<400> 1341
ucccuuucuc cucaaag 17

<210> 1342
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-331

<400> 1342
cccuuucucc ucaaaga 17

<210> 1343
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-781

<400> 1343
cuuucuccuc aaagaag 17

<210> 1344
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-782

<400> 1344
ccgugccugu guucucu 17

<210> 1345
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-783

<400> 1345
uguguucucu guggacu 17

<210> 1346
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-334

<400> 1346
guguucucug uggacua 17

<210> 1347
<211> 17
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<220>
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<400> 1347
uguucucugu ggacuau 17

<210> 1348
<211> 17
<212> RNA
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<220>
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<400> 1348
guucucugug gacuaug 17

<210> 1349
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1349
cuguggacua uggggag 17

<210> 1350
<211> 17
<212> RNA
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<220>
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<400> 1350
gagcuggauu uccagug 17

<210> 1351

<211> 17
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<220>
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<400> 1351
gcuggauuuc caguggc 17

<210> 1352
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-790

<400> 1352
uggauuucca guggcga 17

<210> 1353
<211> 17
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<220>
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<400> 1353
aguggcgaga gaagacc 17

<210> 1354
<211> 17
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<220>
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<400> 1354
guggcgagag aagaccc 17

<210> 1355
<211> 17
<212> RNA
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<220>
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<400> 1355
ccccgugccc ugugucc 17

<210> 1356
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-794

<400> 1356

ccugugucccc ugagcag 17

<210> 1357
<211> 17
<212> RNA
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<220>
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<400> 1357
cugugucccu gagcaga 17

<210> 1358
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-796

<400> 1358
caccauuguc uuuccua 17

<210> 1359
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1359
accauugucu uuccuag 17

<210> 1360
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-798

<400> 1360
uugucuuucc uagcgga 17

<210> 1361
<211> 17
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<220>
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<400> 1361
accucauccc ccgcccg 17

<210> 1362
<211> 17
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ggcucagcug acggccc 17

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gcucagcuga cggcccu 17

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ugcccagcca cugaggc 17

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<400> 1367
cccagccacu gaggccu 17

<210> 1368

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gccacugagg ccugagg 17

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<400> 1369
ccgaggccgc accugucacc 20

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agggcacaaa ggucaggggu 20

<210> 1371
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ucuggaaggg cacaaagguc 20

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<400> 1373

acuucugccc uucucucugg 20

<210> 1374
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ggcacuucug cccuucucuc 20

<210> 1375
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<210> 1376
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ggccugggug aggggcuggg 20

<210> 1378
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<220>
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ggcuggccug ggugaggggc 20

<210> 1379
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<220>
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<210> 1380
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<220>
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cuggccggcu ggccugggug 20

<210> 1381
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acuggccggc uggccugggu 20

<210> 1382
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gaacuggccg gcuggccugg 20

<210> 1383
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<210> 1384
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<220>
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cgacaccaac caccaggguu 20

<210> 1385

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acgacaccaa ccaccagggu 20

<210> 1386
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ccgcccacga caccaaccac 20

<210> 1387
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<220>
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<210> 1388
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<220>
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gacguuaccu cgugcggccc 20

<210> 1389
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<220>
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<210> 1390
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<220>
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augacguuac cucgugcggc 20

<210> 1391
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<220>
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ucccugcaga gaaacacacu 20

<210> 1392
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<220>
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gucccugcag agaaacacac 20

<210> 1393
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<220>
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<210> 1394
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<220>
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<210> 1395
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<220>
<223> Synthetic oligonucleotide: PDCD1-397

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ggaaaagagu gagacucacc 20

<210> 1396
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<220>
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aggaaaagag ugagacucac 20

<210> 1397
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<220>
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<400> 1397
ucuuugagga gaaagggaga 20

<210> 1398
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<220>
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<400> 1398
uucuuugagg agaaagggag 20

<210> 1399
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<220>
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<400> 1399
cuucuuugag gagaaaggga 20

<210> 1400
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<220>
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<400> 1400
uccuucuuug aggagaaagg 20

<210> 1401
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<220>
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<400> 1401
ccuccuucuu ugaggagaaa 20

<210> 1402

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<220>
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<400> 1402
uccuccuucu uugaggagaa 20

<210> 1403
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<220>
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<400> 1403
guccuccuuc uuugaggaga 20

<210> 1404
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<220>
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<400> 1404
agggguccuc cuucuuugag 20

<210> 1405
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<220>
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<210> 1406
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<220>
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<210> 1407
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ggcugagggg uccuccuucu 20

<210> 1408
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agagaacaca ggcacggcug 20

<210> 1409
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<220>
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cagagaacac aggcacggcu 20

<210> 1410
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<220>
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<210> 1411
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<220>
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<400> 1411
ccagcucccc auaguccaca 20

<210> 1412
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<220>
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<400> 1412
auccagcucc ccauagucca 20

<210> 1413
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<400> 1413
ccgggucuu cucucgccac 20

<210> 1414
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<400> 1414
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<210> 1415
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<220>
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<210> 1416
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<220>
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<210> 1417
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<210> 1418
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<210> 1419

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<220>
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<210> 1420
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<220>
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<210> 1421
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<220>
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acuccgucug cucagggaca 20

<210> 1422
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<210> 1423
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<210> 1424
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ggaugaggug cccauuccgc 20

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ugagccccug cgggcggggg 20

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<210> 1429
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<210> 1430
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<220>
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ggcacuccga gggccgucag 20

<210> 1433
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<220>
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ccucaguggc ugggcacucc 20

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<220>
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ggccucagug gcugggcacu 20

<210> 1435
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<220>
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<400> 1435
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ggaagccggu cagaggggcc 20

<210> 1437
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<220>
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uggccaagga agccggucag 20

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guggccaagg aagccgguca 20

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aggccgcacc ugucacc 17

<210> 1443
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gcacaaaggu caggggu 17

<210> 1444
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<220>
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ggaagggcac aaagguc 17

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<220>
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<400> 1445
uggaagggca caaaggu 17

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<220>
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<400> 1446
ucugcccuuc ucucugg 17

<210> 1447
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<220>
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<400> 1447
acuucugccc uucucuc 17

<210> 1448
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<220>
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<400> 1448
cacuucugcc cuucucu 17

<210> 1449
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<220>
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<400> 1449
aggggcuggg gugggcu 17

<210> 1450
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<220>
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<400> 1450
cugggugagg ggcuggg 17

<210> 1451
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<220>
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<400> 1451
uggccugggu gaggggc 17

<210> 1452
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<220>
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<400> 1452
cuggccuggg ugagggg 17

<210> 1453

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<220>
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<400> 1453
gccggcuggc cugggug 17

<210> 1454
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<220>
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ggccggcugg ccugggu 17

<210> 1455
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<220>
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<400> 1455
cuggccggcu ggccugg 17

<210> 1456
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<220>
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<400> 1456
ggaacuggcc ggcuggc 17

<210> 1457
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<220>
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<400> 1457
caccaaccac caggguu 17

<210> 1458
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<220>
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<400> 1458

acaccaacca ccagggu 17

<210> 1459
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<220>
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<400> 1459
cccacgacac caaccac 17

<210> 1460
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<220>
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<400> 1460
cgggagcaga ugacggc 17

<210> 1461
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<220>
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<400> 1461
guuaccucgu gcggccc 17

<210> 1462
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<220>
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<400> 1462
cguuaccucg ugcggcc 17

<210> 1463
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<220>
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<400> 1463
acguuaccuc gugcggc 17

<210> 1464
<211> 17
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<220>
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<400> 1464
cugcagagaa acacacu 17

<210> 1465
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<220>
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<400> 1465
ccugcagaga aacacac 17

<210> 1466
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<220>
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<400> 1466
cuccuauugu cccugca 17

<210> 1467
<211> 17
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<220>
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<400> 1467
ggcuccuauu gucccug 17

<210> 1468
<211> 17
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<220>
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<400> 1468
aaagagugag acucacc 17

<210> 1469
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<220>
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<400> 1469
aaaagaguga gacucac 17

<210> 1470

<211> 17
<212> RNA
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<220>
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<400> 1470
uugaggagaa agggaga 17

<210> 1471
<211> 17
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<220>
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<400> 1471
uuugaggaga aagggag 17

<210> 1472
<211> 17
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<220>
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<400> 1472
cuuugaggag aaaggga 17

<210> 1473
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<220>
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<400> 1473
uucuuugagg agaaagg 17

<210> 1474
<211> 17
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<220>
<223> Synthetic oligonucleotide: PDCD1-487

<400> 1474
ccuucuuuga ggagaaa 17

<210> 1475
<211> 17
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<220>
<223> Synthetic oligonucleotide: PDCD1-488

<400> 1475

uccuucuuug aggagaa 17

<210> 1476
<211> 17
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<220>
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<400> 1476
cuccuucuuu gaggaga 17

<210> 1477
<211> 17
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<220>
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<400> 1477
gguccuccuu cuuugag 17

<210> 1478
<211> 17
<212> RNA
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<220>
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<400> 1478
gggguccucc uucuuug 17

<210> 1479
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-917

<400> 1479
aggguccuc cuucuuu 17

<210> 1480
<211> 17
<212> RNA
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<220>
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<400> 1480
ugaggggucc uccuucu 17

<210> 1481
<211> 17
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<220>
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<400> 1481
gaacacaggc acggcug 17

<210> 1482
<211> 17
<212> RNA
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<220>
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<400> 1482
agaacacagg cacggcu 17

<210> 1483
<211> 17
<212> RNA
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<220>
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<400> 1483
agagaacaca ggcacgg 17

<210> 1484
<211> 17
<212> RNA
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<220>
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<400> 1484
gcucccaua guccaca 17

<210> 1485
<211> 17
<212> RNA
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<220>
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<400> 1485
cagcucccca uagucca 17

<210> 1486
<211> 17
<212> RNA
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ggggucuucu cucgcca 17

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<210> 1490
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cucagggaca cagggca 17

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<210> 1504

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cagaacacug guggcca 17

<210> 1514
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gcagaacacu gguggcc 17

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<210> 1516
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<210> 1517
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<210> 1518
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<210> 1519
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<210> 1520
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<210> 1521

<211> 17
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<210> 1522
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gggcagcucg aacuccu 17

<210> 1523
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gggcgggaua uggaaag 17

<210> 1524
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ccccaaggac cggcugagag 20

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aggcgcccug gccagucguc 20

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<210> 1537
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<210> 1538

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uguagaauga cgggucaggc 20

<210> 1540
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ccaaggaccg gcugaga 17

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<400> 1551
cgcccagacg acuggcc 17

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cuggccaggg cgccugu 17

<210> 1553
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cgcccuggcc agucguc 17

<210> 1554
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cugggcggug cuacaac 17

<210> 1555

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ugggcggugc uacaacu 17

<210> 1556
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<400> 1556
cggugcuaca acugggc 17

<210> 1557
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caacugggcu ggcggcc 17

<210> 1558
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cggccaggau gguucuu 17

<210> 1559
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acuccugggu uccucuc 17

<210> 1560
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<400> 1560

uguuucugua gaaugac 17

<210> 1561
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<220>
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cuguagaaug acggguc 17

<210> 1562
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agaaugacgg gucaggc 17

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accccaaacc uuggccg 17

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cccacggggu agggcgu 17

<210> 1565
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ugucacucuc gcccacg 17

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ucucgcccac guggaug 17

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gacuccccac ggccaagguu 20

<210> 1569
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gaccggcuga gaggggacag 20

<210> 1570
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<400> 1570
gacagagguc cugccugccc 20

<210> 1571
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gccugcccag gagcaaagag 20

<210> 1572

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gcaaagaggg gacuugggcc 20

<210> 1573
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<220>
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<400> 1573
gaggggacuu gggccagggg 20

<210> 1574
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<220>
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<400> 1574
ggaggaguug gggcccagag 20

<210> 1575
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<220>
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<400> 1575
gcccaaagcc acacagcuca 20

<210> 1576
<211> 20
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<400> 1576
gccacacagc ucaggguaag 20

<210> 1577
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<400> 1577

gcagagcugg gggccaaggc 20

<210> 1578
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<400> 1578
gaccugccag ggacugaggg 20

<210> 1579
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<220>
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<400> 1579
ggaaggcccc uccagacccc 20

<210> 1580
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<220>
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<400> 1580
ggcgcccugg ccagucgucu 20

<210> 1581
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<220>
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<400> 1581
gcccuggcca gucgucuggg 20

<210> 1582
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<400> 1582
ggccaggaug guucuuaggu 20

<210> 1583
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<220>
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ggaugguucu uagguaggug 20

<210> 1584
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<220>
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gguucuuagg uagguggggu 20

<210> 1585
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<220>
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gguagguggg gucggcgguc 20

<210> 1586
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ggucaggugu cccagagcca 20

<210> 1587
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gucagguguc ccagagccag 20

<210> 1588
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<220>
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<400> 1588
gugucccaga gccagggguc 20

<210> 1589

<211> 20
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<220>
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gaccuuccac ccucaguccc 20

<210> 1590
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<220>
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<400> 1590
ggggggugcu gaggcgggcc 20

<210> 1591
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<220>
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gggccuggcc cuggcagccc 20

<210> 1592
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<220>
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<400> 1592
ggccuggccc uggcagccca 20

<210> 1593
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<220>
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<400> 1593
gccuggcccu ggcagcccag 20

<210> 1594
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<220>
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<400> 1594

gcccaggggu cccggagcga 20

<210> 1595
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<220>
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<400> 1595
ggguccccgga gcgagggguc 20

<210> 1596
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<220>
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<400> 1596
gaccuuucac ucucaguccc 20

<210> 1597
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<220>
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<400> 1597
gccccuuacc cugagcugug 20

<210> 1598
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<220>
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<400> 1598
gaacuccugg guuccucucu 20

<210> 1599
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<220>
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gaccucuguc cccucucagc 20

<210> 1600
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gucccucuc agccgguccu 20

<210> 1601
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gaaccccaaa ccuuggccgu 20

<210> 1602
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<220>
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<400> 1602
gccgugggga gucugcgugg 20

<210> 1603
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gagagugaca gaggcagugc 20

<210> 1604
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gagugacaga ggcagugcug 20

<210> 1605
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<220>
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<400> 1605
gacagaggca gugcuggggg 20

<210> 1606

<211> 20
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<220>
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gaggcagugc ugggggagga 20

<210> 1607
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<400> 1607
gugcuggggg aggaggggug 20

<210> 1608
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<220>
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gggggaggag gggugaggag 20

<210> 1609
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<400> 1609
ggggaggagg ggugaggagg 20

<210> 1610
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ggcggaggug agcggaa 17

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ggaaacuguc ccagguc 17

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<210> 1699
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gugacagagg cagugcu 17

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gacagaggca gugcugg 17

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ggaggagggg ugaggag 17

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gaggaggggu gaggagg 17

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gaggaggggg uaggacu 17

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gggguaggac uggggag 17

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ggacugggga gagggug 17

<210> 1711
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<210> 1714
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ggagaugggg aggaggu 17

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<400> 1716
gggaggaggu gggcccg 17

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<400> 1717
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<210> 1718
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ggggucuccc cagcuca 17

<210> 1719
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<400> 1719
gucucugcuc acugcug 17

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<400> 1720
gccccuccug aggcugc 17

<210> 1721
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ggcugccggg ugggggc 17

<210> 1722
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<400> 1722
ggccgggccu cccugcc 17

<210> 1723
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<400> 1723
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<210> 1726
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<210> 1727
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<400> 1727
gaaccugagc ccagagg 17

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<400> 1728
ggccacccac cuucccc 17

<210> 1729
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gggaggcccg gccccca 17

<210> 1730
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<400> 1730

ggcccccagg gagaugg 17

<210> 1731
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<400> 1731
gcccccaggg agauggg 17

<210> 1732
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<400> 1732
gggagauggg ggggaug 17

<210> 1733
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<210> 1762
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<210> 1764
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<210> 1766
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<210> 1767
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<210> 1768
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<220>
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<210> 1769
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<220>
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<210> 1773
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<210> 1774
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<210> 1775
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<210> 1776

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<210> 1779
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<220>
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cagcaccccc cgaccugcca 20

<210> 1780
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<210> 1781
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<210> 1782
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<210> 1783
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<210> 1784
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<220>
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<210> 1785
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<220>
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<210> 1786
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<210> 1787
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<210> 1788
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<210> 1789
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<400> 1789
cagcaccccc cgaccugcca 20

<210> 1790
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<210> 1791
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<210> 1792
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<210> 1793

<211> 20
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<220>
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ucccuccaga ccccuggcuc 20

<210> 1794
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<210> 1795
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<210> 1796
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<210> 1797
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<210> 1798
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caggaugguu cuuagguagg 20

<210> 1799
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<210> 1800
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ucuuagguag gugggucgg 20

<210> 1801
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<210> 1802
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<210> 1810

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aggucggggg gugcugaggc 20

<210> 1813
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<400> 1813
ugcugaggcg ggccuggccc 20

<210> 1814
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<400> 1814
cccuggcagc ccaggggucc 20

<210> 1815
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<400> 1815

agcccagggg ucccggagcg 20

<210> 1816
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<400> 1816
cccagggguc ccggagcgag 20

<210> 1817
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<400> 1817
ucccggagcg aggggucugg 20

<210> 1818
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<400> 1818
cccggagcga ggggucugga 20

<210> 1819
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<220>
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<400> 1819
uuucacucuc agucccuggc 20

<210> 1820
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<400> 1820
acucucaguc ccuggcaggu 20

<210> 1821
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<400> 1821
cucucagucc cuggcagguc 20

<210> 1822
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<400> 1822
ucucaguccc uggcaggucg 20

<210> 1823
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<210> 1824
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<400> 1824
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<210> 1825
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uggcaggucg gggggugcug 20

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<210> 1827

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<400> 1827
ugcuguggca ggcccagccu 20

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<400> 1828
uacccugagc uguguggcuu 20

<210> 1829
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<220>
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<400> 1829
acccugagcu guguggcuuu 20

<210> 1830
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cuuugggcag cucgaacucc 20

<210> 1831
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cugggcccca acuccucccc 20

<210> 1832
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<400> 1832

ccaagucccc ucuuugcucc 20

<210> 1833
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<400> 1833
caaguccccu cuuugcuccu 20

<210> 1834
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<400> 1834
uccccucuuu gcuccugggc 20

<210> 1835
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<220>
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<210> 1836
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uccccucuca gccgguccuu 20

<210> 1837
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<220>
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<400> 1837
ccccucucag ccgguccuug 20

<210> 1838
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<220>
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ugcguguuuc uguagaauga 20

<210> 1839
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<400> 1839
cuggccagaa ccccaaaccu 20

<210> 1840
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aaccccaaac cuuggccgug 20

<210> 1841
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<220>
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<400> 1841
uuggccgugg ggagucugcg 20

<210> 1842
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<220>
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<400> 1842
ugccgccuuc uccacugcuc 20

<210> 1843
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<220>
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<210> 1844

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cuucuccacu gcucaggcgg 20

<210> 1845
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acugcucagg cggaggugag 20

<210> 1846
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cucaggcgga ggugagcgga 20

<210> 1847
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<400> 1847
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<210> 1848
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<220>
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agcggaaggg aaacuguccc 20

<210> 1849
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<400> 1849

aagggaaacu gucccagguc 20

<210> 1850
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<400> 1850
acugucccag gucagguuga 20

<210> 1851
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cugucccagg ucagguugaa 20

<210> 1852
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ucccagguca gguugaaggg 20

<210> 1853
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<220>
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cccaggucag guugaaggga 20

<210> 1854
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<220>
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<400> 1854
ccucuuccuc cacauccacg 20

<210> 1855
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2241

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cucuuccucc acauccacgu 20

<210> 1856
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<400> 1856
cacgugggcg agagugacag 20

<210> 1857
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<400> 1857
agagugacag aggcagugcu 20

<210> 1858
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<400> 1858
agugacagag gcagugcugg 20

<210> 1859
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<400> 1859
agaggcagug cuggggagg 20

<210> 1860
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<400> 1860
aggcagugcu gggggaggag 20

<210> 1861

<211> 20
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<220>
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cugggggagg aggggugagg 20

<210> 1862
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<400> 1862
ugggggagga ggggugagga 20

<210> 1863
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<220>
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<400> 1863
aggaggggug aggagggggu 20

<210> 1864
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<212> RNA
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<400> 1864
aggggguagg acuggggaga 20

<210> 1865
<211> 20
<212> RNA
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<220>
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<400> 1865
uaggacuggg gagagggugg 20

<210> 1866
<211> 20
<212> RNA
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<220>
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<400> 1866

acuggggaga ggguggggga 20

<210> 1867
<211> 20
<212> RNA
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<220>
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<400> 1867
agggagagag agacagagac 20

<210> 1868
<211> 20
<212> RNA
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<220>
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<400> 1868
agacagagac agggagacag 20

<210> 1869
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<212> RNA
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<400> 1869
agacagggag acagaggaga 20

<210> 1870
<211> 20
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<220>
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acagggagac agaggagaug 20

<210> 1871
<211> 20
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<220>
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agacagagga gaugggagg 20

<210> 1872
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cagaggagau ggggaggagg 20

<210> 1873
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<220>
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<400> 1873
agaggagaug gggaggaggu 20

<210> 1874
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<220>
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auggggagga ggugggcccg 20

<210> 1875
<211> 20
<212> RNA
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<220>
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<400> 1875
cccccacgcc cuaccccgug 20

<210> 1876
<211> 20
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<220>
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ccccacgccc uaccccgugg 20

<210> 1877
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cguggggguc uccccagcuc 20

<210> 1878

<211> 20
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<210> 1879
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<220>
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<400> 1879
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<210> 1880
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<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2288

<400> 1880
cugccccucc ugaggcugcc 20

<210> 1881
<211> 20
<212> RNA
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<220>
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<400> 1881
ccccuccuga ggcugccggg 20

<210> 1882
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<212> RNA
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<220>
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<400> 1882
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<210> 1883
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<400> 1883

ccuccugagg cugccgggug 20

<210> 1884
<211> 20
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<220>
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cuccugaggc ugccgggugg 20

<210> 1885
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<212> RNA
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<220>
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<210> 1886
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-2294

<400> 1886
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<210> 1887
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2295

<400> 1887
cccaucccccc ccaucucccu 20

<210> 1888
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-2296

<400> 1888
ccaucccccc caucucccug 20

<210> 1889
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-2297

<400> 1889
caucccccccc aucucccugg 20

<210> 1890
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2298

<400> 1890
ccccccaucu cccuggggggc 20

<210> 1891
<211> 20
<212> RNA
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<220>
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<400> 1891
cccccaucuc ccuggggggcc 20

<210> 1892
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1892
cgggccuccc ugccugggga 20

<210> 1893
<211> 20
<212> RNA
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<220>
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<400> 1893
ccucccugcc uggggaaggu 20

<210> 1894
<211> 20
<212> RNA
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<220>
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<400> 1894
cccugccugg ggaaggugggg 20

<210> 1895

<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2310

<400> 1895
ccccucuggg cucagguucc 20

<210> 1896
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1896
cccucugggc ucagguuccu 20

<210> 1897
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2313

<400> 1897
cccaggaacc ugagcccaga 20

<210> 1898
<211> 20
<212> RNA
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<220>
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<400> 1898
ccaggaaccu gagcccagag 20

<210> 1899
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<400> 1899
caggaaccug agcccagagg 20

<210> 1900
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<220>
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<400> 1900

ccacccaccu uccccaggca 20

<210> 1901
<211> 20
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<220>
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<400> 1901
cccaccuucc ccaggcaggg 20

<210> 1902
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<400> 1902
cuuccccagg cagggaggcc 20

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<400> 1903
aggcccggcc cccagggaga 20

<210> 1904
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<400> 1904
cccggccccc agggagaugg 20

<210> 1905
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<400> 1905
ccggccccca gggagauggg 20

<210> 1906
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<400> 1906
cggcccccag ggagaugggg 20

<210> 1907
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<400> 1907
ccccagggag augggggggа 20

<210> 1908
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<220>
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<400> 1908
cccagggaga ugggggggau 20

<210> 1909
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<400> 1909
ccagggagau ggggggggaug 20

<210> 1910
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cagggagaug ggggggaugg 20

<210> 1911
<211> 20
<212> RNA
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<400> 1911
ugcccccacc cggcagccuc 20

<210> 1912

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<220>
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<400> 1912
ccccacccgg cagccucagg 20

<210> 1913
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<220>
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<400> 1913
cccacccggc agccucagga 20

<210> 1914
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<212> RNA
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<220>
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<400> 1914
ccacccggca gccucaggag 20

<210> 1915
<211> 20
<212> RNA
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<220>
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<400> 1915
cagccucagg aggggcagcu 20

<210> 1916
<211> 20
<212> RNA
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<400> 1916
agccucagga ggggcagcuc 20

<210> 1917
<211> 20
<212> RNA
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<220>
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<400> 1917

cucaggaggg gcagcucggg 20

<210> 1918
<211> 20
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<220>
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<400> 1918
ucaggagggg cagcucgggc 20

<210> 1919
<211> 20
<212> RNA
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<220>
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agcagugagc agagacacag 20

<210> 1920
<211> 20
<212> RNA
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<220>
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agugagcaga gacacagagg 20

<210> 1921
<211> 20
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<220>
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<400> 1921
agcagagaca cagaggagga 20

<210> 1922
<211> 20
<212> RNA
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<220>
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<400> 1922
cagagacaca gaggaggaag 20

<210> 1923
<211> 20
<212> RNA
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<220>
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<400> 1923
aggaggaagg ggcccugagc 20

<210> 1924
<211> 20
<212> RNA
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<220>
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<400> 1924
cugagcuggg gagaccccca 20

<210> 1925
<211> 20
<212> RNA
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<220>
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<400> 1925
ugagcugggg agacccccac 20

<210> 1926
<211> 20
<212> RNA
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<220>
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<400> 1926
uggggagacc cccacggggu 20

<210> 1927
<211> 20
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<220>
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<400> 1927
cccccacggg guagggcgug 20

<210> 1928
<211> 20
<212> RNA
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<220>
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<400> 1928
ccccacgggg uagggcgugg 20

<210> 1929

<211> 20
<212> RNA
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<220>
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<400> 1929
ucucgcccac guggaugugg 20

<210> 1930
<211> 20
<212> RNA
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<220>
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<400> 1930
ccacguggau guggaggaag 20

<210> 1931
<211> 20
<212> RNA
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<220>
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<400> 1931
cacguggaug uggaggaaga 20

<210> 1932
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<212> RNA
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<220>
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<400> 1932
acguggaugu ggaggaagag 20

<210> 1933
<211> 20
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<220>
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<400> 1933
cguggaugug gaggaagagg 20

<210> 1934
<211> 20
<212> RNA
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<220>
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<400> 1934

aggaagaggg ggcgggagca 20

<210> 1935
<211> 20
<212> RNA
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<220>
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aggggggcggg agcaaggggc 20

<210> 1936
<211> 20
<212> RNA
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<220>
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<400> 1936
acccucccuu caaccugacc 20

<210> 1937
<211> 20
<212> RNA
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<220>
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cccucccuuc aaccugaccu 20

<210> 1938
<211> 20
<212> RNA
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<220>
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<400> 1938
cuccgccuga gcaguggaga 20

<210> 1939
<211> 20
<212> RNA
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<220>
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<400> 1939
cgccugagca guggagaagg 20

<210> 1940
<211> 20
<212> RNA
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<220>
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<400> 1940
caguggagaa ggcggcacuc 20

<210> 1941
<211> 20
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<400> 1941
uggagaaggc ggcacucugg 20

<210> 1942
<211> 20
<212> RNA
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<220>
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<400> 1942
cacucuggug gggcugcucc 20

<210> 1943
<211> 17
<212> RNA
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<220>
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<400> 1943
cagacucccc acggcca 17

<210> 1944
<211> 17
<212> RNA
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<220>
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<400> 1944
uccccacggc caagguu 17

<210> 1945
<211> 17
<212> RNA
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<220>
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<400> 1945
agaaacacgc agcccca 17

<210> 1946

<211> 17
<212> RNA
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<220>
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<400> 1946
cacgcagccc caaggac 17

<210> 1947
<211> 17
<212> RNA
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<220>
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<400> 1947
cccaaggacc ggcugag 17

<210> 1948
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1948
cggcugagag gggacag 17

<210> 1949
<211> 17
<212> RNA
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<220>
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<400> 1949
agagguccug ccugccc 17

<210> 1950
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1950
ccugcccagg agcaaag 17

<210> 1951
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1951

cugcccagga gcaaaga 17

<210> 1952
<211> 17
<212> RNA
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<220>
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<400> 1952
ugcccaggag caaagag 17

<210> 1953
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1953
aagaggggac uugggcc 17

<210> 1954
<211> 17
<212> RNA
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<220>
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<400> 1954
agaggggacu ugggcca 17

<210> 1955
<211> 17
<212> RNA
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<220>
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<400> 1955
ugggccaggg gaggagu 17

<210> 1956
<211> 17
<212> RNA
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<220>
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<400> 1956
ccaaagccac acagcuc 17

<210> 1957
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<212> RNA
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<220>
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<400> 1957
caaagccaca cagcuca 17

<210> 1958
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2419

<400> 1958
ccacacagcu cagggua 17

<210> 1959
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2420

<400> 1959
cacacagcuc aggguaa 17

<210> 1960
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2421

<400> 1960
acacagcuca ggguaag 17

<210> 1961
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2422

<400> 1961
aggguaaggg gcagagc 17

<210> 1962
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2428

<400> 1962
agcugggggc caaggcu 17

<210> 1963

<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2430

<400> 1963
cacccccga ccugcca 17

<210> 1964
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2431

<400> 1964
cagggacuga gagugaa 17

<210> 1965
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-2432

<400> 1965
cuccagaccc cucgcuc 17

<210> 1966
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-2433

<400> 1966
uccagacccc ucgcucc 17

<210> 1967
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-2434

<400> 1967
ccucgcuccg ggacccc 17

<210> 1968
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2435

<400> 1968

cucgcuccgg gaccccu 17

<210> 1969
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2438

<400> 1969
ccugggcugc cagggcc 17

<210> 1970
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2430

<400> 1970
caccccccga ccugcca 17

<210> 1971
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2441

<400> 1971
cgaccugcca gggacug 17

<210> 1972
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
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<400> 1972
cugccaggga cugaggg 17

<210> 1973
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2444

<400> 1973
cagggacuga gggugga 17

<210> 1974
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-2445

<400> 1974
aggucccucc agacccc 17

<210> 1975
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-2446

<400> 1975
cuccagaccc cuggcuc 17

<210> 1976
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2447

<400> 1976
uccagacccc uggcucu 17

<210> 1977
<211> 17
<212> RNA
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<220>
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<400> 1977
acuggccagg gcgccug 17

<210> 1978
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-233

<400> 1978
cuggccaguc gucuggg 17

<210> 1979
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-237

<400> 1979
ugcuacaacu gggcugg 17

<210> 1980

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

<220>
<223> Synthetic oligonucleotide: PDCD1-239

<400> 1980
ugggcuggcg gccagga 17

<210> 1981
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-241

<400> 1981
caggaugguu cuuaggu 17

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<210> 2157
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agugaggacc aaggaugccu 20

<210> 2196
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<210> 2197
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<210> 2198
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<210> 2209
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<210> 2213
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<210> 2214
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<210> 2216
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<210> 2217
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<210> 2218

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<210> 2219
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<210> 2220
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<210> 2225
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<210> 2226
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<210> 2227
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<210> 2228
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<210> 2229
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<210> 2230
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<220>
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guucaggggg uccagugccu 20

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<210> 2254
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<400> 2254
uauuacagcg aauggaaaac 20

<210> 2255
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<220>
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<210> 2256
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<220>
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<210> 2262
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<210> 2263
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gugaaaccac ccucccc 17

<210> 2264
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<210> 2265
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<220>
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caggccuugg caucccc 17

<210> 2266
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<400> 2266
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<210> 2267
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caucccccagg ugcaggc 17

<210> 2268
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cccaggugca ggcuggc 17

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ggcuggcugg gcacaga 17

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<210> 2279
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<210> 2281
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gucacagugu acacaga 17

<210> 2282
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uguacacaga gggccca 17

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ucccucucuc cucgauc 17

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cccucucucc ucgaucc 17

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<210> 2291
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aaggccuccc ccacgga 17

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cacggauggu cugaaca 17

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auggucugaa cagggcu 17

<210> 2297
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uggucugaac agggcuc 17

<210> 2298
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ggucugaaca gggcucg 17

<210> 2299
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gggcucgggg agagccc 17

<210> 2300
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gggagagccc uggaauc 17

<210> 2301
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ggagagcccu ggaaucu 17

<210> 2302
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<220>
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aaucugggca gagaccc 17

<210> 2303

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cugggcagag acccagg 17

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ugggcagaga cccaggc 17

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acaaucccca cccagga 17

<210> 2308
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<400> 2308

ccacccagga gggaucc 17

<210> 2309
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acuguccuca cucgaac 17

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cucgaacagg uacacuu 17

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<210> 2312
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ccaagguuag ucccaca 17

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<210> 2314
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aagguuaguc ccacaug 17

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gggcucaucc cauccuu 17

<210> 2316
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uuaggaaaac ucgagug 17

<210> 2317
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aacucgagug aggacca 17

<210> 2318
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<400> 2318
ugaggaccaa ggaugcc 17

<210> 2319
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gaggaccaag gaugccu 17

<210> 2320

<211> 17
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<210> 2321
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<400> 2321
ccccacuccc auucugu 17

<210> 2322
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cauucugucg gagccuc 17

<210> 2323
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auucugucgg agccucu 17

<210> 2324
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agccucuggg agccucc 17

<210> 2325
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<400> 2325

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<210> 2326
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<210> 2327
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<220>
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agccucugcc ccugcug 17

<210> 2328
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<220>
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<400> 2328
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<210> 2329
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cugccccugc ugggggc 17

<210> 2330
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ugcuggggggc aggugcc 17

<210> 2331
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<220>
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<220>
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<210> 2333
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<210> 2334
<211> 17
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<220>
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<400> 2334
cccaucccccc uucgcug 17

<210> 2335
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<210> 2336
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<400> 2336
ugaaugacaa cugucca 17

<210> 2337

<211> 17
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aacuguccau ggcuaau 17

<210> 2338
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ucaaagcuuc caccuug 17

<210> 2339
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<400> 2339
agcuuccacc uugugga 17

<210> 2340
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<220>
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<400> 2340
uggauggccu cacacca 17

<210> 2341
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<220>
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<400> 2341
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<210> 2342
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<220>
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<400> 2342

gccugcaaca gccugac 17

<210> 2343
<211> 17
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<220>
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<400> 2343
ccugcaacag ccugacg 17

<210> 2344
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<400> 2344
cugcaacagc cugacgg 17

<210> 2345
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<220>
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<400> 2345
ugcaacagcc ugacggg 17

<210> 2346
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<220>
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<400> 2346
gcaacagccu gacgggg 17

<210> 2347
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<220>
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<400> 2347
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<210> 2348
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<220>
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<400> 2348
agccugacgg gggggcu 17

<210> 2349
<211> 17
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<220>
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<400> 2349
gccugacggg ggggcug 17

<210> 2350
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<400> 2350
ugacgggggg gcugggg 17

<210> 2351
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<220>
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<400> 2351
cgggggggcu ggggcgg 17

<210> 2352
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<220>
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ggggcugggg cgguggc 17

<210> 2353
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<220>
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<400> 2353
gggcuggggc gguggca 17

<210> 2354

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<210> 2381
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<220>
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<210> 2387
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<210> 2388

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<210> 2389
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<210> 2394
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<210> 2404
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<210> 2409
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<210> 2422

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<210> 2423
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aggacaguuc uucugucucc 20

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aaaguguacc uguucgagug 20

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acgucaaagu uuagaugagc 20

<210> 2426
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gccccaugug ggacuaaccu 20

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ggaugggaug agccccaugu 20

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acucgaguuu uccuaaggau 20

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uccucacucg aguuuuccua 20

<210> 2432
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<210> 2433
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gcuccgacag aaugggagug 20

<210> 2434
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aggcuccgac agaaugggag 20

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cccagaggcu ccgacagaau 20

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ucccagaggc uccgacagaa 20

<210> 2438
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ggcagccggg aggcucccag 20

<210> 2439

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agaggcugug ggcagccggg 20

<210> 2440
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<210> 2441
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<210> 2442
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ccagcagggg cagaggcugu 20

<210> 2443
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<210> 2447
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<210> 2448
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<210> 2449
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<210> 2452
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<220>
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<210> 2453
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<210> 2454
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<220>
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ugugccccag cgaaggggga 20

<210> 2455
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<210> 2456

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<210> 2457
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<220>
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<210> 2458
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<220>
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ggucaccugu gccccagcga 20

<210> 2459
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<220>
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uggacaguug ucauucagua 20

<210> 2460
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auggacaguu gucauucagu 20

<210> 2461
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gagggggagc cgauuagcca 20

<210> 2462
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acaaggugga agcuuugagg 20

<210> 2463
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cacaaggugg aagcuuugag 20

<210> 2464
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ccacaaggug gaagcuuuga 20

<210> 2465
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<210> 2466
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<210> 2467
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<210> 2468
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<210> 2469
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aagaucugga acuguggcca 20

<210> 2470
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<210> 2471
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caucacacgg uggaaagauc 20

<210> 2472
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cuguugcagg caucacacgg 20

<210> 2473

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aggcuguugc aggcaucaca 20

<210> 2474
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ccccccguc aggcuguugc 20

<210> 2475
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accgccccag ccccccguc 20

<210> 2476
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gaagaagguc aaggcuggaa 20

<210> 2479
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ggaagaaggu caaggcugga 20

<210> 2480
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<210> 2487
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gcacgagugg gcuggagggc 20

<210> 2488
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<210> 2489
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<220>
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<210> 2490

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<210> 2491
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<210> 2492
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<210> 2493
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<210> 2496
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<210> 2497
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<210> 2498
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<220>
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gcaagccauu ucacaaacgc 20

<210> 2499
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<210> 2500
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<210> 2501
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<210> 2502
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<210> 2503
<211> 17
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<210> 2504
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<400> 2504
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<210> 2505
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<210> 2506
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<210> 2507

<211> 17
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<210> 2508
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ccaaggccug gggaggg 17

<210> 2509
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augccaaggc cugggga 17

<210> 2510
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<210> 2511
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<220>
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<400> 2511
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<210> 2512
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<220>
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<400> 2512

uggggaugcc aaggccu 17

<210> 2513
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<210> 2514
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<400> 2514
ugcaccuggg gaugcca 17

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<400> 2515
cagccagccu gcaccug 17

<210> 2516
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<220>
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ccagccagcc ugcaccu 17

<210> 2517
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<400> 2517
cccagccagc cugcacc 17

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<211> 17
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<400> 2518
gacccucugu gcccggc 17

<210> 2519
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<210> 2522
<211> 17
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<210> 2523
<211> 17
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<400> 2523
agagggagcc ucuuccu 17

<210> 2524

<211> 17
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<400> 2524
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<210> 2525
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<400> 2525
cccggaucga ggagaga 17

<210> 2526
<211> 17
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<220>
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<400> 2526
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<210> 2527
<211> 17
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<220>
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<400> 2527
cucacucucc cggaucg 17

<210> 2528
<211> 17
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<400> 2528
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<210> 2529
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<400> 2529

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<210> 2530
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<400> 2530
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<210> 2531
<211> 17
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<400> 2531
guucagacca uccgugg 17

<210> 2532
<211> 17
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<400> 2532
uguucagacc auccgug 17

<210> 2533
<211> 17
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<400> 2533
cuguucagac cauccgu 17

<210> 2534
<211> 17
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<220>
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<400> 2534
ccuguucaga ccauccg 17

<210> 2535
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<220>
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<400> 2535
ucucugccca gauucca 17

<210> 2536
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<220>
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<400> 2536
gucucugccc agauucc 17

<210> 2537
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<220>
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<400> 2537
ggggauugug cccgccu 17

<210> 2538
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<220>
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uggggauugu gcccgcc 17

<210> 2539
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<220>
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aggaucccuc cugggug 17

<210> 2540
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caggaucccu ccugggu 17

<210> 2541

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<220>
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<210> 2542
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<220>
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ucuccaggau cccuccu 17

<210> 2543
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<220>
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gucuccagga ucccucc 17

<210> 2544
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<220>
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acaguucuuc ugucucc 17

<210> 2545
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guguaccugu ucgagug 17

<210> 2546
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<400> 2546

ucaaaguuua gaugagc 17

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ccauguggga cuaaccu 17

<210> 2548
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ugggaugagc cccaugu 17

<210> 2549
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<210> 2550
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cgaguuuucc uaaggau 17

<210> 2551
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<220>
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<210> 2552
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ucacucgagu uuuccua 17

<210> 2553
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<210> 2554
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<220>
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uccgacagaa ugggagu 17

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<220>
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cuccgacaga augggag 17

<210> 2557
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<220>
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agaggcuccg acagaau 17

<210> 2558

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cagaggcucc gacagaa 17

<210> 2559
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<220>
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<400> 2559
agccgggagg cucccag 17

<210> 2560
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ggcugugggc agccggg 17

<210> 2561
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agaggcugug ggcagcc 17

<210> 2562
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<220>
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cagaggcugu gggcagc 17

<210> 2563
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<220>
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<400> 2563

gcaggggcag aggcugu 17

<210> 2564
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agcaggggca gaggcug 17

<210> 2565
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gcccccagca ggggcag 17

<210> 2566
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gcaccugccc ccagcag 17

<210> 2567
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ggcaccugcc cccagca 17

<210> 2568
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aggcaccugc ccccagc 17

<210> 2569
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<210> 2570
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<210> 2571
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<400> 2571
agggggaugg gccggga 17

<210> 2572
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<220>
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<400> 2572
gcgaaggggg augggcc 17

<210> 2573
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<220>
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<400> 2573
agcgaagggg gaugggc 17

<210> 2574
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<400> 2574
ccccagcgaa gggggau 17

<210> 2575

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<220>
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<400> 2575
gccccagcga aggggga 17

<210> 2576
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<220>
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cugugcccca gcgaagg 17

<210> 2577
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<220>
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ccugugcccc agcgaag 17

<210> 2578
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<220>
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accugugccc cagcgaa 17

<210> 2579
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caccugugcc ccagcga 17

<210> 2580
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<400> 2580

acaguuguca uucagua 17

<210> 2581
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<220>
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<400> 2581
gacaguuguc auucagu 17

<210> 2582
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<220>
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<400> 2582
ggggagccga uuagcca 17

<210> 2583
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<220>
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<400> 2583
agguggaagc uuugagg 17

<210> 2584
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<220>
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<400> 2584
aagguggaag cuuugag 17

<210> 2585
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<220>
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<400> 2585
caagguggaa gcuuuga 17

<210> 2586
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<220>
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acaaggugga agcuuug 17

<210> 2587
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<220>
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<400> 2587
ugaggccauc cacaagg 17

<210> 2588
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<220>
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<400> 2588
gugugaggcc auccaca 17

<210> 2589
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<220>
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<400> 2589
acuguggcca uggugug 17

<210> 2590
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<220>
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aucuggaacu guggcca 17

<210> 2591
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<220>
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<400> 2591
ggaaagaucu ggaacug 17

<210> 2592

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<220>
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cacacggugg aaagauc 17

<210> 2593
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<220>
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<400> 2593
uugcaggcau cacacgg 17

<210> 2594
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<220>
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<400> 2594
cuguugcagg caucaca 17

<210> 2595
<211> 17
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<220>
<223> Synthetic oligonucleotide: PDCD1-3161

<400> 2595
ccccgucagg cuguugc 17

<210> 2596
<211> 17
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<220>
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<400> 2596
gccccagccc ccccguc 17

<210> 2597
<211> 17
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<220>
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<400> 2597

gucaaggcug gaagggg 17

<210> 2598
<211> 17
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<220>
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<400> 2598
aaggucaagg cuggaag 17

<210> 2599
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<220>
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<400> 2599
gaaggucaag gcuggaa 17

<210> 2600
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<220>
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agaaggucaa ggcugga 17

<210> 2601
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<400> 2601
gggaagaagg ucaaggc 17

<210> 2602
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<220>
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<400> 2602
cccggggaag aagguca 17

<210> 2603
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<210> 2604
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<400> 2604
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<210> 2605
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<220>
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<400> 2605
cuggagggca gggcccc 17

<210> 2606
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<220>
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<400> 2606
gcuggagggc agggccc 17

<210> 2607
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<220>
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<400> 2607
gagugggcug gagggca 17

<210> 2608
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<220>
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<400> 2608
cgagugggcu ggagggc 17

<210> 2609

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<210> 2610
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<400> 2610
uggcacgagu gggcugg 17

<210> 2611
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<400> 2611
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<210> 2612
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<210> 2613
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<220>
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<400> 2613
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<210> 2614
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<400> 2614

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<210> 2615
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<220>
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cagccaggcc caggcac 17

<210> 2616
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<220>
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<210> 2617
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<220>
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<400> 2617
acgccgggcc gccagcc 17

<210> 2618
<211> 17
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<220>
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<400> 2618
gccauuucac aaacgcc 17

<210> 2619
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<220>
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<400> 2619
agccauuuca caaacgc 17

<210> 2620
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<220>
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<400> 2620
gcucagcaca gaauaca 17

<210> 2621
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<220>
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<400> 2621
agacucccca cggccaaggu 20

<210> 2622
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gacuccccac ggccaagguu 20

<210> 2623
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<220>
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<400> 2623
cagccugacc cgucauucua 20

<210> 2624
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<220>
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<400> 2624
cuacagaaac acgcagcccc 20

<210> 2625
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<220>
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<400> 2625
cacgcagccc caaggaccgg 20

<210> 2626

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<400> 2626
cgcagcccca aggaccggcu 20

<210> 2627
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<220>
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<400> 2627
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<210> 2628
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<220>
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agccccaagg accggcugag 20

<210> 2629
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<210> 2630
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<220>
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<400> 2630
aaggaccggc ugagagggga 20

<210> 2631
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<220>
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ggacagaggu ccugccugcc 20

<210> 2632
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<220>
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<400> 2632
gacagagguc cugccugccc 20

<210> 2633
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<220>
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<400> 2633
guccugccug cccaggagca 20

<210> 2634
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<220>
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<400> 2634
ccugccugcc caggagcaaa 20

<210> 2635
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<220>
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<400> 2635
cugccugccc aggagcaaag 20

<210> 2636
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<220>
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<400> 2636
ugccugccca ggagcaaaga 20

<210> 2637
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<220>
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cccaggagca aagaggggac 20

<210> 2638
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<220>
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<400> 2638
agcaaagagg ggacuuggggc 20

<210> 2639
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<220>
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gcaaagaggg gacuuggggcc 20

<210> 2640
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<220>
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<400> 2640
caaagagggg acuuggggcca 20

<210> 2641
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<220>
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<400> 2641
aaagagggga cuuggggccag 20

<210> 2642
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<220>
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<400> 2642
agaggggacu ugggccaggg 20

<210> 2643

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<220>
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<400> 2643
gaggggacuu gggccagggg 20

<210> 2644
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<220>
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<210> 2645
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<220>
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<400> 2645
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<210> 2646
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<220>
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<210> 2647
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<220>
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<400> 2647
aggggaggag uuggggccca 20

<210> 2648
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<220>
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gggaggaguu ggggcccaga 20

<210> 2649
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<220>
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<400> 2649
ggaggaguug gggcccagag 20

<210> 2650
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<220>
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uuggggccca gagaggaacc 20

<210> 2651
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<220>
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<400> 2651
uggggcccag agaggaaccc 20

<210> 2652
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<220>
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<400> 2652
ccagagagga acccaggagu 20

<210> 2653
<211> 20
<212> RNA
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<220>
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<400> 2653
cugcccaaag ccacacagcu 20

<210> 2654
<211> 20
<212> RNA
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<220>
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aaagccacac agcucagggu 20

<210> 2655
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<212> RNA
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aagccacaca gcucagggua 20

<210> 2656
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<220>
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acacagcuca ggguaagggg 20

<210> 2657
<211> 20
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<220>
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gcucagggua aggggcagag 20

<210> 2658
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<220>
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cucaggguaa ggggcagagc 20

<210> 2659
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<220>
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<400> 2659
ucaggguaag gggcagagcu 20

<210> 2660

<211> 20
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<220>
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<400> 2660
ggcagagcug ggggccaagg 20

<210> 2661
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<220>
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cacagcaccc cccgaccugc 20

<210> 2662
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<220>
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<400> 2662
acagcacccc ccgaccugcc 20

<210> 2663
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<220>
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<400> 2663
acccccccgac cugccaggga 20

<210> 2664
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<212> RNA
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<220>
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<400> 2664
cccccgaccu gccagggacu 20

<210> 2665
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<220>
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<400> 2665

cgaccugcca gggacugaga 20

<210> 2666
<211> 20
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<220>
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<400> 2666
gucccuccag accccucgcu 20

<210> 2667
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<220>
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<400> 2667
ucccuccaga ccccucgcuc 20

<210> 2668
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<220>
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<400> 2668
gaccccucgc uccgggaccc 20

<210> 2669
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<220>
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<400> 2669
cuccgggacc ccugggcugc 20

<210> 2670
<211> 20
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<220>
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<400> 2670
cucagcaccc cccgaccugc 20

<210> 2671
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<220>
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<400> 2671
ucagcacccc ccgaccugcc 20

<210> 2672
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<220>
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<400> 2672
acccccccgac cugccaggga 20

<210> 2673
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<220>
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<400> 2673
cccccgaccu gccagggacu 20

<210> 2674
<211> 20
<212> RNA
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<220>
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cgaccugcca gggacugagg 20

<210> 2675
<211> 20
<212> RNA
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<220>
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<400> 2675
gaccugccag ggacugaggg 20

<210> 2676
<211> 20
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<220>
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<400> 2676
gucccuccag accccuggcu 20

<210> 2677

<211> 20
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<220>
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<400> 2677
ucccuccaga ccccuggcuc 20

<210> 2678
<211> 20
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<220>
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<400> 2678
accgccgacc ccaccuaccu 20

<210> 2679
<211> 20
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<220>
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<400> 2679
gcaccgccca gacgacuggc 20

<210> 2680
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<220>
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<400> 2680
gacgacuggc cagggcgccu 20

<210> 2681
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<220>
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<400> 2681
acgacuggcc agggcgccug 20

<210> 2682
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<220>
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<400> 2682

cgccuguggg aucugcaugc 20

<210> 2683
<211> 20
<212> RNA
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<220>
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<400> 2683
gccuguggga ucugcaugcc 20

<210> 2684
<211> 20
<212> RNA
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<220>
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<400> 2684
caugccugga gcagccccac 20

<210> 2685
<211> 20
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<220>
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<400> 2685
ccgccuucuc cacugcucag 20

<210> 2686
<211> 20
<212> RNA
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<220>
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<400> 2686
cgccuucucc acugcucagg 20

<210> 2687
<211> 20
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<220>
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<400> 2687
ucuccacugc ucaggcggag 20

<210> 2688
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<220>
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<400> 2688
cacugcucag gcggagguga 20

<210> 2689
<211> 20
<212> RNA
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<220>
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<400> 2689
acugcucagg cggaggugag 20

<210> 2690
<211> 20
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<220>
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<400> 2690
gcucaggcgg aggugagcgg 20

<210> 2691
<211> 20
<212> RNA
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<220>
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<400> 2691
cucaggcgga ggugagcgga 20

<210> 2692
<211> 20
<212> RNA
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<220>
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<400> 2692
ucaggcggag gugagcggaa 20

<210> 2693
<211> 20
<212> RNA
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<220>
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<400> 2693
ggaaacuguc ccaggucagg 20

<210> 2694

<211> 20
<212> RNA
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<220>
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<400> 2694
aacuguccca ggucagguug 20

<210> 2695
<211> 20
<212> RNA
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<220>
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<400> 2695
acugucccag gucagguuga 20

<210> 2696
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<220>
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<400> 2696
cugucccagg ucagguugaa 20

<210> 2697
<211> 20
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<220>
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<400> 2697
gucccagguc agguugaagg 20

<210> 2698
<211> 20
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<220>
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<400> 2698
cccucuuccu ccacauccac 20

<210> 2699
<211> 20
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<220>
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<400> 2699

cuuccuccac auccacgugg 20

<210> 2700
<211> 20
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<220>
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<400> 2700
uccuccacau ccacgugggc 20

<210> 2701
<211> 20
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<220>
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<400> 2701
auccacgugg gcgagaguga 20

<210> 2702
<211> 20
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<220>
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<400> 2702
cgagagugac agaggcagug 20

<210> 2703
<211> 20
<212> RNA
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<220>
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<400> 2703
gagagugaca gaggcagugc 20

<210> 2704
<211> 20
<212> RNA
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<220>
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<400> 2704
agagugacag aggcagugcu 20

<210> 2705
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<220>
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<400> 2705
gagugacaga ggcagugcug 20

<210> 2706
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<220>
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<400> 2706
agugacagag gcagugcugg 20

<210> 2707
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<212> RNA
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<220>
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<400> 2707
ugacagaggc agugcugggg 20

<210> 2708
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<220>
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<400> 2708
gacagaggca gugcuggggg 20

<210> 2709
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<220>
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<400> 2709
cagaggcagu gcugggggag 20

<210> 2710
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<212> RNA
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<220>
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<400> 2710
agaggcagug cuggggggagg 20

<210> 2711

<211> 20
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<220>
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<400> 2711
gcagugcugg gggaggaggg 20

<210> 2712
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<220>
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<400> 2712
agugcugggg gaggaggggu 20

<210> 2713
<211> 20
<212> RNA
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<220>
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<400> 2713
gugcuggggg aggaggggug 20

<210> 2714
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<212> RNA
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<220>
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<400> 2714
gcugggggag gaggggugag 20

<210> 2715
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<220>
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<400> 2715
cuggggggagg aggggugagg 20

<210> 2716
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<220>
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<400> 2716

ugggggagga ggggugagga 20

<210> 2717
<211> 20
<212> RNA
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<220>
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<400> 2717
gaggaggggu gaggaggggg 20

<210> 2718
<211> 20
<212> RNA
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<220>
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<400> 2718
ggggugagga ggggguagga 20

<210> 2719
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 2719
gggugaggag gggguaggac 20

<210> 2720
<211> 20
<212> RNA
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<220>
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<400> 2720
ggugaggagg ggguaggacu 20

<210> 2721
<211> 20
<212> RNA
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<220>
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<400> 2721
gugaggaggg gguaggacug 20

<210> 2722
<211> 20
<212> RNA
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<220>
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<400> 2722
gaggaggggg uaggacuggg 20

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<210> 2756
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<220>
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<220>
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<210> 2763
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ccugacccgu cauucua 17

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<210> 2775
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ccccaaggac cggcuga 17

<210> 2777
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ccaaggaccg gcugaga 17

<210> 2779

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gaccggcuga gagggga 17

<210> 2780
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<210> 2781
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<210> 2782
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<210> 2783
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gccugcccag gagcaaa 17

<210> 2784
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ccugcccagg agcaaag 17

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aggagcaaag aggggac 17

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aaagagggga cuugggc 17

<210> 2788
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aagaggggac uugggcc 17

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gggacuuggg ccagggg 17

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uugggccagg ggaggag 17

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ggggaggagu uggggcc 17

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aggaguuggg gcccaga 17

<210> 2798
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ggaguugggg cccagag 17

<210> 2799
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gggcccagag aggaacc 17

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ggcccagaga ggaaccc 17

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gagaggaacc caggagu 17

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ccacacagcu cagggua 17

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aggguaaggg gcagagc 17

<210> 2808
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ggguaagggg cagagcu 17

<210> 2809
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<220>
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agagcugggg gccaagg 17

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<220>
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<400> 2811
gcaccccccg accugcc 17

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ccccgaccug ccaggga 17

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<210> 2816
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<210> 2817
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<210> 2818
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<210> 2819
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<220>
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<210> 2820
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<220>
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<400> 2820
gcacccccg accugcc 17

<210> 2821
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<220>
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ccccgaccug ccaggga 17

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<220>
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<220>
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ccugccaggg acugagg 17

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<220>
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cugccaggga cugaggg 17

<210> 2825
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<220>
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ccuccagacc ccuggcu 17

<210> 2826
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<220>
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cuccagaccc cuggcuc 17

<210> 2827
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<210> 2828
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<220>
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ccgcccagac gacuggc 17

<210> 2829
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<220>
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<210> 2830

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acuggccagg gcgccug 17

<210> 2831
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<220>
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cugugggauc ugcaugc 17

<210> 2832
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<220>
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ugugggaucu gcaugcc 17

<210> 2833
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<220>
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<400> 2833
gccuggagca gccccac 17

<210> 2834
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<220>
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<400> 2834
ccuucuccac ugcucag 17

<210> 2835
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<400> 2835

cuucuccacu gcucagg 17

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<400> 2836
ccacugcuca ggcggag 17

<210> 2837
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<400> 2837
ugcucaggcg gagguga 17

<210> 2838
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<400> 2838
gcucaggcgg aggugag 17

<210> 2839
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<220>
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<400> 2839
caggcggagg ugagcgg 17

<210> 2840
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<220>
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aggcggaggu gagcgga 17

<210> 2841
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<220>
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<400> 2841
ggcggaggug agcggaa 17

<210> 2842
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<220>
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<400> 2842
aacuguccca ggucagg 17

<210> 2843
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ugucccaggu cagguug 17

<210> 2844
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gucccagguc agguuga 17

<210> 2845
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ucccagguca gguugaa 17

<210> 2846
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ccaggucagg uugaagg 17

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<210> 2857
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<210> 2864

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<210> 2865
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<210> 2866
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<210> 2867
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<210> 2870
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<210> 2881

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<210> 2884
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<210> 2903
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<210> 2904
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<210> 2905
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<210> 2923
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<210> 2924
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<210> 2925
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ggccugggug aggggcuggg 20

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<210> 2930
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acgacaccaa ccaccagggu 20

<210> 2936
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ccgcccacga caccaaccac 20

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gcccgggagc agaugacggc 20

<210> 2938
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<210> 2939
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<220>
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ucccugcaga gaaacacacu 20

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gucccugcag agaaacacac 20

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uggcuccuau ugucccugca 20

<210> 2944
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<210> 2945
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<210> 2946
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<210> 2947
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ucuuugagga gaaagggaga 20

<210> 2948
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<220>
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uucuuugagg agaaagggag 20

<210> 2949

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<210> 2950
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<220>
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<210> 2951
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<210> 2952
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<220>
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<400> 2952
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<210> 2953
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<400> 2953
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<210> 2954
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<400> 2954

agggguccuc cuucuuugag 20

<210> 2955
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<210> 2956
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<210> 2957
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ggcugagggg uccuccuucu 20

<210> 2958
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<220>
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<400> 2958
agagaacaca ggcacggcug 20

<210> 2959
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<220>
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cagagaacac aggcacggcu 20

<210> 2960
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<400> 2960
cacagagaac acaggcacgg 20

<210> 2961
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<220>
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ccagcucccc auaguccaca 20

<210> 2962
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<400> 2962
auccagcucc ccauagucca 20

<210> 2963
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<220>
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<400> 2963
ccggggucuu cucucgccac 20

<210> 2964
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<220>
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<400> 2964
uccggggucu ucucucgcca 20

<210> 2965
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<220>
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acacagggca cgggggcuc 20

<210> 2966

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<220>
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gacacagggc acgggggcu 20

<210> 2967
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<400> 2967
gcucagggac acagggcacg 20

<210> 2968
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ugcucaggga cacagggcac 20

<210> 2969
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<220>
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cugcucaggg acacagggca 20

<210> 2970
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<220>
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<210> 2978
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<210> 2979
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<210> 2980
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<210> 2983

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<210> 2984
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<210> 2985
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<210> 2986
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<210> 2987
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<210> 2988
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guggccaagg aagccgguca 20

<210> 2989
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<210> 2990
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<210> 2991
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<210> 2993
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<210> 2995
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<400> 3005

cuggccggcu ggccugg 17

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<210> 3012
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<210> 3013
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<210> 3014
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<210> 3015
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uccuucuuug aggagaa 17

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gggguccucc uucuuug 17

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agaacacagg cacggcu 17

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<210> 3034

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ggggucuucu cucgcca 17

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<220>
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acagggcacg gggggcu 17

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cucagggaca cagggca 17

<210> 3043
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gcucagggac acagggc 17

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<210> 3045
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<210> 3046
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ugaggugccc auuccgc 17

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<210> 3051

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caguggcugg gcacucc 17

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uccucaggcc ucagugg 17

<210> 3059
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agccggucag aggggcc 17

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ccaaggaagc cggucag 17

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<210> 3062
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uggccaagga agccggu 17

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cagaacacug guggcca 17

<210> 3064
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gcagaacacu gguggcc 17

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aaccccaaac cuuggccgug 20

<210> 3066
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gaaccccaaa ccuuggccgu 20

<210> 3067
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agaaccccaa accuuggccg 20

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cagaacccca aaccuuggcc 20

<210> 3069
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gaaugacggg ucaggcuggc 20

<210> 3070
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cugcguguuu cuguagaaug 20

<210> 3071
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cuuggggcug cguguuucug 20

<210> 3072
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uguccccucu cagccggucc 20

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<210> 3076
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<210> 3077
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gcuuugggca gcucgaacuc 20

<210> 3078
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gcuguguggc uuugggcagc 20

<210> 3079
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<220>
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<400> 3079
uuacccugag cuguguggcu 20

<210> 3080
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<220>
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ccccagcucu gccccuuacc 20

<210> 3081
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<220>
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ucucaguccc uggcaggucg 20

<210> 3082
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<220>
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cucucagucc cuggcagguc 20

<210> 3083
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<220>
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<400> 3083
acucucaguc ccuggcaggu 20

<210> 3084
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<210> 3085

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<210> 3086
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gucccggagc gaggggucug 20

<210> 3087
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gggucccgga gcgagggguc 20

<210> 3088
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gggucccgg agcgaggggu 20

<210> 3089
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agcccagggg ucccggagcg 20

<210> 3090
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cagcccaggg gucccggagc 20

<210> 3091
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<400> 3091
ggcagcccag gggucccgga 20

<210> 3092
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<220>
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cccuggcagc ccaggggucc 20

<210> 3093
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<220>
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<400> 3093
gcccuggcag cccagggguc 20

<210> 3094
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<220>
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gggccuggcc cuggcagccc 20

<210> 3095
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<210> 3113
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<210> 3114
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<210> 3128
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<210> 3130
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<210> 3131
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<210> 3142
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<210> 3143
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<210> 3144
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<210> 3145
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<210> 3146
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<210> 3162
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<210> 3189
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<210> 3191
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<220>
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<210> 3192
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<210> 3193
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cccaaaccuu ggccgug 17

<210> 3194
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<220>
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<210> 3195
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<210> 3196
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ugacggguca ggcuggc 17

<210> 3198
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<210> 3199
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cuuugcuccu gggcagg 17

<210> 3203
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<210> 3204

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<210> 3205
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<210> 3208
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<210> 3209
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<210> 3210
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<210> 3213
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<210> 3214
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<210> 3216
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<210> 3217
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<210> 3252
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<400> 3257
cguggaugug gaggaag 17

<210> 3258
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<210> 3259
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<210> 3303
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<210> 3304
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<210> 3305
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<210> 3306

<211> 17
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<400> 3306
ggcccccagg gagaugg 17

<210> 3307
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cggcccccag ggagaug 17

<210> 3308
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<210> 3309
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<210> 3315
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<210> 3316
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<210> 3317
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<210> 3318
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caggaaccug agcccag 17

<210> 3319
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<220>
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<210> 3321
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<220>
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<210> 3322
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<210> 3323

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<220>
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<210> 3324
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<220>
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<400> 3324
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<210> 3325
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<220>
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<400> 3325
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<210> 3326
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<220>
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<400> 3326
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<210> 3327
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<400> 3327
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<210> 3328
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<220>
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<400> 3328

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<210> 3329
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<220>
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<400> 3329
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<210> 3330
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<210> 3331
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<220>
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<210> 3333
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<220>
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<210> 3334
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<400> 3334
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<210> 3335
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<400> 3335
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<210> 3336
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<400> 3336
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<210> 3337
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<400> 3337
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<210> 3338
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<400> 3338
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<210> 3339
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<210> 3340

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<210> 3356
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<220>
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<210> 3388
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<210> 3397
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<210> 3404
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<210> 3405
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<210> 3409
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<210> 3410
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<210> 3414
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<210> 3415
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<210> 3416
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<210> 3417
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<210> 3418
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<210> 3419
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uuacagcgaa uggaaaacag 20

<210> 3420
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<220>
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gcgaauggaa aacaggagaa 20

<210> 3421
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<220>
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cgguacccag cagggcc 17

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<220>
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guacccagca gggccca 17

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uacccagcag ggcccag 17

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acugucuuag gcuuggc 17

<210> 3425

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ucuuaggcuu ggccugg 17

<210> 3426
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<220>
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ccccaggugc aggcugg 17

<210> 3427
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<400> 3427
ugcaggcugg cugggca 17

<210> 3428
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caggcuggcu gggcaca 17

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<220>
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<400> 3429
ugggcacaga gggccag 17

<210> 3430
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<220>
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<400> 3430

agagggccag ccgggca 17

<210> 3431
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<220>
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<400> 3431
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<210> 3432
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<400> 3433
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<210> 3434
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gcacagaggg uccagga 17

<210> 3435
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<400> 3435
uguggucaca guguaca 17

<210> 3436
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<400> 3436
uggucacagu guacaca 17

<210> 3437
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<400> 3437
aguguacaca gagggcc 17

<210> 3438
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<400> 3438
acagagggcc caggguc 17

<210> 3439
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<210> 3440
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<210> 3441
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<400> 3441
gucacgggca gcccagg 17

<210> 3442

<211> 17
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<220>
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<400> 3442
cucccucucu ccucgau 17

<210> 3443
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<220>
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<400> 3443
ucccucucuc cucgauc 17

<210> 3444
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<220>
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<400> 3444
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<210> 3445
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<220>
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<210> 3446
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<220>
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<400> 3446
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<210> 3447
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<220>
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<400> 3447

aggccaaggc cucccccc 17

<210> 3448
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<220>
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ccucccccac ggauggu 17

<210> 3449
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<220>
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<400> 3449
cccacggaug gucugaa 17

<210> 3450
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<220>
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<400> 3450
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<210> 3451
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<220>
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<400> 3451
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<210> 3452
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<220>
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<400> 3452
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<210> 3453
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<220>
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<400> 3453
ggucugaaca gggcucg 17

<210> 3454
<211> 17
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<220>
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<400> 3454
ucugaacagg gcucggg 17

<210> 3455
<211> 17
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<220>
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<400> 3455
agggcucggg gagagcc 17

<210> 3456
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<220>
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<400> 3456
gggcucgggg agagccc 17

<210> 3457
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<220>
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<400> 3457
ggggagagcc cuggaau 17

<210> 3458
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<220>
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<400> 3458
gagcccugga aucuggg 17

<210> 3459

<211> 17
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<220>
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<400> 3459
ucugggcaga gacccag 17

<210> 3460
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<220>
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<400> 3460
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<210> 3461
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<220>
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<400> 3461
gggcacaauc cccaccc 17

<210> 3462
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<220>
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<400> 3462
gcacaauccc cacccag 17

<210> 3463
<211> 17
<212> RNA
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<220>
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<400> 3463
cacaaucccc acccagg 17

<210> 3464
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<210> 3558
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<210> 3559
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<210> 3561

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<210> 3562
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<210> 3565
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<210> 3566
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<210> 3567
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<210> 3568
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<210> 3570
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<210> 3571
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<210> 3572
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<210> 3574
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<210> 3575
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<210> 3577
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<210> 3578

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<210> 3579
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<210> 3580
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ccccagcagg ggcagaggcu 20

<210> 3581
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<210> 3582
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<210> 3583
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<210> 3584
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<210> 3585
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<210> 3586
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<210> 3587
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acaaggugga agcuuugagg 20

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cacaaggugg aagcuuugag 20

<210> 3598
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<210> 3599
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<210> 3604
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cuguugcagg caucacacgg 20

<210> 3608
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<220>
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gaagaagguc aaggcuggaa 20

<210> 3611
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<220>
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<400> 3611
ggaagaaggu caaggcugga 20

<210> 3612

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<400> 3613
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<210> 3614
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<220>
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<400> 3614
cccggggaag aaggucaagg 20

<210> 3615
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<220>
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<400> 3615
uggagggcag ggccccgggg 20

<210> 3616
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<220>
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<400> 3616
ggcuggaggg cagggccccg 20

<210> 3617
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<400> 3617

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<400> 3618
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<210> 3619
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<220>
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<400> 3619
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<210> 3620
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<220>
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<400> 3620
ggcacgagug ggcuggaggg 20

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<220>
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<400> 3621
acccuggcac gagugggcug 20

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<210> 3623
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<220>
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<400> 3623
cccacccugg cacgaguggg 20

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<220>
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accaccccac ccuggcacga 20

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<220>
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aggcccaggc acuggacccc 20

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<220>
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<400> 3627
ccgccagcca ggcccaggca 20

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<220>
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agcaagccau uucacaaacg 20

<210> 3629

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agccuaagac agucccu 17

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ggaugccaag gccuggg 17

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<210> 3646

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agagagggag ccucuuc 17

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cccggaucga ggagaga 17

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ggccucacuc ucccgga 17

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gccuuggccu cacucuc 17

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guucagacca uccgugg 17

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uguucagacc auccgug 17

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agauuccagg gcucucc 17

<210> 3662
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ggucucugcc cagauuc 17

<210> 3663

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guggggauug ugcccgc 17

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ugucuccagg aucccuc 17

<210> 3668
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gacaguucuu cugucuc 17

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aguguaccug uucgagu 17

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aaaguguacc uguucga 17

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<400> 3671
auccaaagug uaccugu 17

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<220>
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acgacgucaa aguuuag 17

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augggaugag ccccaug 17

<210> 3674
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<220>
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<400> 3674
gaugggauga gccccau 17

<210> 3675
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<220>
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guuuuccuaa ggauggg 17

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<220>
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ucgaguuuuc cuaagga 17

<210> 3677
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<400> 3677
cucgaguuuu ccuaagg 17

<210> 3678
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cucacucgag uuuuccu 17

<210> 3679
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gcauccuugg uccucac 17

<210> 3680

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acagaauggg agugggg 17

<210> 3681
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cuccgacaga augggag 17

<210> 3682
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<220>
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gcuccgacag aauggga 17

<210> 3683
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<220>
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agaggcuccg acagaau 17

<210> 3684
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<220>
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cagaggcucc gacagaa 17

<210> 3685
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<220>
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ccagaggcuc cgacaga 17

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<220>
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gcucccagag gcuccga 17

<210> 3687
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<220>
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<400> 3687
ggcagccggg aggcucc 17

<210> 3688
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<220>
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agaggcugug ggcagcc 17

<210> 3689
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<220>
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cagaggcugu gggcagc 17

<210> 3690
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gcagaggcug ugggcag 17

<210> 3691
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<220>
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<400> 3691
cagcaggggc agaggcu 17

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<220>
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<400> 3692
ccugccccca gcagggg 17

<210> 3693
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<220>
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aggcaccugc ccccagc 17

<210> 3694
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<220>
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<400> 3694
caggcaccug cccccag 17

<210> 3695
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<220>
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gggaugggcc gggaagg 17

<210> 3696
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<220>
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gcgaaggggg augggcc 17

<210> 3697

<211> 17
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<220>
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agcgaagggg gaugggc 17

<210> 3698
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<220>
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<400> 3698
cagcgaaggg ggauggg 17

<210> 3699
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<220>
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<400> 3699
ugccccagcg aaggggg 17

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<220>
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ccugugcccc agcgaag 17

<210> 3701
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<220>
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accugugccc cagcgaa 17

<210> 3702
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<220>
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<400> 3702

caccugugcc ccagcga 17

<210> 3703
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<220>
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<400> 3703
ucaccugugc cccagcg 17

<210> 3704
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<220>
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<400> 3704
gggucaccug ugcccca 17

<210> 3705
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<220>
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<400> 3705
ggacaguugu cauucag 17

<210> 3706
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<400> 3706
gggggagccg auuagcc 17

<210> 3707
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<400> 3707
agguggaagc uuugagg 17

<210> 3708
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<220>
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<400> 3708
aagguggaag cuuugag 17

<210> 3709
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<220>
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<400> 3709
caagguggaa gcuuuga 17

<210> 3710
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<220>
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<400> 3710
acaaggugga agcuuug 17

<210> 3711
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<220>
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<400> 3753

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<210> 3765

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<210> 3767
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<210> 3769
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<210> 3771
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<210> 3773
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<210> 3778
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<210> 3779
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<210> 3781
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<210> 3782

<211> 17
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<210> 3784
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<210> 3785
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<210> 3786
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<210> 3787
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<210> 3790
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<210> 3792
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<210> 3793
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<210> 3794
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<210> 3796
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<210> 3797
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<210> 3798
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<210> 3799

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<210> 3801
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<210> 3802
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<210> 3803
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<220>
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<210> 3804
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agcuaccgug gacaccu 17

<210> 3805
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<210> 3806
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<220>
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<210> 3807
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<220>
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<210> 3808
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<210> 3809
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<210> 3810
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<210> 3811
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gauuucuaug accuguaugg 20

<210> 3812
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ggaguacuac acucagcagc 20

<210> 3813
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<210> 3814
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<210> 3815
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<210> 3816

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<210> 3817
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<220>
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<210> 3818
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<210> 3819
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gcccgccaga cauguggcca 20

<210> 3820
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<220>
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gguggaugau ggugccgucg 20

<210> 3821
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<220>
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<400> 3821

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<210> 3822
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<210> 3823
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gacucugaca gagcugg 17

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<210> 3830
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gagagccuca gccagcc 17

<210> 3832
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gcucagugac cagccca 17

<210> 3833

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<210> 3835
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guacuugagg uggauga 17

<210> 3838
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<400> 3838

gagccaggaa gcuaccg 17

<210> 3839
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<210> 3840
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<400> 3840
cucaagggcc gaggugucca 20

<210> 3841
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agguguccac gguagcuucc 20

<210> 3842
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uccacgguag cuuccuggcu 20

<210> 3843
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<400> 3843
cauauucgga uccagaacuc 20

<210> 3844
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<400> 3844
auauucggau ccagaacuca 20

<210> 3845
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uauucggauc cagaacucag 20

<210> 3846
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<210> 3847
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<400> 3847
uuucuaugac cuguauggag 20

<210> 3848
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<220>
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ugcgacucug acagagcugg 20

<210> 3849
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<400> 3849
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<210> 3850

<211> 20
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<220>
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<400> 3850
ugguaccaug gccacauguc 20

<210> 3851
<211> 20
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<220>
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<400> 3851
accauggcca caugucuggc 20

<210> 3852
<211> 20
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<220>
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<400> 3852
uggccacaug ucuggcgggc 20

<210> 3853
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<220>
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<400> 3853
agagacgcug cugcaggcca 20

<210> 3854
<211> 20
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<220>
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<400> 3854
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<210> 3855
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<220>
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<400> 3855

cgugagagcc ucagccagcc 20

<210> 3856
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<220>
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<400> 3856
ugugcucagu gaccagccca 20

<210> 3857
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<220>
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<210> 3858
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<220>
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<400> 3858
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<210> 3859
<211> 20
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<220>
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<400> 3859
uggcccaggc uccccgcuca 20

<210> 3860
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<220>
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<400> 3860
ugacccugag cggggagccu 20

<210> 3861
<211> 20
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<220>
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<400> 3861
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<210> 3862
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<220>
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<400> 3862
agccugggcc agccuugggc 20

<210> 3863
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<220>
<223> Synthetic oligonucleotide: Ptpn6-115

<400> 3863
acagaaagca cgaagucucc 20

<210> 3864
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<220>
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<400> 3864
aaagcacgaa gucuccaggc 20

<210> 3865
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<220>
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<400> 3865
cgaagucucc aggcuggcug 20

<210> 3866
<211> 20
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<220>
<223> Synthetic oligonucleotide: Ptpn6-118

<400> 3866
cugccugccc gccagacaug 20

<210> 3867

<211> 20
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<220>
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<210> 3868
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<220>
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<400> 3868
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<210> 3869
<211> 20
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<220>
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cauagaaauc cccugaguuc 20

<210> 3870
<211> 20
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<220>
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<400> 3870
ugaguucugg auccgaauau 20

<210> 3871
<211> 20
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<220>
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<400> 3871
cggagagcga gaagucaccc 20

<210> 3872
<211> 20
<212> RNA
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<220>
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<400> 3872

ucucugcauc cagcccacug 20

<210> 3873
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<220>
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<400> 3873
cauccagccc acugaggucu 20

<210> 3874
<211> 17
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<220>
<223> Synthetic oligonucleotide: Ptpn6-126

<400> 3874
ccgagaccuc agugggc 17

<210> 3875
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<220>
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<400> 3875
ugcagagacc cugcuca 17

<210> 3876
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<220>
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<400> 3876
aagggccgag gugucca 17

<210> 3877
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<220>
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<400> 3877
uacuacacuc agcagca 17

<210> 3878
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<220>
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<400> 3878
uaccauggcc acauguc 17

<210> 3879
<211> 17
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<220>
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<400> 3879
cauggccaca ugucugg 17

<210> 3880
<211> 17
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<220>
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<400> 3880
auggccacau gucuggc 17

<210> 3881
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<220>
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<400> 3881
acgcugcugc aggccaa 17

<210> 3882
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<220>
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<400> 3882
aggccaaggg cgagccc 17

<210> 3883
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<220>
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<400> 3883
agugaccagc ccaaggc 17

<210> 3884

<211> 17
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cagcccaagg cuggccc 17

<210> 3885
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<220>
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<400> 3885
cccaggcucc ccgcuca 17

<210> 3886
<211> 17
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<220>
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<400> 3886
acccugagcg gggagcc 17

<210> 3887
<211> 17
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<220>
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<400> 3887
cccugagcgg ggagccu 17

<210> 3888
<211> 17
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<220>
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<400> 3888
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<210> 3889
<211> 17
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<220>
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<400> 3889

agucuccagg cuggcug 17

<210> 3890
<211> 17
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<220>
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<400> 3890
acuucucccc uccauac 17

<210> 3891
<211> 17
<212> RNA
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<220>
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<400> 3891
agaaaucccc ugaguuc 17

<210> 3892
<211> 17
<212> RNA
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<220>
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<400> 3892
agagcgagaa gucaccc 17

<210> 3893
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<220>
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<400> 3893
cugcauccag cccacug 17

<210> 3894
<211> 17
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<220>
<223> Synthetic oligonucleotide: Ptpn6-146

<400> 3894
ccagcccacu gaggucu 17

<210> 3895
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<220>
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<400> 3895
gguggacgcu acacaguggg 20

<210> 3896
<211> 20
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<220>
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<400> 3896
acgcuacaca gugggugguu 20

<210> 3897
<211> 20
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<220>
<223> Synthetic oligonucleotide: Ptpn6-149

<400> 3897
ggagaccuuc gacagccuca 20

<210> 3898
<211> 20
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<220>
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<400> 3898
cuucgacagc cucacggacc 20

<210> 3899
<211> 20
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<220>
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<400> 3899
cgacagccuc acggaccugg 20

<210> 3900
<211> 20
<212> RNA
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<400> 3900
gguggagcau uucaagaaga 20

<210> 3901

<211> 20
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<220>
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<400> 3901
guggagcauu ucaagaagac 20

<210> 3902
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<220>
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<400> 3902
uggagcauuu caagaagacg 20

<210> 3903
<211> 20
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<220>
<223> Synthetic oligonucleotide: Ptpn6-155

<400> 3903
uuucaagaag acggggauug 20

<210> 3904
<211> 20
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<220>
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<400> 3904
caagaagacg gggauugagg 20

<210> 3905
<211> 20
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<220>
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<400> 3905
acggggauug aggaggccuc 20

<210> 3906
<211> 20
<212> RNA
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<220>
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<400> 3906

caggcgccuu ugucuaccug 20

<210> 3907
<211> 20
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<220>
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<400> 3907
cuaugccacg agggugaaug 20

<210> 3908
<211> 20
<212> RNA
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<220>
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<400> 3908
ugacauugag aaccgagugu 20

<210> 3909
<211> 20
<212> RNA
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<220>
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<400> 3909
guuggaacug aacaagaagc 20

<210> 3910
<211> 20
<212> RNA
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<220>
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<400> 3910
gaacaagaag caggaguccg 20

<210> 3911
<211> 20
<212> RNA
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<220>
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<400> 3911
ggaguccgag gauacagcca 20

<210> 3912
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<220>
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<400> 3912
uccgaggaua cagccaaggc 20

<210> 3913
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<220>
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<400> 3913
auacagccaa ggcuggcuuc 20

<210> 3914
<211> 20
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<220>
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<400> 3914
uacagccaag gcuggcuucu 20

<210> 3915
<211> 20
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<220>
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<400> 3915
agccaaggcu ggcuucuggg 20

<210> 3916
<211> 20
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<220>
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<400> 3916
gaagaacuug caccagcguc 20

<210> 3917
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<220>
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<400> 3917
aacuugcacc agcgucugga 20

<210> 3918

<211> 20
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<220>
<223> Synthetic oligonucleotide: Ptpn6-170

<400> 3918
acuugcacca gcgucuggaa 20

<210> 3919
<211> 20
<212> RNA
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<220>
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<400> 3919
accagcgucu ggaagggcag 20

<210> 3920
<211> 20
<212> RNA
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<220>
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<400> 3920
agggcagcgg ccagagaaca 20

<210> 3921
<211> 20
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<220>
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<400> 3921
gggcagcggc cagagaacaa 20

<210> 3922
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<220>
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<400> 3922
ccacagccga gugauccugc 20

<210> 3923
<211> 20
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<220>
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<400> 3923

cacagccgag ugauccugca 20

<210> 3924
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<212> RNA
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<220>
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<400> 3924
gccgagugau ccugcaggga 20

<210> 3925
<211> 20
<212> RNA
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<220>
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<400> 3925
ccgagugauc cugcagggac 20

<210> 3926
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 3926
ggacgggaca guaacauccc 20

<210> 3927
<211> 20
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<220>
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<400> 3927
gacgggacag uaacaucccc 20

<210> 3928
<211> 20
<212> RNA
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<220>
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<400> 3928
uaagaccuac aucgccagcc 20

<210> 3929
<211> 20
<212> RNA
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<220>
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<400> 3929
aagaccuaca ucgccagcca 20

<210> 3930
<211> 20
<212> RNA
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<220>
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<400> 3930
caucgccagc caggguuguc 20

<210> 3931
<211> 20
<212> RNA
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<220>
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<400> 3931
cgccagccag gguugucugg 20

<210> 3932
<211> 20
<212> RNA
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<220>
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<400> 3932
ccaggguugu cuggaggcca 20

<210> 3933
<211> 20
<212> RNA
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<220>
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<400> 3933
aggccacggu caaugacuuc 20

<210> 3934
<211> 20
<212> RNA
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<220>
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<400> 3934
ggucaaugac uucuggcaga 20

<210> 3935

<211> 20
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<220>
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augacuucug gcagauggcg 20

<210> 3936
<211> 20
<212> RNA
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<220>
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<400> 3936
cuucuggcag auggcguggc 20

<210> 3937
<211> 20
<212> RNA
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<220>
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<400> 3937
caucgucaug accacccgag 20

<210> 3938
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<220>
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<400> 3938
cgucaugacc acccgagagg 20

<210> 3939
<211> 20
<212> RNA
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<220>
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<400> 3939
accacccgag agguggagaa 20

<210> 3940
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<220>
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cccgagaggu ggagaaaggc 20

<210> 3941
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<220>
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<400> 3941
augcguccca uacuggcccg 20

<210> 3942
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<220>
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<400> 3942
cgucccauac uggcccgagg 20

<210> 3943
<211> 20
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<213> Artificial Sequence

<220>
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<400> 3943
gucccauacu ggcccgaggu 20

<210> 3944
<211> 20
<212> RNA
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<220>
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<400> 3944
gugggcaugc agcgugcuua 20

<210> 3945
<211> 20
<212> RNA
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<220>
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<400> 3945
ugggcaugca gcgugcuuau 20

<210> 3946
<211> 20
<212> RNA
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<220>
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<400> 3946
cccuacucug ugaccaacug 20

<210> 3947
<211> 20
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<220>
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<400> 3947
ccuacucugu gaccaacugc 20

<210> 3948
<211> 20
<212> RNA
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<220>
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<400> 3948
cuacucugug accaacugcg 20

<210> 3949
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-201

<400> 3949
auacaaacuc cguaccuuac 20

<210> 3950
<211> 20
<212> RNA
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<220>
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<400> 3950
uaccuuacag gucuccccgc 20

<210> 3951
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 3951
gagaccugau ucgggagauc 20

<210> 3952

<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-204

<400> 3952
ggcauuacca guaccugagc 20

<210> 3953
<211> 20
<212> RNA
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<220>
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<400> 3953
uaccugagcu ggcccgacca 20

<210> 3954
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 3954
accugagcug gcccgaccau 20

<210> 3955
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 3955
ccugagcugg cccgaccaug 20

<210> 3956
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 3956
caugggucc ccagugagcc 20

<210> 3957
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 3957

augggguccc cagugagccu 20

<210> 3958
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-210

<400> 3958
uggggucccc agugagccug 20

<210> 3959
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 3959
ggggucccca gugagccugg 20

<210> 3960
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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uccuggacca gaucaaccag 20

<210> 3962
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<400> 3962
ggaccagauc aaccagcggc 20

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caggaaaguc ugccucacgc 20

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cauugucauc gacaugcuca 20

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cauggagaac aucuccacca 20

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cauccagaag accauccaga 20

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agaagaccau ccagauggug 20

<210> 3969

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gaagaccauc cagauggugc 20

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gauggugcgg gcgcagcgcu 20

<210> 3971
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auggugcggg cgcagcgcuc 20

<210> 3972
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gcgggcgcag cgcucgggca 20

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gcgcucgggc auggugcaga 20

<210> 3974
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cucgggcaug gugcagacgg 20

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ugaaaccacu aagaagaagc 20

<210> 3977
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aaccacuaag aagaagcugg 20

<210> 3978
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aagggccagg agucggagua 20

<210> 3979
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agggccagga gucggaguac 20

<210> 3980
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caugaagaau gcccaugcca 20

<210> 3981
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accugcacac uaagaacaag 20

<210> 3982
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<210> 3983
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<210> 3984
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<400> 3984
aggagaaagu gaagaagcag 20

<210> 3985
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<400> 3985
gaagcagcgg ucagcagaca 20

<210> 3986

<211> 20
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agcagacaag gagaagagca 20

<210> 3987
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<220>
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gcagacaagg agaagagcaa 20

<210> 3988
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<400> 3988
agagcaaggg uucccucaag 20

<210> 3989
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<220>
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<400> 3989
gguggacgcu acacagu 17

<210> 3990
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<220>
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<400> 3990
ggacgcuaca caguggg 17

<210> 3991
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gaccuucgac agccuca 17

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<400> 3993
cgacagccuc acggacc 17

<210> 3994
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<220>
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<400> 3994
cagccucacg gaccugg 17

<210> 3995
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<400> 3995
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<210> 3996
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<400> 3996
gagcauuuca agaagac 17

<210> 3997
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<400> 3997
agcauuucaa gaagacg 17

<210> 3998
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<220>
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<400> 3998
caagaagacg gggauug 17

<210> 3999
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<400> 3999
gaagacgggg auugagg 17

<210> 4000
<211> 17
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<400> 4000
gggauugagg aggccuc 17

<210> 4001
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<400> 4001
gcgccuuugu cuaccug 17

<210> 4002
<211> 17
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<220>
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<400> 4002
ugccacgagg gugaaug 17

<210> 4003

<211> 17
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<400> 4003
cauugagaac cgagugu 17

<210> 4004
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<400> 4004
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<210> 4005
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<400> 4005
caagaagcag gaguccg 17

<210> 4006
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<400> 4006
guccgaggau acagcca 17

<210> 4007
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<400> 4007
gaggauacag ccaaggc 17

<210> 4008
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<400> 4008

cagccaaggc uggcuuc 17

<210> 4009
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agccaaggcu ggcuucu 17

<210> 4010
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caaggcuggc uucuggg 17

<210> 4011
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<210> 4012
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<210> 4013
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<400> 4013
ugcaccagcg ucuggaa 17

<210> 4014
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<220>
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<400> 4014
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<210> 4015
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<220>
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<400> 4015
gcagcggcca gagaaca 17

<210> 4016
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<220>
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cagcggccag agaacaa 17

<210> 4017
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<400> 4017
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<210> 4018
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<220>
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agccgaguga uccugca 17

<210> 4019
<211> 17
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<400> 4019
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<210> 4020

<211> 17
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<400> 4020
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<210> 4021
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<400> 4021
cgggacagua acauccc 17

<210> 4022
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<400> 4022
gggacaguaa caucccc 17

<210> 4023
<211> 17
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<400> 4023
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<210> 4024
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<400> 4024
accuacaucg ccagcca 17

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<400> 4025

cgccagccag gguuguc 17

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<210> 4027
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<400> 4027
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<210> 4028
<211> 17
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<210> 4029
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<400> 4029
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<210> 4030
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<400> 4030
acuucuggca gauggcg 17

<210> 4031
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cuggcagaug gcguggc 17

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cgucaugacc acccgag 17

<210> 4033
<211> 17
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<210> 4034
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acccgagagg uggagaa 17

<210> 4035
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<210> 4036
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acaaaugcgu cccauac 17

<210> 4037

<211> 17
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cgucccauac uggcccg 17

<210> 4038
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<400> 4038
cccauacugg cccgagg 17

<210> 4039
<211> 17
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<220>
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<400> 4039
ccauacuggc ccgaggu 17

<210> 4040
<211> 17
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<220>
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<400> 4040
ggcaugcagc gugcuua 17

<210> 4041
<211> 17
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<220>
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<400> 4041
gcaugcagcg ugcuuau 17

<210> 4042
<211> 17
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<220>
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<400> 4042

uacucuguga ccaacug 17

<210> 4043
<211> 17
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<220>
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<400> 4043
acucugugac caacugc 17

<210> 4044
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<220>
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<400> 4044
cucugugacc aacugcg 17

<210> 4045
<211> 17
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<220>
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<400> 4045
caaacuccgu accuuac 17

<210> 4046
<211> 17
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<220>
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<400> 4046
cuuacagguc uccccgc 17

<210> 4047
<211> 17
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<220>
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<400> 4047
accugauucg ggagauc 17

<210> 4048
<211> 17
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<220>
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<400> 4048
auuaccagua ccugagc 17

<210> 4049
<211> 17
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<220>
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<400> 4049
cugagcuggc ccgacca 17

<210> 4050
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<220>
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<400> 4050
ugagcuggcc cgaccau 17

<210> 4051
<211> 17
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<220>
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<400> 4051
gagcuggccc gaccaug 17

<210> 4052
<211> 17
<212> RNA
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<220>
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<400> 4052
ggggucccca gugagcc 17

<210> 4053
<211> 17
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<220>
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<400> 4053
ggguccccag ugagccu 17

<210> 4054

<211> 17
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<220>
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<400> 4054
ggucccagu gagccug 17

<210> 4055
<211> 17
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<220>
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<400> 4055
gucccagug agccugg 17

<210> 4056
<211> 17
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<220>
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<400> 4056
ggguguccuc agcuucc 17

<210> 4057
<211> 17
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<220>
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<400> 4057
uggaccagau caaccag 17

<210> 4058
<211> 17
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<220>
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<400> 4058
ccagaucaac cagcggc 17

<210> 4059
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<220>
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<400> 4059

gaaagucugc cucacgc 17

<210> 4060
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<220>
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<400> 4060
aaagucugcc ucacgca 17

<210> 4061
<211> 17
<212> RNA
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<220>
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<400> 4061
gccggcaucg gccgcac 17

<210> 4062
<211> 17
<212> RNA
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<220>
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<400> 4062
ugucaucgac augcuca 17

<210> 4063
<211> 17
<212> RNA
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<220>
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<400> 4063
ggagaacauc uccacca 17

<210> 4064
<211> 17
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<220>
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<400> 4064
ccagaagacc auccaga 17

<210> 4065
<211> 17
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<220>
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<400> 4065
agaccaucca gauggug 17

<210> 4066
<211> 17
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<220>
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<400> 4066
gaccauccag auggugc 17

<210> 4067
<211> 17
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<220>
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<400> 4067
ggugcgggcg cagcgcu 17

<210> 4068
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-320

<400> 4068
gugcgggcgc agcgcuc 17

<210> 4069
<211> 17
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<220>
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<400> 4069
ggcgcagcgc ucgggca 17

<210> 4070
<211> 17
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<220>
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<400> 4070
cucgggcaug gugcaga 17

<210> 4071

<211> 17
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<220>
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<400> 4071
gggcauggug cagacgg 17

<210> 4072
<211> 17
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<220>
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<400> 4072
guacaaguuc aucuacg 17

<210> 4073
<211> 17
<212> RNA
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<220>
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<400> 4073
aaccacuaag aagaagc 17

<210> 4074
<211> 17
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<220>
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<400> 4074
cacuaagaag aagcugg 17

<210> 4075
<211> 17
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<220>
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<400> 4075
gcagaagggc caggagu 17

<210> 4076
<211> 17
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<220>
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<400> 4076

ggccaggagu cggagua 17

<210> 4077
<211> 17
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<220>
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<400> 4077
gccaggaguc ggaguac 17

<210> 4078
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-330

<400> 4078
gaagaaugcc caugcca 17

<210> 4079
<211> 17
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<220>
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<400> 4079
ugcacacuaa gaacaag 17

<210> 4080
<211> 17
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<220>
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<400> 4080
gcacacuaag aacaaga 17

<210> 4081
<211> 17
<212> RNA
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<220>
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<400> 4081
cacuaagaac aagaggg 17

<210> 4082
<211> 17
<212> RNA
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<220>
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<400> 4082
agaaagugaa gaagcag 17

<210> 4083
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-335

<400> 4083
gcagcgguca gcagaca 17

<210> 4084
<211> 17
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<220>
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<400> 4084
agacaaggag aagagca 17

<210> 4085
<211> 17
<212> RNA
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<220>
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<400> 4085
gacaaggaga agagcaa 17

<210> 4086
<211> 17
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<210> 4087
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<210> 4088

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<210> 4090
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<210> 4091
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<210> 4092
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<400> 4093

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<210> 4094
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<210> 4096
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<210> 4101
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<400> 4101
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<400> 4103
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<210> 4105

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<400> 4107
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<210> 4113
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<210> 4114
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<400> 4114
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<210> 4115
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<400> 4118
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<210> 4128
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<400> 4129
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<210> 4134
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<210> 4135
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<210> 4136
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<210> 4137
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<210> 4138
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<210> 4139

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<210> 4140
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<210> 4145
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<400> 4145
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<210> 4146
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<400> 4146
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<210> 4156

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<220>
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<400> 4166
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<210> 4169
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<210> 4170
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<210> 4171
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<210> 4172
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<210> 4173
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<210> 4174
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<210> 4175
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<210> 4176
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<210> 4177
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<210> 4178
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<210> 4182
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<400> 4182
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<210> 4183
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<210> 4184
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<210> 4185
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<210> 4186
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<210> 4187
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<400> 4187
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<220>
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<220>
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<210> 4192
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<220>
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<210> 4193
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<400> 4193
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<210> 4194
<211> 17
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<220>
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<400> 4194

gcugguugau cuggucc 17

<210> 4195
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<210> 4196
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<210> 4197
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<220>
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<210> 4198
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<210> 4199
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<210> 4200
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<210> 4201
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<400> 4201
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<210> 4203
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<210> 4204
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<210> 4205
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<400> 4205
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<210> 4206

<211> 17
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<220>
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<400> 4206
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<210> 4207
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<210> 4208
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<210> 4209
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<210> 4306
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<400> 4332
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<210> 4334
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<400> 4336
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<400> 4338
ucucccucc auacagguca 20

<210> 4339
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<400> 4339
auacagguca uagaaauccc 20

<210> 4340
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aaaucccug aguucuggau 20

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<210> 4346
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<210> 4347
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<210> 4348
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<220>
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<400> 4348
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uggacaccuc ggcccuugag 20

<210> 4350
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<220>
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<210> 4351
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<400> 4351
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<210> 4352
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<400> 4352
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<400> 4353
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<400> 4356
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<220>
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<210> 4363
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<220>
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<400> 4366
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<220>
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<210> 4368
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<400> 4368
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gaguucugga uccgaau 17

<210> 4370
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<210> 4371
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<210> 4372
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<210> 4373
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<210> 4374
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<210> 4375
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<220>
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cguggacacc ucggccc 17

<210> 4376

<211> 17
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<220>
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<210> 4377
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<210> 4383
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<210> 4384
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<210> 4385
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<220>
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<210> 4386
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<210> 4387
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<220>
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<210> 4388
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gguggagcau uucaagaaga 20

<210> 4389
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<210> 4390
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<220>
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<210> 4391
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<220>
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<210> 4392
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<220>
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<210> 4393

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<220>
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<210> 4394
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<220>
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<220>
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<210> 4396
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<220>
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<210> 4397
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<220>
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<210> 4398
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<220>
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<400> 4398

uguuggaacu gaacaagaag 20

<210> 4399
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<210> 4400
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<220>
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<400> 4400
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<210> 4401
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<220>
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<400> 4401
ugaacaagaa gcaggagucc 20

<210> 4402
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<220>
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<400> 4402
gauacagcca aggcuggcuu 20

<210> 4403
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<220>
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auacagccaa ggcuggcuuc 20

<210> 4404
<211> 20
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<220>
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<210> 4405
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<220>
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<210> 4406
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<220>
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<210> 4407
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<220>
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<400> 4407
ggcuggcuuc ugggaggagu 20

<210> 4408
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<220>
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guuugcagaa gcaggaggug 20

<210> 4409
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<220>
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<210> 4410

<211> 20
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<220>
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gaagaacuug caccagcguc 20

<210> 4411
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<220>
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gaacuugcac cagcgucugg 20

<210> 4412
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<220>
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gcgucuggaa gggcagcggc 20

<210> 4413
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<220>
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<400> 4413
gucuggaagg gcagcggcca 20

<210> 4414
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<220>
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<400> 4414
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<210> 4415
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<400> 4415

agcggccaga gaacaagggc 20

<210> 4416
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acaagggcaa gaaccgcuac 20

<210> 4417
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<220>
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<210> 4418
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<220>
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<400> 4418
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<210> 4419
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<220>
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<400> 4419
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<210> 4420
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<220>
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<210> 4421
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<220>
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<400> 4421
gggacgggac aguaacaucc 20

<210> 4422
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<220>
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<400> 4422
accagcugcu aggcccugau 20

<210> 4423
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<220>
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<400> 4423
cuaagaccua caucgccagc 20

<210> 4424
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<220>
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<400> 4424
acaucgccag ccaggguugu 20

<210> 4425
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<220>
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caucgccagc caggguuguc 20

<210> 4426
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<220>
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<210> 4427

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<210> 4428
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<220>
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<400> 4428
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<210> 4429
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<220>
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<400> 4429
cgugucaucg ucaugaccac 20

<210> 4430
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<220>
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<400> 4430
ugucaucguc augaccaccc 20

<210> 4431
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<220>
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<400> 4431
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<210> 4432
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<220>
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<400> 4432

cgucaugacc acccgagagg 20

<210> 4433
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<220>
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<400> 4433
ucaugaccac ccgagaggug 20

<210> 4434
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<220>
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<400> 4434
caaaugcguc ccauacuggc 20

<210> 4435
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<220>
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<400> 4435
gcgucccaua cuggcccgag 20

<210> 4436
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<220>
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<400> 4436
ggugggcaug cagcgugcuu 20

<210> 4437
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<220>
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<400> 4437
gcccuacucu gugaccaacu 20

<210> 4438
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<220>
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<210> 4439
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<220>
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<210> 4440
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<220>
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cuacucugug accaacugcg 20

<210> 4441
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<220>
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<400> 4441
cugcggggag caugacacaa 20

<210> 4442
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<220>
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<400> 4442
guaccuuaca ggucuccccg 20

<210> 4443
<211> 20
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<220>
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<400> 4443
agaucuggca uuaccaguac 20

<210> 4444

<211> 20
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<220>
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<400> 4444
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<210> 4445
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<220>
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<210> 4446
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<220>
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<210> 4447
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<220>
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<210> 4448
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<220>
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<210> 4449
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<220>
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<400> 4449

augggguccc cagugagccu 20

<210> 4450
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<220>
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<400> 4450
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<210> 4451
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<220>
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uggaccagau caaccagcgg 20

<210> 4452
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<220>
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ggaccagauc aaccagcggc 20

<210> 4453
<211> 20
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<220>
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gcaggaaagu cugccucacg 20

<210> 4454
<211> 20
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<220>
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ucauugucau cgacaugcuc 20

<210> 4455
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<220>
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cauugucauc gacaugcuca 20

<210> 4456
<211> 20
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<220>
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<400> 4456
uugucaucga caugcucaug 20

<210> 4457
<211> 20
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<220>
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<400> 4457
uggacuguga cauugacauc 20

<210> 4458
<211> 20
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<220>
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cagaagacca uccagauggu 20

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agauggugcg ggcgcagcgc 20

<210> 4460
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<220>
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<400> 4460
agcgcucggg cauggugcag 20

<210> 4461

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gcgcucgggc auggugcaga 20

<210> 4462
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<220>
<223> Synthetic oligonucleotide: Ptpn6-714

<400> 4462
cguggccauc gcccaguuca 20

<210> 4463
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cccaguucau ugaaaccacu 20

<210> 4464
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aguucauuga aaccacuaag 20

<210> 4465
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<400> 4465
uugaaaccac uaagaagaag 20

<210> 4466
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<400> 4466

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<210> 4467
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gaagggccag gagucggagu 20

<210> 4468
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aagggccagg agucggagua 20

<210> 4469
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agggccagga gucggaguac 20

<210> 4470
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<220>
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<400> 4470
acaucaccua ucccccagcc 20

<210> 4471
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ucaccuaucc cccagccaug 20

<210> 4472
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uguaugagaa ccugcacacu 20

<210> 4473
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<220>
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agaaccugca cacuaagaac 20

<210> 4474
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<210> 4475
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<220>
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accugcacac uaagaacaag 20

<210> 4476
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<220>
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<400> 4476
ccugcacacu aagaacaaga 20

<210> 4477
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<220>
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ugcacacuaa gaacaagagg 20

<210> 4478

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gcacacuaag aacaagaggg 20

<210> 4479
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<210> 4480
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<210> 4481
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<220>
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acaagaggga ggagaaagug 20

<210> 4482
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agaagcagcg gucagcagac 20

<210> 4483
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<220>
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<400> 4483

gaagcagcgg ucagcagaca 20

<210> 4484
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<210> 4487
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<220>
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<210> 4488
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<220>
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aagagcaagg guucccucaa 20

<210> 4489
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<220>
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<210> 4490
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<220>
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<210> 4491
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<220>
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ucaagaagac ggggauu 17

<210> 4492
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<220>
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<400> 4492
caagaagacg gggauug 17

<210> 4493
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<220>
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<400> 4493
gcuacacagu ggguggu 17

<210> 4494
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<220>
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<400> 4494
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<210> 4495

<211> 17
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<220>
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acagccucac ggaccug 17

<210> 4496
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<220>
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cagccucacg gaccugg 17

<210> 4497
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<220>
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accuggugga gcauuuc 17

<210> 4498
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<220>
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<400> 4498
uggagcauuu caagaag 17

<210> 4499
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<220>
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<400> 4499
ggagcauuuc aagaaga 17

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<220>
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<210> 4501
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<400> 4501
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<210> 4502
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<220>
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<400> 4502
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<210> 4503
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<220>
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<400> 4503
ggugaaugcg gcugaca 17

<210> 4504
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<400> 4504
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<210> 4505
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<210> 4506
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<210> 4507
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<210> 4508
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<400> 4508
agaaccgagu guuggaa 17

<210> 4509
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<400> 4509
gaguguugga acugaac 17

<210> 4510
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<220>
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<400> 4510
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<400> 4511
ggaacugaac aagaagc 17

<210> 4512

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gaacaagaag caggagu 17

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<400> 4513
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<210> 4514
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<400> 4514
acagccaagg cuggcuu 17

<210> 4515
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<400> 4515
cagccaaggc uggcuuc 17

<210> 4516
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<220>
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<400> 4516
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<210> 4517
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<400> 4517

ccaaggcugg cuucugg 17

<210> 4518
<211> 17
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<220>
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<400> 4518
caaggcuggc uucuggg 17

<210> 4519
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<220>
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<400> 4519
uggcuucugg gaggagu 17

<210> 4520
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<220>
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<210> 4521
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<220>
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<400> 4521
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<210> 4522
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<220>
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<400> 4522
agaacuugca ccagcgu 17

<210> 4523
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<220>
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<400> 4523
gaacuugcac cagcguc 17

<210> 4524
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<220>
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<400> 4524
cuugcaccag cgucugg 17

<210> 4525
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<220>
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<400> 4525
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<220>
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<210> 4527
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<220>
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<210> 4528
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<220>
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ggccagagaa caagggc 17

<210> 4529

<211> 17
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<220>
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<400> 4529
agggcaagaa ccgcuac 17

<210> 4530
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<220>
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acagccgagu gauccug 17

<210> 4531
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<210> 4532
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<220>
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cgagugaucc ugcaggg 17

<210> 4533
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<220>
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gagugauccu gcaggga 17

<210> 4534
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<220>
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<400> 4534

acgggacagu aacaucc 17

<210> 4535
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ccagcugcua ggcccug 17

<210> 4536
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agcugcuagg cccugau 17

<210> 4537
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<400> 4537
agaccuacau cgccagc 17

<210> 4538
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<220>
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ucgccagcca ggguugu 17

<210> 4539
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<220>
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<400> 4539
cgccagccag gguuguc 17

<210> 4540
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<220>
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ucuggcagau ggcgugg 17

<210> 4541
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cuggcagaug gcguggc 17

<210> 4542
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<220>
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<400> 4542
ggcagauggc guggcag 17

<210> 4543
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<400> 4543
gucaucguca ugaccac 17

<210> 4544
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<220>
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<400> 4544
caucgucaug accaccc 17

<210> 4545
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<220>
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<400> 4545
ucaugaccac ccgagag 17

<210> 4546

<211> 17
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<220>
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caugaccacc cgagagg 17

<210> 4547
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<220>
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<400> 4547
ugaccacccg agaggug 17

<210> 4548
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<220>
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<400> 4548
augcguccca uacuggc 17

<210> 4549
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<220>
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<400> 4549
ucccauacug gcccgag 17

<210> 4550
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<220>
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<400> 4550
gggcaugcag cgugcuu 17

<210> 4551
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<220>
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<400> 4551

cuacucugug accaacu 17

<210> 4552
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<220>
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<400> 4552
uacucuguga ccaacug 17

<210> 4553
<211> 17
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<220>
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<400> 4553
acucugugac caacugc 17

<210> 4554
<211> 17
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<220>
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<400> 4554
cucugugacc aacugcg 17

<210> 4555
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<400> 4555
cggggagcau gacacaa 17

<210> 4556
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<220>
<223> Synthetic oligonucleotide: Ptpn6-808

<400> 4556
ccuuacaggu cuccccg 17

<210> 4557
<211> 17
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<220>
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<400> 4557
ucuggcauua ccaguac 17

<210> 4558
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<220>
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<400> 4558
ccugagcugg cccgacc 17

<210> 4559
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<400> 4559
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<210> 4560
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<220>
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<400> 4560
cgaccauggg gucccca 17

<210> 4561
<211> 17
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<400> 4561
uggggucccc agugagc 17

<210> 4562
<211> 17
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<220>
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ggggucccca gugagcc 17

<210> 4563

<211> 17
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<220>
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<400> 4563
gggucccag ugagccu 17

<210> 4564
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<220>
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<400> 4564
gggguguccu cagcuuc 17

<210> 4565
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<220>
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<400> 4565
accagaucaa ccagcgg 17

<210> 4566
<211> 17
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<220>
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<400> 4566
ccagaucaac cagcggc 17

<210> 4567
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<400> 4567
ggaaagucug ccucacg 17

<210> 4568
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<220>
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<400> 4568

uugucaucga caugcuc 17

<210> 4569
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<220>
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ugucaucgac augcuca 17

<210> 4570
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<220>
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<400> 4570
ucaucgacau gcucaug 17

<210> 4571
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<220>
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<400> 4571
acugugacau ugacauc 17

<210> 4572
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<220>
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<400> 4572
aagaccaucc agauggu 17

<210> 4573
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<220>
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<400> 4573
uggugcgggc gcagcgc 17

<210> 4574
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<220>
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<400> 4574
gcucgggcau ggugcag 17

<210> 4575
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<400> 4575
cucgggcaug gugcaga 17

<210> 4576
<211> 17
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<220>
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<400> 4576
ggccaucgcc caguuca 17

<210> 4577
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<400> 4577
aguucauuga aaccacu 17

<210> 4578
<211> 17
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<400> 4578
ucauugaaac cacuaag 17

<210> 4579
<211> 17
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<400> 4579
aaaccacuaa gaagaag 17

<210> 4580

<211> 17
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aaccacuaag aagaagc 17

<210> 4581
<211> 17
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<400> 4581
cgcagaaggg ccaggag 17

<210> 4582
<211> 17
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<220>
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gcagaagggc caggagu 17

<210> 4583
<211> 17
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<210> 4709
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<210> 4719
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<210> 4724
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<220>
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<210> 4725
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<210> 4726
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<210> 4727
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<210> 4728
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<210> 4729
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<210> 4731
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<220>
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<210> 4732

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<220>
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<210> 4733
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<210> 4734
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<210> 4735
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<220>
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<400> 4735
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<210> 4736
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<210> 4737
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<400> 4737

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<210> 4738
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<220>
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<210> 4739
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<220>
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<400> 4739
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<210> 4740
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<220>
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<400> 4740
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<210> 4741
<211> 20
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<220>
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<400> 4741
ugagguguug ugagcuaccc 20

<210> 4742
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<220>
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<400> 4742
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<210> 4743
<211> 20
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<220>
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<400> 4743
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<220>
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<400> 4744
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<210> 4745
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<220>
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<400> 4745
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<210> 4746
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<220>
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<400> 4746
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<210> 4747
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<220>
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<400> 4747
ccguaggcgg aaaccaa 17

<210> 4748
<211> 17
<212> RNA
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<220>
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<400> 4748
cggcggggua uugggua 17

<210> 4749

<211> 17
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<220>
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<400> 4749
cguaggcgga aaccaaa 17

<210> 4750
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<220>
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<400> 4750
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<210> 4751
<211> 20
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<220>
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<400> 4751
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<210> 4752
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<220>
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<400> 4752
gggauuuucc uuaggcccuu 20

<210> 4753
<211> 20
<212> RNA
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<220>
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<400> 4753
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<210> 4754
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<220>
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<400> 4754

guuugucccu gcagugccau 20

<210> 4755
<211> 20
<212> RNA
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<220>
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<400> 4755
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<210> 4756
<211> 20
<212> RNA
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<220>
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<400> 4756
gcagggaagc uggccgcugu 20

<210> 4757
<211> 20
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<220>
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<400> 4757
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<210> 4758
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<220>
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<400> 4758
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<210> 4759
<211> 20
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<220>
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<400> 4759
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<210> 4760
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<220>
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<400> 4760
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<210> 4761
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<220>
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<400> 4761
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<210> 4762
<211> 20
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<220>
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<400> 4762
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<210> 4763
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<210> 4764
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<220>
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<210> 4765
<211> 20
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<220>
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<210> 4766

<211> 20
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<220>
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<400> 4766
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<210> 4767
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<220>
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gcauuucuac uuccagccuc 20

<210> 4768
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<220>
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<400> 4768
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<210> 4769
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<220>
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<210> 4770
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<210> 4771
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<220>
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<400> 4771

gcgggaaggg gaaguucaua 20

<210> 4772
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gcucaagcug acagagcggc 20

<210> 4773
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<220>
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<400> 4773
ggugcccggg acuuacccac 20

<210> 4774
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<210> 4775
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<210> 4776
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<210> 4777
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<210> 4778
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<210> 4779
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<400> 4779
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<210> 4780
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<210> 4781
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<220>
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gagguguugu gagcuaccca 20

<210> 4782
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<220>
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<400> 4782
gcagaggagc augagugagc 20

<210> 4783

<211> 20
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<220>
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<210> 4784
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<220>
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gaggagcaug agugagccgg 20

<210> 4785
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<220>
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<400> 4785
gauccugccu gccaggccaa 20

<210> 4786
<211> 20
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<220>
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<400> 4786
gacuaauagu cuccaggaaa 20

<210> 4787
<211> 20
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<220>
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<400> 4787
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<210> 4788
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<400> 4788

gccucugacu gcuauguuug 20

<210> 4789
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<400> 4789
gagcggcggg guauugggua 20

<210> 4790
<211> 20
<212> RNA
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<220>
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<400> 4790
gguguuguga gcuacccagg 20

<210> 4791
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<220>
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<400> 4791
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<210> 4792
<211> 20
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<220>
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<400> 4792
gaaguuggcu ggacguggga 20

<210> 4793
<211> 20
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<220>
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<400> 4793
gcccaguucc ucagagaagg 20

<210> 4794
<211> 20
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<220>
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<400> 4794
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<210> 4795
<211> 20
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<220>
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<400> 4795
gucuccagga aaaggacagg 20

<210> 4796
<211> 20
<212> RNA
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<220>
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<400> 4796
ggcacugcag ggacaaaccc 20

<210> 4797
<211> 20
<212> RNA
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<220>
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<400> 4797
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<210> 4798
<211> 20
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<220>
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<400> 4798
gcaggcccgc cugcuggucc 20

<210> 4799
<211> 20
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<220>
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<400> 4799
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<210> 4800

<211> 20
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<220>
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gguccagggc cgccuucccc 20

<210> 4801
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<212> RNA
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<220>
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<210> 4802
<211> 20
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<220>
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<400> 4802
ggcuggaagu agaaaugcaa 20

<210> 4803
<211> 20
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<220>
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<400> 4803
gagccaccug gagcuccacc 20

<210> 4804
<211> 20
<212> RNA
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<220>
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<400> 4804
gcagagggcc gcaggggcg 20

<210> 4805
<211> 20
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<220>
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<400> 4805

ggaggggaa gccacggcag 20

<210> 4806
<211> 20
<212> RNA
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<220>
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<400> 4806
gaaugaauga ugcaggggaa 20

<210> 4807
<211> 20
<212> RNA
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<220>
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<400> 4807
ggaaaaggac aggugggcg 20

<210> 4808
<211> 20
<212> RNA
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<220>
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<400> 4808
ggcagagggc cgcaggggc 20

<210> 4809
<211> 20
<212> RNA
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<220>
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<400> 4809
gugaaaggaa acaaagaaga 20

<210> 4810
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<220>
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<400> 4810
gcaggggaaa gggaagugaa 20

<210> 4811
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<220>
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<400> 4811
gcuguacucc cgcuuug 17

<210> 4812
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<220>
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<400> 4812
gccgcugugg gcggucu 17

<210> 4813
<211> 17
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<220>
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<400> 4813
gagagaugcu gucccgu 17

<210> 4814
<211> 17
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<220>
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<400> 4814
ggagagguuu cccccau 17

<210> 4815
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<220>
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<400> 4815
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<210> 4816
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<220>
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<400> 4816
gggaagcugg ccgcugu 17

<210> 4817

<211> 17
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<220>
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<400> 4817
gaggaacugg gcuguua 17

<210> 4818
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<220>
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<400> 4818
ggguaccucc uucucug 17

<210> 4819
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<220>
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<400> 4819
guugcucuuc cucagcc 17

<210> 4820
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<220>
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<400> 4820
ggcaggcagg aucgagg 17

<210> 4821
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<220>
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<400> 4821
ggcggcccug gaccagc 17

<210> 4822
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<220>
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<400> 4822

ggcuccuccu cucccgg 17

<210> 4823
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<220>
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<400> 4823
gguggcuccu ccucucc 17

<210> 4824
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<220>
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<400> 4824
gcccuggacc agcaggc 17

<210> 4825
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<220>
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<400> 4825
gcuucugccu ccugcuu 17

<210> 4826
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<220>
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<400> 4826
gcuccaggug gagcucc 17

<210> 4827
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<220>
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<400> 4827
ggcccuggac cagcagg 17

<210> 4828
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<220>
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<400> 4828
guggcuccuc cucuccc 17

<210> 4829
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<220>
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<400> 4829
gcggcggggu auugggu 17

<210> 4830
<211> 17
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<210> 5162
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<210> 5164
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<210> 5165
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<210> 5181
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<210> 5182
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<210> 5185
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<210> 5189
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<210> 5191

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<210> 5193
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<210> 5194
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<210> 5195
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<210> 5196
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<210> 5198
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<210> 5199
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<400> 5570

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<210> 5571
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ggaaguagaa augcaaugga 20

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<210> 5580
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<210> 5581
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<210> 5582

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<220>
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<210> 5583
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<210> 5584
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<210> 5585
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<220>
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<210> 5586
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<220>
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<210> 5587
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<220>
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<210> 5588
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<210> 5589
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<220>
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<210> 5592
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<210> 5593
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<210> 5594
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<220>
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<210> 5595
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<210> 5596
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<210> 5597
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<220>
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<210> 5598
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<220>
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<210> 5599

<211> 20
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<220>
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<210> 5600
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<220>
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<210> 5601
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<220>
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<210> 5602
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<220>
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ucacguucac acacgucgga 20

<210> 5603
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<220>
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<400> 5603
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<210> 5604
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<220>
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<400> 5604

ucccucccuc caaaacuaac 20

<210> 5605
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<220>
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<210> 5606
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<220>
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<210> 5607
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<220>
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<210> 5608
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<220>
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<210> 5609
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<220>
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<210> 5610
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<220>
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<220>
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<210> 5612
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<220>
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<210> 5613
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<220>
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<210> 5614
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<220>
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<210> 5616

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<220>
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<210> 5618
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<220>
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<220>
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<210> 5620
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<220>
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<210> 5621
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<220>
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<210> 5622
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<220>
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<220>
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<220>
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<210> 5635
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<220>
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<210> 5637
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agucuccagg aaaaggacag 20

<210> 5638
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<220>
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<400> 5638

gucuccagga aaaggacagg 20

<210> 5639
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<220>
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<210> 5641
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<210> 5644
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<210> 5645
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<220>
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<210> 5647
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<220>
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<210> 5648
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<220>
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<210> 5649
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<210> 5652
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<220>
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<210> 5654
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<220>
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<210> 5655
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<400> 5655

ccgggagagg aggagccacc 20

<210> 5656
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<210> 5657
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<220>
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<210> 5658
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ccaccuggag cucaagcuga 20

<210> 5659
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<220>
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gagcucaagc ugacagagcg 20

<210> 5660
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<220>
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agcucaagcu gacagagcgg 20

<210> 5661
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<220>
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gcugacagag cggcggggua 20

<210> 5662
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<220>
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<400> 5662
cagagcggcg ggguauuggg 20

<210> 5663
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<220>
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<400> 5663
agagcggcgg gguauugggu 20

<210> 5664
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<220>
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gagcggcggg guauugggua 20

<210> 5665
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<220>
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agcggcgggg uauuggguag 20

<210> 5666
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<220>
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uauuggguag gggaacagac 20

<210> 5667

<211> 20
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<220>
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auuggguagg ggaacagacc 20

<210> 5668
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<220>
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<400> 5668
agaccaggaa guaacccugg 20

<210> 5669
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<220>
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<400> 5669
accaggaagu aacccuggcu 20

<210> 5670
<211> 20
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<220>
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<400> 5670
ccaggaagua acccuggcug 20

<210> 5671
<211> 20
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<220>
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<400> 5671
ggaaguaacc cuggcugagg 20

<210> 5672
<211> 20
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<220>
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<400> 5672

uggcugagga agagcaacca 20

<210> 5673
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<220>
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<400> 5673
ggcugaggaa gagcaaccaa 20

<210> 5674
<211> 20
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<220>
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<400> 5674
gcugaggaag agcaaccaau 20

<210> 5675
<211> 20
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<220>
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<400> 5675
cugaggaaga gcaaccaaug 20

<210> 5676
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<220>
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<400> 5676
ugaggaagag caaccaaugg 20

<210> 5677
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<220>
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<400> 5677
ugggggaaac cucuccguag 20

<210> 5678
<211> 20
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<220>
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<400> 5678
gggggaaacc ucuccguagg 20

<210> 5679
<211> 20
<212> RNA
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<220>
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<400> 5679
cucuccguag gcggaaacca 20

<210> 5680
<211> 20
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<220>
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<210> 5681
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<220>
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<400> 5681
ggcggaaacc aaagggccua 20

<210> 5682
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<220>
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<400> 5682
ucccuaacag cccaguuccu 20

<210> 5683
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<220>
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<400> 5683
ccuaacagcc caguuccuca 20

<210> 5684

<211> 20
<212> RNA
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<220>
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<400> 5684
aacagcccag uuccucagag 20

<210> 5685
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<220>
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<400> 5685
acagcccagu uccucagaga 20

<210> 5686
<211> 17
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<220>
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<400> 5686
gucugauguu gggaagu 17

<210> 5687
<211> 17
<212> RNA
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<220>
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<400> 5687
aaguuggcug gacgugg 17

<210> 5688
<211> 17
<212> RNA
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<220>
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<400> 5688
gcuauguuug agguguu 17

<210> 5689
<211> 17
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<220>
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<400> 5689

cuguugaaug aaugaug 17

<210> 5690
<211> 17
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<220>
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<400> 5690
gggggacagg uccuaag 17

<210> 5691
<211> 17
<212> RNA
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<220>
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caggggaaaa uguuaaa 17

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ugggaccccg auggugc 17

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ggaaaaggac agguggg 17

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<210> 5805
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<210> 5807
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<210> 5808
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<210> 5813
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<210> 5814
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ggagaggagg agccacc 17

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<210> 6036
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<210> 6043
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<210> 6045
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<210> 6052
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<210> 6053
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<210> 6054
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<210> 6055
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<210> 6057
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<210> 6059
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<210> 6060
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<210> 6061
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<210> 6062
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<210> 6063
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<210> 6165
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tatgaaaaag tcaaaac 17

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atttttcaac tgaagtt 17

<210> 6187
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tttttcaact gaagttt 17

<210> 6188
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<400> 6188
actgaagttt gggattt 17

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atgaatggca gaaaccc 17

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aatggcagaa accctgg 17

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<210> 6192
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aaccctggtg gtcgagg 17

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<400> 6193
cgaaaaggtc gaatttt 17

<210> 6194

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tattattgat gctattc 17

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<400> 6195
cttccaagtc ttctcca 17

<210> 6196
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<400> 6196
cacggtcctg cgatctg 17

<210> 6197
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<400> 6197
tctgcggcag cttgctt 17

<210> 6198
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<220>
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<400> 6198
ctgcggcagc ttgctta 17

<210> 6199
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<400> 6199

ccaaaattcg acctttt 17

<210> 6200
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<400> 6200
caaaattcga ccttttc 17

<210> 6201
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<220>
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<400> 6201
tttcctcctc gaccacc 17

<210> 6202
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<220>
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<400> 6202
ttcctcctcg accacca 17

<210> 6203
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<400> 6203
gaagaatatt tcagatgttt 20

<210> 6204
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<400> 6204
ccttatcttc agtcacatgc 20

<210> 6205
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<220>
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<400> 6205
atcaaagcaa tctttcccaa 20

<210> 6206
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<400> 6206
ctttcccaat ggtcaattcc 20

<210> 6207
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<400> 6207
tttcccaatg gtcaattcca 20

<210> 6208
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<400> 6208
aagcagatgc tgctgaattc 20

<210> 6209
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<220>
<223> Synthetic oligonucleotide: CBLB-635

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gaattctgga gaaagttttt 20

<210> 6210
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<220>
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<400> 6210
aaaaatcatt tttatagctg 20

<210> 6211

<211> 20
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tgcacagaac tatcgtacca 20

<210> 6212
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<220>
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<400> 6212
attcagacag tgccttcatg 20

<210> 6213
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<220>
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<400> 6213
gaggtccacc agattagctc 20

<210> 6214
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<220>
<223> Synthetic oligonucleotide: CBLB-640

<400> 6214
ccaccagatt agctctggcc 20

<210> 6215
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<220>
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<400> 6215
tagctctggc ctggaagcaa 20

<210> 6216
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<220>
<223> Synthetic oligonucleotide: CBLB-642

<400> 6216

ttgaatttga tatttttacc 20

<210> 6217
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<220>
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<400> 6217
tatttttacc aggctgtttc 20

<210> 6218
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<220>
<223> Synthetic oligonucleotide: CBLB-644

<400> 6218
attttttat tttttagcct 20

<210> 6219
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<220>
<223> Synthetic oligonucleotide: CBLB-645

<400> 6219
ttttttatt ttttagcctt 20

<210> 6220
<211> 20
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<220>
<223> Synthetic oligonucleotide: CBLB-646

<400> 6220
tttttattt tttagccttg 20

<210> 6221
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<220>
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<400> 6221
agccttgggg ctctattttg 20

<210> 6222
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<220>
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<400> 6222
ggggctctat tttgcggaat 20

<210> 6223
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<220>
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ttcttagctg tgacacatcc 20

<210> 6224
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<220>
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<400> 6224
tgtgacacat ccaggttaca 20

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<220>
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<400> 6225
cagaaatata gcaccaaacc 20

<210> 6226
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<220>
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aatatagcac caaacccgga 20

<210> 6227
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<220>
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<400> 6227
tgttttgcag ctatattttc 20

<210> 6228

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<220>
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<210> 6229
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<220>
<223> Synthetic oligonucleotide: CBLB-655

<400> 6229
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<210> 6230
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<220>
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<400> 6230
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<400> 6231
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<400> 6232
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<400> 6233

tgggccattg gctatgtgac 20

<210> 6234
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<220>
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ggccattggc tatgtgactg 20

<210> 6236
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<210> 6237
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<220>
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<400> 6237
ttggctatgt gactggggat 20

<210> 6238
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<220>
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ttatttcaag ccctgattga 20

<210> 6239
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<220>
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<210> 6240
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<220>
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agccctgatt gatggcagca 20

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<220>
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<210> 6242
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<220>
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<400> 6242
aggattgtaa gtatgagaaa 20

<210> 6243
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<220>
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<400> 6243
taagtatgag aaatggaagt 20

<210> 6244
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<220>
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<400> 6244
ttcagttatc tttatcctga 20

<210> 6245

<211> 20
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<220>
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<400> 6245
tcagttatct ttatcctgat 20

<210> 6246
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<220>
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<400> 6246
gttatcttta tcctgatggg 20

<210> 6247
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<220>
<223> Synthetic oligonucleotide: CBLB-673

<400> 6247
agttataatc ctgatttaac 20

<210> 6248
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<220>
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<400> 6248
tgaccatata aaagttacac 20

<210> 6249
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<220>
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<400> 6249
atataaaagt tacacaggta 20

<210> 6250
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<220>
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<400> 6250

ctccctcctc cccaaattcc 20

<210> 6251
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<220>
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<400> 6251
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<210> 6252
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<220>
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<400> 6252
tatgaattat attgtgaaat 20

<210> 6253
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<220>
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<400> 6253
gatgtcaaga ttgagccttg 20

<210> 6254
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<220>
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<400> 6254
atgtcaagat tgagccttgt 20

<210> 6255
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<220>
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<400> 6255
gatgtgcacc tcttgcctta 20

<210> 6256
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<220>
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<400> 6256
gcacctcttg ccttacggca 20

<210> 6257
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<220>
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<400> 6257
ctcttgcctt acggcatggc 20

<210> 6258
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<220>
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<400> 6258
aggtataatc attagcaaca 20

<210> 6259
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<220>
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<210> 6260
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<210> 6261
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<220>
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<210> 6262

<211> 20
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<220>
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<400> 6262
tgtttaggag tcggatggtc 20

<210> 6263
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<220>
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<400> 6263
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<210> 6264
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<220>
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<210> 6265
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<220>
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<400> 6265
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<220>
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<400> 6266
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<210> 6267
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<220>
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<400> 6267

atccaagaga tgaaggctcc 20

<210> 6268
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<220>
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<400> 6268
tgcagcatca ttgacccctt 20

<210> 6269
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<220>
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<400> 6269
tggcatgccg atgctagact 20

<210> 6270
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<220>
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<400> 6270
ggacgacgat gatgatcgtg 20

<210> 6271
<211> 20
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<220>
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<400> 6271
aggagtcctt gatgatgaat 20

<210> 6272
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<220>
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<400> 6272
gtccttgatg atgaatcggt 20

<210> 6273
<211> 20
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<220>
<223> Synthetic oligonucleotide: CBLB-699

<400> 6273
tcggttggca aacgtccgaa 20

<210> 6274
<211> 20
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<220>
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<400> 6274
gaaaggtaaa actagaaaca 20

<210> 6275
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<220>
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<400> 6275
aaaggtaaaa ctagaaacat 20

<210> 6276
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<220>
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<400> 6276
tagaaacatg ggtttagtta 20

<210> 6277
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<220>
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<400> 6277
ttctgttcta gtgcactgac 20

<210> 6278
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<220>
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<400> 6278
aactcaccag tcacatcacc 20

<210> 6279

<211> 20
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<220>
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<400> 6279
gccacccgtg cctcctcgcc 20

<210> 6280
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<220>
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<400> 6280
cgcctggatc taattcagaa 20

<210> 6281
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<220>
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<400> 6281
ggcatagtta gatctccctg 20

<210> 6282
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<220>
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<400> 6282
atctccctgt ggcagcccaa 20

<210> 6283
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<220>
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<400> 6283
tctccctgtg gcagcccaac 20

<210> 6284
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<220>
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<400> 6284

cagcccaacg ggttcaccaa 20

<210> 6285
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<220>
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<400> 6285
tctttagtct tctccttgca 20

<210> 6286
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<220>
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<400> 6286
gagtagacac atccatcatg 20

<210> 6287
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<220>
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<400> 6287
cgccaatgcc tcttgaagca 20

<210> 6288
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<220>
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<400> 6288
ctcttgaagc atggtgccct 20

<210> 6289
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<220>
<223> Synthetic oligonucleotide: CBLB-715

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tcttgaagca tggtgccctc 20

<210> 6290
<211> 20
<212> DNA
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<220>
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tggtgccctc gggatgtgtt 20

<210> 6291
<211> 20
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<220>
<223> Synthetic oligonucleotide: CBLB-717

<400> 6291
ggtgccctcg ggatgtgttt 20

<210> 6292
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<220>
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<400> 6292
gtttgggact aatcagcttg 20

<210> 6293
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<220>
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<400> 6293
tttgggacta atcagcttgt 20

<210> 6294
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<212> DNA
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<220>
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<400> 6294
cttgtgggat gtcgactcct 20

<210> 6295
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<220>
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<400> 6295
ttgtgggatg tcgactccta 20

<210> 6296

<211> 20
<212> DNA
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<220>
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<400> 6296
tgtgggatgt cgactcctag 20

<210> 6297
<211> 20
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<220>
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<400> 6297
gggatgtcga ctcctagggg 20

<210> 6298
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<220>
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<400> 6298
ggatgtcgac tcctagggga 20

<210> 6299
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<220>
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<400> 6299
ggggagggct ctccaaaacc 20

<210> 6300
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<220>
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<400> 6300
acagcgagtt caaatgtcaa 20

<210> 6301
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<220>
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<400> 6301

cgagttcaaa tgtcaatgga 20

<210> 6302
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<220>
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<400> 6302
caatggaagg cacagtagag 20

<210> 6303
<211> 20
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<220>
<223> Synthetic oligonucleotide: CBLB-729

<400> 6303
aatggaaggc acagtagagt 20

<210> 6304
<211> 20
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<220>
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<400> 6304
gctctgaccc agtgcttatg 20

<210> 6305
<211> 20
<212> DNA
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<220>
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<400> 6305
cgccatgatt tgcctttaga 20

<210> 6306
<211> 20
<212> DNA
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<220>
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<400> 6306
tttgccttta gaaggagcta 20

<210> 6307
<211> 20
<212> DNA
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<220>
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<400> 6307
taacaatttg atttactttc 20

<210> 6308
<211> 20
<212> DNA
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<220>
<223> Synthetic oligonucleotide: CBLB-734

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<210> 6342
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<210> 6347

<211> 20
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aaagcaatct ttcccaa 17

<210> 6366
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<210> 6368
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<210> 6370
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<400> 6377
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<210> 6381

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<210> 6383
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atagcaccaa acccgga 17

<210> 6387
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<400> 6390
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<210> 6397
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<210> 6398

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<400> 6404
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<210> 6406
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<210> 6408
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<210> 6409
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gtgcacctct tgcctta 17

<210> 6416
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<220>
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cctcttgcct tacggca 17

<210> 6417
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<210> 6420
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<220>
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<400> 6420

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<210> 6421
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<220>
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aactgagccc ataatcg 17

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<400> 6427
caagagatga aggctcc 17

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<400> 6429
catgccgatg ctagact 17

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cgacgatgat gatcgtg 17

<210> 6431
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ctttgcctcc tgctaga 17

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aactaacaga acatcac 17

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<210> 6509
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<210> 6510
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<400> 6510
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<210> 6511
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<210> 6513
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<400> 6516
aaaaattgca aaactca 17

<210> 6517

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<400> 6517
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gggttatgcc tttgaag 17

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<400> 6522

aactgtagac accaaaa 17

<210> 6523
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<210> 6524
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<220>
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agatttcgtc tgtaggcaca 20

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ttttgtgaga tttcgtctgt 20

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<220>
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cagcatgtga ctgaagataa 20

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<220>
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ccagcatgtg actgaagata 20

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<220>
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<400> 6528
tctccctgga attgaccatt 20

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<220>
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tgatacgaaa gttatctccc 20

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<220>
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ctgtgcaagg tggaaaaaaa 20

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<220>
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tctgtgcaag gtggaaaaaa 20

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tacgatagtt ctgtgcaagg 20

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<220>
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tggtacgata gttctgtgca 20

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<220>
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cactgtctga atactttcca 20

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taatctggtg gacctcatga 20

<210> 6537
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<220>
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<400> 6537
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<210> 6538
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<220>
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cttccaggcc agagctaatc 20

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<220>
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<210> 6540
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<220>
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taaacttacc tgaaacagcc 20

<210> 6541
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<220>
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<400> 6541
ttccgcaaaa tagagcccca 20

<210> 6542
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<220>
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gtgagaaatg ccatgtaacc 20

<210> 6543
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<220>
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aaagtcttac cttccgggtt 20

<210> 6544
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<220>
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<400> 6544
gctaaaaagt cttaccttcc 20

<210> 6545
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<220>
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<400> 6545
tgctaaaaag tcttaccttc 20

<210> 6546
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<220>
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ccaatcgagt gcaacttaac 20

<210> 6547
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<220>
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atccccagtc acatagccaa 20

<210> 6548
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<220>
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taagggcttg ttatgaggta 20

<210> 6549
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<220>
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<400> 6549
tgaaataagg gcttgttatg 20

<210> 6550
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<220>
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<210> 6551

<211> 20
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<220>
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<210> 6552
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<220>
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ttccctgctg ccatcaatca 20

<210> 6553
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<220>
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<210> 6554
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<220>
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<210> 6555
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<220>
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<210> 6556
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<220>
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<210> 6567
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<220>
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<210> 6568

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<210> 6579
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<210> 6580
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<210> 6581
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<210> 6585

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<210> 6587
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<210> 6588
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<210> 6589
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<210> 6590
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<220>
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<210> 6591
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<210> 6592
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<210> 6593
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<210> 6594
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<210> 6595
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<210> 6596
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<210> 6597
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<400> 6597
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<210> 6598
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<220>
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<210> 6599
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<210> 6600
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<210> 6601
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<220>
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<210> 6602

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<210> 6603
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<210> 6604
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<210> 6605
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<210> 6606
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<400> 6606
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<210> 6607
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<400> 6607

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<210> 6608
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<210> 6609
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<210> 6610
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<210> 6611
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<220>
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<210> 6612
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<220>
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<210> 6613
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<400> 6613
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<210> 6614
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<210> 6615
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<210> 6616
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<210> 6617
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<210> 6618
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<210> 6619

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<210> 6620
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<210> 6621
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<210> 6622
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<210> 6623
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<210> 6624
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ggtctttcag gtggcggtgg 20

<210> 6625
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<400> 6625
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<210> 6627
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<210> 6628
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aaggcacgct ttccacatga 20

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<210> 6638
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<210> 6639
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cgagggcacc atgcttcaag 20

<210> 6642
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<210> 6646
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<210> 6647
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<210> 6648
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<210> 6649
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<210> 6651
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<220>
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ttcacttcca aggtgaccat 20

<210> 6652
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<210> 6653

<211> 20
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ggaggaggag aaagccgggg 20

<210> 6654
<211> 20
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<220>
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ggaggaggag gagaaagccg 20

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<211> 20
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<220>
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<400> 6655
tggaggagga ggagaaagcc 20

<210> 6656
<211> 20
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<220>
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<400> 6656
ctggaggagg aggagaaagc 20

<210> 6657
<211> 20
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<220>
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<400> 6657
agggtggtaa ctggaggagg 20

<210> 6658
<211> 20
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<220>
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<400> 6658

aggagggtgg taactggagg 20

<210> 6659
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<220>
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<400> 6659
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<210> 6660
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<220>
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<210> 6661
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<220>
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<210> 6662
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<220>
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<400> 6662
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<210> 6663
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<220>
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<210> 6664
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<220>
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<400> 6664
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<210> 6665
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<220>
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<400> 6665
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<210> 6666
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<220>
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<400> 6666
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<210> 6667
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<220>
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<400> 6667
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<210> 6668
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<220>
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<210> 6669
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<220>
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<400> 6669
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<210> 6670

<211> 20
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<220>
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<210> 6671
<211> 20
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<220>
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<210> 6672
<211> 20
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<220>
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<210> 6673
<211> 20
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<220>
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agggaaacag ggtgggatga 20

<210> 6674
<211> 20
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<220>
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tgaattcagg gaaacagggt 20

<210> 6675
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<220>
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gtgaattcag ggaaacaggg 20

<210> 6676
<211> 20
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gttgtgaatt cagggaaaca 20

<210> 6677
<211> 20
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<220>
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<400> 6677
ggttgtgaat tcagggaaac 20

<210> 6678
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<210> 6784
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gtcttacctt ccgggtt 17

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<220>
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<210> 6787
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<400> 6787
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<210> 6790
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<210> 6795
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<210> 6798
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<210> 6799
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<400> 7049

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ggaaatcccc gaaaagg 17

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cccgaaaagg tcgaatt 17

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<400> 7052
gtattattga tgctatt 17

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tgctattcag gatgcag 17

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caagctgccg cagatcg 17

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ccgcagatcg caggacc 17

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cgcagatcgc aggaccg 17

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aggaccgtgg agaagac 17

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ggaccgtgga gaagact 17

<210> 7060
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agaagacttg gaagctc 17

<210> 7061

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aaaatcccaa acttcag 17

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<400> 7063
agcatttacg acttata 17

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gtaaatatga tgacaac 17

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gaaacttgcc caactca 17

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<400> 7066

aacttgccca actcagt 17

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tgcccaactc agtgaga 17

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<220>
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<220>
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<400> 7070
ggcaataaga ctcttta 17

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<400> 7075
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<220>
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<400> 7076
caaggagaga atgtatg 17

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cattcattga gtttgccatc 20

<210> 7078

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<210> 7080
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acccaaaatt cgacctttc 20

<210> 7082
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tacccaaaat tcgacctttt 20

<210> 7083
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<220>
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<400> 7083

atacccaaaa ttcgaccttt 20

<210> 7084
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<220>
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ttagggggtc caactgcatc 20

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gatctgcggc agcttgctta 20

<210> 7086
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<220>
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cgatctgcgg cagcttgctt 20

<210> 7087
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<400> 7087
gcgatctgcg gcagcttgct 20

<210> 7088
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<220>
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<400> 7088
cagaacttac cactttgtcc 20

<210> 7089
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<220>
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<400> 7089
ttcgcacagg caacgtcaga 20

<210> 7090
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gctatttttc aactgaagtt 20

<210> 7091
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<220>
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ggctattttt caactgaagt 20

<210> 7092
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tatggtgggc tatttttcaa 20

<210> 7093
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<220>
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<400> 7093
caaaatatca agtatatatg 20

<210> 7094
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<220>
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<400> 7094
aagtactcat tctcactgag 20

<210> 7095

<211> 20
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<220>
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<400> 7095
ttttaaagta ctcattctca 20

<210> 7096
<211> 20
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<220>
<223> Synthetic oligonucleotide: CBLB-90

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ttctctcctt gccttcttta 20

<210> 7097
<211> 17
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<220>
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<400> 7097
tcattgagtt tgccatc 17

<210> 7098
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<220>
<223> Synthetic oligonucleotide: CBLB-92

<400> 7098
ttcattgagt ttgccat 17

<210> 7099
<211> 17
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<220>
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<400> 7099
agggtttctg ccattca 17

<210> 7100
<211> 17
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<220>
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<400> 7100

atttcctcct cgaccac 17

<210> 7101
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<400> 7101
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<210> 7102
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<400> 7102
ccaaaattcg acctttt 17

<210> 7103
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<220>
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<400> 7103
cccaaaattc gaccttt 17

<210> 7104
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<400> 7104
gggggtccaa ctgcatc 17

<210> 7105
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<400> 7105
ctgcggcagc ttgctta 17

<210> 7106
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<400> 7106
tctgcggcag cttgctt 17

<210> 7107
<211> 17
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<220>
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<400> 7107
atctgcggca gcttgct 17

<210> 7108
<211> 17
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<220>
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<400> 7108
aacttaccac tttgtcc 17

<210> 7109
<211> 17
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<220>
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<400> 7109
gcacaggcaa cgtcaga 17

<210> 7110
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<400> 7110
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<210> 7111
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<220>
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<400> 7111
tatttttcaa ctgaagt 17

<210> 7112

<211> 17
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<400> 7112
ggtgggctat ttttcaa 17

<210> 7113
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<400> 7113
aatatcaagt atatatg 17

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<220>
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<400> 7114
tactcattct cactgag 17

<210> 7115
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<220>
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<400> 7115
taaagtactc attctca 17

<210> 7116
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<400> 7116
tctccttgcc ttcttta 17

<210> 7117
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<220>
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<400> 7117

ttttccctt gtgcctacag 20

<210> 7118
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<220>
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<400> 7118
tatcttcagt cacatgctgg 20

<210> 7119
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<220>
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<400> 7119
tctttcccaa tggtcaattc 20

<210> 7120
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<400> 7120
ctttcccaat ggtcaattcc 20

<210> 7121
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<400> 7121
tttcccaatg gtcaattcca 20

<210> 7122
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<220>
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tatcacaaaa gcagatgctg 20

<210> 7123
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<220>
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<400> 7123
aaagcagatg ctgctgaatt 20

<210> 7124
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<220>
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<400> 7124
aagcagatgc tgctgaattc 20

<210> 7125
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<220>
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<400> 7125
gcagatgctg ctgaattctg 20

<210> 7126
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<220>
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<400> 7126
tgaattctgg agaaagtttt 20

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<220>
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<400> 7127
gaattctgga gaaagttttt 20

<210> 7128
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<220>
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taaaaatcat ttttatagct 20

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<400> 7129
ccctttttt ccaccttgca 20

<210> 7130
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<220>
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<400> 7130
ttgcacagaa ctatcgtacc 20

<210> 7131
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<220>
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<400> 7131
tgcacagaac tatcgtacca 20

<210> 7132
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<400> 7132
agtattcaga cagtgccttc 20

<210> 7133
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<220>
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<400> 7133
tccaccagat tagctctggc 20

<210> 7134
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<220>
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<400> 7134

ccaccagatt agctctggcc 20

<210> 7135
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<220>
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<400> 7135
caatgattac atttcagttt 20

<210> 7136
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<220>
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<400> 7136
aatttttta ttttttagcc 20

<210> 7137
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<220>
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<400> 7137
atttttttat tttttagcct 20

<210> 7138
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<220>
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<400> 7138
tagccttggg gctctatttt 20

<210> 7139
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<220>
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<400> 7139
agccttgggg ctctattttg 20

<210> 7140
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<220>
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<400> 7140
tggggctcta ttttgcggaa 20

<210> 7141
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<220>
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<400> 7141
ggggctctat tttgcggaat 20

<210> 7142
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<210> 7143
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<220>
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atgaagttaa agcacgacta 20

<210> 7144
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acagaaatat agcaccaaac 20

<210> 7145
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cagaaatata gcaccaaacc 20

<210> 7146

<211> 20
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tccggttaag ttgcactcga 20

<210> 7147
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<220>
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<400> 7147
ccggttaagt tgcactcgat 20

<210> 7148
<211> 20
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<220>
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<400> 7148
agttgcactc gattgggaca 20

<210> 7149
<211> 20
<212> DNA
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<220>
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<400> 7149
gtgggccatt ggctatgtga 20

<210> 7150
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<220>
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<400> 7150
tgggccattg gctatgtgac 20

<210> 7151
<211> 20
<212> DNA
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<220>
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<400> 7151

gggccattgg ctatgtgact 20

<210> 7152
<211> 20
<212> DNA
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<220>
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<400> 7152
cattggctat gtgactgggg 20

<210> 7153
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<220>
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<400> 7153
attggctatg tgactgggga 20

<210> 7154
<211> 20
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<220>
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<400> 7154
ttggctatgt gactggggat 20

<210> 7155
<211> 20
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<220>
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<400> 7155
caagccctga ttgatggcag 20

<210> 7156
<211> 20
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<220>
<223> Synthetic oligonucleotide: CBLB-665

<400> 7156
aagccctgat tgatggcagc 20

<210> 7157
<211> 20
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<220>
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<400> 7157
agccctgatt gatggcagca 20

<210> 7158
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<220>
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<400> 7158
cctgattgat ggcagcaggg 20

<210> 7159
<211> 20
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<220>
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<400> 7159
agcagggaag gattgtaagt 20

<210> 7160
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<220>
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<400> 7160
cagggaagga ttgtaagtat 20

<210> 7161
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<220>
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<400> 7161
aaggattgta agtatgagaa 20

<210> 7162
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<220>
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<400> 7162
aggattgtaa gtatgagaaa 20

<210> 7163

<211> 20
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gtaagtatga gaaatggaag 20

<210> 7164
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<220>
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<400> 7164
taagtatgag aaatggaagt 20

<210> 7165
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<400> 7165
attcagttat ctttatcctg 20

<210> 7166
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<400> 7166
ttcagttatc tttatcctga 20

<210> 7167
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<220>
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<400> 7167
tcagttatct ttatcctgat 20

<210> 7168
<211> 20
<212> DNA
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<220>
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<400> 7168

agttatcttt atcctgatgg 20

<210> 7169
<211> 20
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<220>
<223> Synthetic oligonucleotide: CBLB-672

<400> 7169
gttatcttta tcctgatggg 20

<210> 7170
<211> 20
<212> DNA
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<220>
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<400> 7170
gagttataat cctgatttaa 20

<210> 7171
<211> 20
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tcctgattta actggattat 20

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<400> 7172
catataaaag ttacacaggt 20

<210> 7173
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<400> 7173
acacaggtaa ggataattgc 20

<210> 7174
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<210> 7175
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<223> Synthetic oligonucleotide: CBLB-676

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<210> 7176
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ccccaaattc caggaacaat 20

<210> 7177
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<400> 7177
ggaacaatat gaattatatt 20

<210> 7178
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<400> 7178
aatatgaatt atattgtgaa 20

<210> 7179
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tcagctctgt aagatttgtg 20

<210> 7180

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<400> 7180
agctctgtaa gatttgtgca 20

<210> 7181
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<400> 7181
gaatgacaaa gatgtcaaga 20

<210> 7182
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<400> 7182
agatgtcaag attgagcctt 20

<210> 7183
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caggtataat cattagcaac 20

<210> 7184
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<400> 7184
ccatgcattt tctatttgtt 20

<210> 7185
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catgcatttt ctatttgttt 20

<210> 7186
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attttctatt tgtttaggag 20

<210> 7187
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<210> 7188
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<220>
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<400> 7188
gggctgccct ttctgtcgtt 20

<210> 7189
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<400> 7189
tttctgtcgt tgtgaaataa 20

<210> 7190
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ttctgtcgtt gtgaaataaa 20

<210> 7191
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tcgttgtgaa ataaaaggaa 20

<210> 7192
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aaggaactga gcccataatc 20

<210> 7193
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<220>
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atcgtggacc cctttgatcc 20

<210> 7194
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<220>
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<400> 7194
ggaccccttt gatccaagag 20

<210> 7195
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<220>
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<400> 7195
ttggcatgcc gatgctagac 20

<210> 7196
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<400> 7196
cttggacgac gatgatgatc 20

<210> 7197

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<400> 7197
tggacgacga tgatgatcgt 20

<210> 7198
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<400> 7198
ggacgacgat gatgatcgtg 20

<210> 7199
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<220>
<223> Synthetic oligonucleotide: CBLB-193

<400> 7199
atcgtgagga gtccttgatg 20

<210> 7200
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<400> 7200
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<210> 7201
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<220>
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<400> 7201
aaacgtccga aaggtaaaac 20

<210> 7202
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<220>
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<400> 7202

cgaaaggtaa aactagaaac 20

<210> 7203
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<220>
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<400> 7203
tgttctagtg cactgacagg 20

<210> 7204
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<220>
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<400> 7204
gaactcacca gtcacatcac 20

<210> 7205
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<220>
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<400> 7205
caggatcctc tccccttgcc 20

<210> 7206
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<400> 7206
ggatcctctc cccttgccca 20

<210> 7207
<211> 20
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<220>
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<400> 7207
tcctctcccc ttgcccagag 20

<210> 7208
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<220>
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<400> 7208
tgccacccgt gcctcctcgc 20

<210> 7209
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<220>
<223> Synthetic oligonucleotide: CBLB-203

<400> 7209
ctcctcgcct ggatctaatt 20

<210> 7210
<211> 20
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<220>
<223> Synthetic oligonucleotide: CBLB-204

<400> 7210
gatctccctg tggcagccca 20

<210> 7211
<211> 20
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<220>
<223> Synthetic oligonucleotide: CBLB-205

<400> 7211
caaaggtaga tcaattttat 20

<210> 7212
<211> 20
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<220>
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<400> 7212
tttagtcttc tccttgcatg 20

<210> 7213
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<220>
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<400> 7213
tagtcttctc cttgcatggt 20

<210> 7214

<211> 20
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<220>
<223> Synthetic oligonucleotide: CBLB-208

<400> 7214
ccagcaccac ctcctccctt 20

<210> 7215
<211> 17
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<220>
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<400> 7215
ttcccttgtg cctacag 17

<210> 7216
<211> 17
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<220>
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<400> 7216
cttcagtcac atgctgg 17

<210> 7217
<211> 17
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<220>
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<400> 7217
ttcccaatgg tcaattc 17

<210> 7218
<211> 17
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<220>
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<400> 7218
tcccaatggt caattcc 17

<210> 7219
<211> 17
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<220>
<223> Synthetic oligonucleotide: CBLB-793

<400> 7219

cccaatggtc aattcca 17

<210> 7220
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<220>
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<400> 7220
cacaaaagca gatgctg 17

<210> 7221
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<220>
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<400> 7221
gcagatgctg ctgaatt 17

<210> 7222
<211> 17
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<400> 7222
cagatgctgc tgaattc 17

<210> 7223
<211> 17
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<400> 7223
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<210> 7224
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<220>
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<400> 7224
attctggaga aagtttt 17

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<400> 7226
aaatcatttt tatagct 17

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<400> 7227
ttttttttcca ccttgca 17

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<400> 7228
cacagaacta tcgtacc 17

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<400> 7229
acagaactat cgtacca 17

<210> 7230
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<400> 7230
attcagacag tgccttc 17

<210> 7231

<211> 17
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<400> 7231
accagattag ctctggc 17

<210> 7232
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<400> 7232
ccagattagc tctggcc 17

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<400> 7233
tgattacatt tcagttt 17

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<400> 7234
ttttttattt tttagcc 17

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<400> 7235
tttttatttt ttagcct 17

<210> 7236
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<400> 7236

ccttggggct ctatttt 17

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<400> 7237
cttggggctc tattttg 17

<210> 7238
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<400> 7238
ggctctattt tgcggaa 17

<210> 7239
<211> 17
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<220>
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<400> 7239
gctctatttt gcggaat 17

<210> 7240
<211> 17
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<220>
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<400> 7240
ggcatttctc acatatg 17

<210> 7241
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<220>
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<400> 7241
aagttaaagc acgacta 17

<210> 7242
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<220>
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<400> 7242
gaaatatagc accaaac 17

<210> 7243
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<400> 7243
aaatatagca ccaaacc 17

<210> 7244
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<220>
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<400> 7244
ggttaagttg cactcga 17

<210> 7245
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<400> 7245
gttaagttgc actcgat 17

<210> 7246
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<220>
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<400> 7246
tgcactcgat tgggaca 17

<210> 7247
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<400> 7247
ggccattggc tatgtga 17

<210> 7248

<211> 17
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<220>
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<400> 7248
gccattggct atgtgac 17

<210> 7249
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<220>
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<400> 7249
ccattggcta tgtgact 17

<210> 7250
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<220>
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<400> 7250
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<210> 7251
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<400> 7251
ggctatgtga ctgggga 17

<210> 7252
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<210> 7253
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<220>
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<400> 7253

gccctgattg atggcag 17

<210> 7254
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<220>
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<400> 7254
ccctgattga tggcagc 17

<210> 7255
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<400> 7255
cctgattgat ggcagca 17

<210> 7256
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<220>
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<400> 7256
gattgatggc agcaggg 17

<210> 7257
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<220>
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<400> 7257
agggaaggat tgtaagt 17

<210> 7258
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<220>
<223> Synthetic oligonucleotide: CBLB-252

<400> 7258
ggaaggattg taagtat 17

<210> 7259
<211> 17
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<220>
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<400> 7259
gattgtaagt atgagaa 17

<210> 7260
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<220>
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<400> 7260
attgtaagta tgagaaa 17

<210> 7261
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<220>
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<400> 7261
agtatgagaa atggaag 17

<210> 7262
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<400> 7262
gtatgagaaa tggaagt 17

<210> 7263
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<220>
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cagttatctt tatcctg 17

<210> 7264
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<220>
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<400> 7264
agttatcttt atcctga 17

<210> 7265

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gttatcttta tcctgat 17

<210> 7266
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<400> 7266
tatctttatc ctgatgg 17

<210> 7267
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<220>
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atctttatcc tgatggg 17

<210> 7268
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<220>
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ttataatcct gatttaa 17

<210> 7269
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<400> 7269
tgatttaact ggattat 17

<210> 7270
<211> 17
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<220>
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<400> 7270

ataaaagtta cacaggt 17

<210> 7271
<211> 17
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<220>
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<400> 7271
caggtaagga taattgc 17

<210> 7272
<211> 17
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<220>
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<400> 7272
ccctcctccc caaattc 17

<210> 7273
<211> 17
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<220>
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<400> 7273
cctcctcccc aaattcc 17

<210> 7274
<211> 17
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<220>
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<400> 7274
caaattccag gaacaat 17

<210> 7275
<211> 17
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<220>
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<400> 7275
acaatatgaa ttatatt 17

<210> 7276
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<220>
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<400> 7276
atgaattata ttgtgaa 17

<210> 7277
<211> 17
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<220>
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<400> 7277
gctctgtaag atttgtg 17

<210> 7278
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<220>
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<400> 7278
tctgtaagat ttgtgca 17

<210> 7279
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<220>
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<400> 7279
tgacaaagat gtcaaga 17

<210> 7280
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<220>
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<400> 7280
tgtcaagatt gagcctt 17

<210> 7281
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<220>
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<400> 7281
gtataatcat tagcaac 17

<210> 7282

<211> 17
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<220>
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<400> 7282
tgcattttct atttgtt 17

<210> 7283
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<400> 7283
gcattttcta tttgttt 17

<210> 7284
<211> 17
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<220>
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<400> 7284
ttctatttgt ttaggag 17

<210> 7285
<211> 17
<212> DNA
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<220>
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<400> 7285
tttaggagtc ggatggt 17

<210> 7286
<211> 17
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<220>
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<400> 7286
ctgccctttc tgtcgtt 17

<210> 7287
<211> 17
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<220>
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<400> 7287

ctgtcgttgt gaaataa 17

<210> 7288
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<220>
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<400> 7288
tgtcgttgtg aaataaa 17

<210> 7289
<211> 17
<212> DNA
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<220>
<223> Synthetic oligonucleotide: CBLB-283

<400> 7289
ttgtgaaata aaaggaa 17

<210> 7290
<211> 17
<212> DNA
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<220>
<223> Synthetic oligonucleotide: CBLB-284

<400> 7290
gaactgagcc cataatc 17

<210> 7291
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: CBLB-285

<400> 7291
gtggacccct ttgatcc 17

<210> 7292
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: CBLB-286

<400> 7292
ccccttttgat ccaagag 17

<210> 7293
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: CBLB-287

<400> 7293
gcatgccgat gctagac 17

<210> 7294
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: CBLB-288

<400> 7294
ggacgacgat gatgatc 17

<210> 7295
<211> 17
<212> DNA
<213> Artificial Sequence

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<210> 7299

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<210> 7301
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<400> 7301
tctagtgcac tgacagg 17

<210> 7302
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ctcaccagtc acatcac 17

<210> 7303
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<210> 7304
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<400> 7304

tcctctcccc ttgccca 17

<210> 7305
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<400> 7305
tctcccctg cccagag 17

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ctccctgtgg cagccca 17

<210> 7309
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aggtagatca attttat 17

<210> 7310
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agtcttctcc ttgcatg 17

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<220>
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tgtaggcaca agggaaaaaa 20

<210> 7314
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<210> 7316

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<210> 7318
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<220>
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<210> 7319
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<220>
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gccagcatgt gactgaagat 20

<210> 7320
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<210> 7326
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<210> 7330
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<220>
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<210> 7332
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<210> 7333

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<220>
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<400> 7333
ggacctcatg aaggcactgt 20

<210> 7334
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<220>
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<400> 7334
gagctaatct ggtggacctc 20

<210> 7335
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<400> 7335
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<210> 7336
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<210> 7337
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<400> 7337
gttaaatcaa ttgttgattt 20

<210> 7338
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<220>
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<400> 7338

aaaaatatca aattcaaaaa 20

<210> 7339
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<220>
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<400> 7339
ctaagcaagt ataaacttac 20

<210> 7340
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<220>
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<400> 7340
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<210> 7341
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<400> 7341
gaaattccaa ttccgcaaaa 20

<210> 7342
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<400> 7342
aacctggatg tgtcacagct 20

<210> 7343
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<400> 7343
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<210> 7344
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<220>
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gctttaactt catcatatgt 20

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<220>
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<210> 7346
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<210> 7347
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<220>
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aaaatatagc tgcaaaacat 20

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<220>
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<400> 7348
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<220>
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<400> 7350
ccaatggccc actgtcccaa 20

<210> 7351
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<220>
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<400> 7351
gcttgaaata agggcttgtt 20

<210> 7352
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<220>
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<400> 7352
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<210> 7353
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<220>
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<400> 7353
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<210> 7354
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<220>
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<400> 7354
ccttccctgc tgccatcaat 20

<210> 7355
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<220>
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<400> 7355

taaagataac tgaatttaaa 20

<210> 7356
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<220>
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<400> 7356
tcccatcagg ataaagataa 20

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<220>
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aggattataa ctcctcccat 20

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<220>
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ttcacataat ccagttaaat 20

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<400> 7359
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<220>
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<220>
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<220>
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<220>
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<400> 7372

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<220>
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<220>
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<220>
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ccatccgact cctaaacaaa 20

<210> 7379
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<220>
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<210> 7380
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<220>
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<220>
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<210> 7382
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<400> 7382
gccttcatct cttggatcaa 20

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<220>
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agccttcatc tcttggatca 20

<210> 7384

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<220>
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acacctggag ccttcatctc 20

<210> 7385
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gtcaatgatg ctgcaacacc 20

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ggtcaatgat gctgcaacac 20

<210> 7387
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gtctagcatc ggcatgccaa 20

<210> 7388
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agtctagcat cggcatgcca 20

<210> 7389
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ttgccaaccg attcatcatc 20

<210> 7390
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<210> 7391
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<220>
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agtgcactag aacagaaaaa 20

<210> 7392
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<220>
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tcagtgcact agaacagaaa 20

<210> 7393
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<220>
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tgcctgtcag tgcactagaa 20

<210> 7394
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<220>
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agttctgcct gtcagtgcac 20

<210> 7395
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<220>
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<400> 7395
ggatcctggt gatgtgactg 20

<210> 7396
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<220>
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<400> 7396
ttcttctctg ggcaagggga 20

<210> 7397
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<220>
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ctttcttctc tgggcaaggg 20

<210> 7398
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<220>
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ggctttcttc tctgggcaag 20

<210> 7399
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<220>
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<400> 7399
tggctttctt ctctgggcaa 20

<210> 7400
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<220>
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gtggctttct tctctgggca 20

<210> 7401

<211> 20
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<220>
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tgtggctttc ttctctgggc 20

<210> 7402
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<212> DNA
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<220>
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<400> 7402
tcaggctgtg gctttcttct 20

<210> 7403
<211> 20
<212> DNA
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<220>
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<400> 7403
gcttagatgt gggatctgga 20

<210> 7404
<211> 20
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<220>
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<400> 7404
gcaggcttag atgtgggatc 20

<210> 7405
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<220>
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ggcaggctta gatgtgggat 20

<210> 7406
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<220>
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<400> 7406

acgggtggca ggcttagatg 20

<210> 7407
<211> 20
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<220>
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cacgggtggc aggcttagat 20

<210> 7408
<211> 20
<212> DNA
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<220>
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<400> 7408
ttagatccag gcgaggaggc 20

<210> 7409
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<220>
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<400> 7409
ttctgaatta gatccaggcg 20

<210> 7410
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<220>
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tttctgaatt agatccaggc 20

<210> 7411
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<220>
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<400> 7411
cctttctgaa ttagatccag 20

<210> 7412
<211> 20
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<220>
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<400> 7412
ggagatctaa ctatgccttt 20

<210> 7413
<211> 20
<212> DNA
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<220>
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<400> 7413
gaacccgttg ggctgccaca 20

<210> 7414
<211> 20
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<220>
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<400> 7414
tgaacccgtt gggctgccac 20

<210> 7415
<211> 20
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<220>
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<400> 7415
gtgaacccgt tgggctgcca 20

<210> 7416
<211> 20
<212> DNA
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<220>
<223> Synthetic oligonucleotide: CBLB-410

<400> 7416
atctaccttt ggtgaacccg 20

<210> 7417
<211> 20
<212> DNA
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<220>
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<400> 7417
ataaaattga tctacctttg 20

<210> 7418

<211> 20
<212> DNA
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<220>
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caaggagaag actaaagaaa 20

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<210> 7435

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<210> 7437
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<210> 7438
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ttcgtctgta ggcacaa 17

<210> 7442
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<220>
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<210> 7453
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<220>
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gcatctgctt ttgtgat 17

<210> 7454
<211> 17
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<220>
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tgcaaggtgg aaaaaaa 17

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<220>
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gtgcaaggtg gaaaaaa 17

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<400> 7457

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<400> 7458
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<400> 7459
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aaatcaattg ttgattt 17

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aatatcaaat tcaaaaa 17

<210> 7466
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<400> 7466
agcaagtata aacttac 17

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<400> 7467
aaaaataaaa aaattaa 17

<210> 7468
<211> 17
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<400> 7468
attccaattc cgcaaaa 17

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<211> 17
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ctttaacttc atcatat 17

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ctaaaaagtc ttacctt 17

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atatagctgc aaaacat 17

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atcgagtgca acttaac 17

<210> 7476
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aatcgagtgc aacttaa 17

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atggcccact gtcccaa 17

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tgaaataagg gcttgtt 17

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<210> 7480
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<210> 7481
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<210> 7482
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<400> 7482
agataactga atttaaa 17

<210> 7483
<211> 17
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<400> 7483
catcaggata aagataa 17

<210> 7484
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<400> 7484
attataactc ctcccat 17

<210> 7485
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acataatcca gttaaat 17

<210> 7486

<211> 17
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<220>
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gtaactttta tatggtc 17

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<220>
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ggaatttggg gaggagg 17

<210> 7488
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<220>
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<210> 7489
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<210> 7490
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<210> 7491
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<220>
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<210> 7492
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<220>
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<210> 7493
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<220>
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<210> 7494
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<210> 7495
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<210> 7496
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<220>
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catattgttc ctggaat 17

<210> 7497
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<220>
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<210> 7498
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<220>
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<400> 7498
tataattcat attgttc 17

<210> 7499
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<400> 7499
cttacagagc tgaaaag 17

<210> 7500
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<220>
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<400> 7500
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<210> 7501
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<220>
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<400> 7501
gcacaaatct tacagag 17

<210> 7502
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<220>
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<400> 7502
tctctgcaca aatctta 17

<210> 7503

<211> 17
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<220>
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<400> 7503
ctgccatgcc gtaaggc 17

<210> 7504
<211> 17
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<220>
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<400> 7504
aaacaaatag aaaatgc 17

<210> 7505
<211> 17
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<220>
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<400> 7505
tccgactcct aaacaaa 17

<210> 7506
<211> 17
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<220>
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<400> 7506
tatttcacaa cgacaga 17

<210> 7507
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<220>
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<400> 7507
cttttatttc acaacga 17

<210> 7508
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<400> 7508

caaaggggtc cacgatt 17

<210> 7509
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<400> 7509
ttcatctctt ggatcaa 17

<210> 7510
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<400> 7510
cttcatctct tggatca 17

<210> 7511
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<400> 7511
cctggagcct tcatctc 17

<210> 7512
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aatgatgctg caacacc 17

<210> 7513
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<400> 7513
caatgatgct gcaacac 17

<210> 7514
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<400> 7514
tagcatcggc atgccaa 17

<210> 7515
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<220>
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<400> 7515
ctagcatcgg catgcca 17

<210> 7516
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<220>
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<400> 7516
ccaaccgatt catcatc 17

<210> 7517
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<220>
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<400> 7517
gtttctagtt ttacctt 17

<210> 7518
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<400> 7518
gcactagaac agaaaaa 17

<210> 7519
<211> 17
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<400> 7519
gtgcactaga acagaaa 17

<210> 7520

<211> 17
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<220>
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<400> 7520
ctgtcagtgc actagaa 17

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<400> 7521
tctgcctgtc agtgcac 17

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<220>
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<400> 7522
tcctggtgat gtgactg 17

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<220>
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<400> 7523
ttctctgggc aagggga 17

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<220>
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<400> 7524
tcttctctgg gcaaggg 17

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<400> 7525

tttcttctct gggcaag 17

<210> 7526
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<400> 7526
ctttcttctc tgggcaa 17

<210> 7527
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gctttcttct ctgggca 17

<210> 7528
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<220>
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<400> 7528
ggctttcttc tctgggc 17

<210> 7529
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<220>
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<400> 7529
ggctgtggct ttcttct 17

<210> 7530
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<220>
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<400> 7530
tagatgtggg atctgga 17

<210> 7531
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<400> 7531
ggcttagatg tgggatc 17

<210> 7532
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<400> 7532
aggcttagat gtgggat 17

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<400> 7533
ggtggcaggc ttagatg 17

<210> 7534
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<220>
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<400> 7534
gggtggcagg cttagat 17

<210> 7535
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<220>
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<400> 7535
gatccaggcg aggaggc 17

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<400> 7536
tgaattagat ccaggcg 17

<210> 7537

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ctgaattaga tccaggc 17

<210> 7538
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<220>
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<400> 7538
ttctgaatta gatccag 17

<210> 7539
<211> 17
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<220>
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<400> 7539
gatctaacta tgccttt 17

<210> 7540
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cccgttgggc tgccaca 17

<210> 7541
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acccgttggg ctgccac 17

<210> 7542
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<220>
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<400> 7542

aacccgttgg gctgcca 17

<210> 7543
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<210> 7719
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<210> 7767
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<210> 7768
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<210> 7769
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<210> 7770
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<220>
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<400> 7771
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<210> 7772
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<220>
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<400> 7773
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<220>
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<400> 7774
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<210> 7778
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<210> 7779
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<210> 7780
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<400> 7780
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<400> 7783
ccaaaattcg acctttt 17

<210> 7784
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<400> 7784
tttcctcctc gaccacc 17

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<400> 7787
aaaaaagaaa agttagt 17

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agcaaaacca aaagttc 17

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<210> 7806
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<210> 7812
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<210> 7813
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<210> 7814
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<210> 7815
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<210> 7816
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<210> 7818
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<210> 7819
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<210> 7820
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<210> 7821
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<220>
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<210> 7822
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<210> 7823
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<220>
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<400> 7823
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<210> 7824
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<220>
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<210> 7825
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<220>
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<210> 7826
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<220>
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<210> 7827
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<210> 7828
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<220>
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<400> 7828
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<210> 7829
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<210> 7830
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<220>
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<210> 7836
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<220>
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<210> 7839
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<220>
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<210> 7840
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<220>
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<210> 7841
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<220>
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gatactgaaa atatttactg 20

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<210> 7852
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aaacttttt tgttgttaat 20

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<210> 7855
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<220>
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<210> 7856
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<220>
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<400> 7856
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<210> 7857
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<210> 7858
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<220>
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<400> 7858
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<210> 7859
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<220>
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<210> 7862
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<220>
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<210> 7863
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<220>
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<210> 7864
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<220>
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<210> 7869
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<220>
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<210> 7873
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<210> 7874
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<210> 7875
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<210> 7877
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<210> 7878
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cccgcgccct agacgga 17

<210> 7880
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<210> 7881
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ggacggtgct gcgggca 17

<210> 7883
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<220>
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gacggtgctg cgggcac 17

<210> 7884
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<220>
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<400> 7884
ggtgctgcgg gcacggg 17

<210> 7885
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<220>
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gtgctgcggg cacggga 17

<210> 7886
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<220>
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<210> 7887
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<210> 7888
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<220>
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gctcagaccc gaggggc 17

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<220>
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<210> 7891
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<220>
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<210> 7892
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<220>
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<210> 7893
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<220>
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<400> 7893
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<210> 7894
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<220>
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<400> 7894
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<210> 7895
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<220>
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<210> 7896
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<220>
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<210> 7897
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<220>
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<210> 7898
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<210> 7899
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<220>
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<210> 7900
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<220>
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<210> 7902
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<220>
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<210> 7903
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<220>
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<210> 7904
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<220>
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<210> 7905
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<220>
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<220>
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<210> 7908
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<220>
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<400> 7908
tgtgtgttaa tttcatt 17

<210> 7909
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<220>
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taatttcatt tggttct 17

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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<210> 7953
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<210> 7954
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<210> 7955
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<210> 7957
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<210> 7958
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<210> 7959
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<220>
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ctgcaggagg aaggtggact 20

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<210> 7961
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<220>
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<210> 7962
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<220>
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gggtctgagc tgcaggagga 20

<210> 7963
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<210> 7964
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gcccctcggg tctgagctgc 20

<210> 7965
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<210> 7966
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<210> 7967
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<210> 7968
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<210> 7969
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<220>
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<210> 7970
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aaaggaggag ttcacttctc 20

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aaagagaaaa atgacaagag 20

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<210> 7978
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ataaacaatg tgccatcgaa 20

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ggtattcaga ttgacttctc 20

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<210> 8002
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<400> 8002
ccgtctaggg cgcggga 17

<210> 8003
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<220>
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<400> 8004
ccgtccgtct agggcgc 17

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<400> 8005
accgtccgtc tagggcg 17

<210> 8006
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gcagcaccgt ccgtcta 17

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ggaaggtgga ctgggag 17

<210> 8009
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aggaaggtgg actggga 17

<210> 8010
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<210> 8011
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<210> 8012
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<210> 8013
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<210> 8014
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<220>
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<400> 8014
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<210> 8015
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<220>
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<210> 8016
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cctcgggtct gagctgc 17

<210> 8017
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<210> 8018
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<210> 8019
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<220>
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gagcggccac ggaaagg 17

<210> 8024
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<220>
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aatgacaaga gcggcca 17

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gagaaaaatg acaagag 17

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gttgtcaaca aaagcgc 17

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tatcctacac aaacgta 17

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<210> 8039
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tgtaacttgg agaaatctaa 20

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<210> 8068
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<210> 8069
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<210> 8072
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tcacaagctt attgataaag 20

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<210> 8077
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<210> 8078
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<210> 8081
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<210> 8082
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<210> 8083
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<210> 8084
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<210> 8085
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<210> 8086
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<210> 8087
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<210> 8088
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<210> 8089
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<210> 8091
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atccccgaaa aggtcgaatt 20

<210> 8092
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<210> 8093
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tgatgctatt caggatgcag 20

<210> 8094
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ctgccgcaga tcgcaggacc 20

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tgccgcagat cgcaggaccg 20

<210> 8097
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<220>
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ccgcagatcg caggaccgtg 20

<210> 8098
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<210> 8099
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<220>
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<210> 8101
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<210> 8102
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<210> 8103
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<210> 8104
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<220>
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<210> 8105
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ggtgtatggc catagaatgc 20

<210> 8107
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<220>
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<210> 8108
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aagtgtttgt tctgtcttct 20

<210> 8109
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ctttatgttt atgtaac 17

<210> 8110
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<210> 8118
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ttgaattgga attaagg 17

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aattggaatt aaggcag 17

<210> 8122
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<400> 8122
attggaatta aggcagg 17

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ttggaattaa ggcagga 17

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<210> 8126
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<400> 8126
attctgtttt tatctag 17

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<220>
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ttctgttttt atctagg 17

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<210> 8129
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ccttagctac ttgaaac 17

<210> 8135
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<210> 8138
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<210> 8139
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<210> 8140
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<210> 8141
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<220>
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<210> 8142
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<210> 8143
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<220>
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<210> 8144
<211> 17
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<210> 8145
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<210> 8146
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<210> 8147
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gcaaactcaa tgaatgg 17

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ggcagaaacc ctggtgg 17

<210> 8151
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cagaaaccct ggtggtc 17

<210> 8152
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agaaaccctg gtggtcg 17

<210> 8153
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<220>
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aaaccctggt ggtcgag 17

<210> 8154
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<220>
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aaccctggtg gtcgagg 17

<210> 8155
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<220>
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<400> 8155
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<210> 8197
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<220>
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<210> 8212
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<220>
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<210> 8254
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<210> 8255
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aacttaccac tttgtcc 17

<210> 8257
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<220>
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gcacaggcaa cgtcaga 17

<210> 8258
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gagaaaccac agacaaa 17

<210> 8259
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<210> 8261
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<220>
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<210> 8262
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<220>
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tgaagaaaaa tgatgaa 17

<210> 8263
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<220>
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<210> 8264
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<220>
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<220>
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<400> 8267
aaaaaacaaa aaagtct 17

<210> 8268
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cttaaagagt agaaagg 17

<210> 8269
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gaaccttaaa gagtaga 17

<210> 8270
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<210> 8271
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<400> 8271
aggaactctg aacctta 17

<210> 8272
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<400> 8272
agtcatgtag aggaact 17

<210> 8273
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<400> 8273
catactgagt catgtag 17

<210> 8274
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acatactgag tcatgta 17

<210> 8275
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ttacatactg agtcatg 17

<210> 8276
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<210> 8277
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<400> 8277
cacaacctca cagaaga 17

<210> 8278
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<400> 8278
aacccgcagg ccggggagga 20

<210> 8279
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<210> 8281
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<400> 8284
tgaggactgc agcaggcggc 20

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<210> 8286
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<210> 8287
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<400> 8287
gtgtccctcc cgcgccctag 20

<210> 8288
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<210> 8289
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<210> 8290
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<210> 8291
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<220>
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<400> 8291
acggacggtg ctgcgggcac 20

<210> 8292
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<400> 8292
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<210> 8293
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<210> 8294
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<210> 8295
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<220>
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<400> 8295
tcctcctgca gctcagaccc 20

<210> 8296
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cctcctgcag ctcagacccg 20

<210> 8297
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<400> 8297
tgcagctcag acccgagggg 20

<210> 8298
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gcagctcaga cccgaggggc 20

<210> 8299
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<210> 8300
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<210> 8301
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<210> 8302
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<220>
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<210> 8303
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<220>
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<400> 8303
gggccgggaa ggggcctgag 20

<210> 8304
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<220>
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<400> 8304
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<210> 8305
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<400> 8305
gccgggaagg ggcctgagca 20

<210> 8306
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<220>
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<400> 8306
gggaaggggc ctgagcaggg 20

<210> 8307
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<220>
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<400> 8307
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<210> 8308
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<400> 8308
agggaaggga cacaggcgtc 20

<210> 8309
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<220>
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<400> 8309
aggcgtcctg aaacaaagct 20

<210> 8310
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<220>
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<400> 8310
tcctgaaaca aagctttggg 20

<210> 8311
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<220>
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<400> 8311
ctgaaacaaa gctttgggtt 20

<210> 8312
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<220>
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<400> 8312
acaaagcttt gggttgaggg 20

<210> 8313
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<220>
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<400> 8313
gctttgggtt gagggcagag 20

<210> 8314
<211> 20
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<220>
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<400> 8314
tttgggttga gggcagaggc 20

<210> 8315
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<220>
<223> Synthetic oligonucleotide: CBLB-2069

<400> 8315
ttgggttgag ggcagaggcg 20

<210> 8316
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<220>
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<400> 8316
tgagggcaga ggcgaggagc 20

<210> 8317
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<220>
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<400> 8317
agggcagagg cgaggagcca 20

<210> 8318
<211> 20
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<220>
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<400> 8318
agaggcgagg agccagagaa 20

<210> 8319
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<220>
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<400> 8319
tttctctttt ctcttttcaa 20

<210> 8320
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<400> 8320
gtgttaattt catttggttc 20

<210> 8321
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<210> 8322
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<210> 8323
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<220>
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<210> 8324
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<210> 8327
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<210> 8328
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<210> 8329
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ctttatgttt atgtaacttg 20

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gtgttgctct tagataacaa 20

<210> 8332
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gacaatcatc tggtatgata 20

<210> 8333
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<220>
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tatgatactg aaaatattta 20

<210> 8334
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<220>
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<400> 8334
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<210> 8335
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tgatactgaa aatatttact 20

<210> 8336
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<210> 8337
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<400> 8337
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<210> 8338
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<400> 8338
agaaacagat tagttcttaa 20

<210> 8339
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<400> 8339
aacagattag ttcttaagtg 20

<210> 8340
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<400> 8340
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<210> 8341
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<400> 8341
taagtgaaga agcagtagtt 20

<210> 8342
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<400> 8342
aagtgaagaa gcagtagttg 20

<210> 8343
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agtgaagaag cagtagttga 20

<210> 8344
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gggagtttcc attttcatct 20

<210> 8345
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gagtttccat tttcatcttt 20

<210> 8346
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tttgagaatt catcttcatt 20

<210> 8347
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<220>
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agaaactttt tttgttgtta 20

<210> 8348
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<220>
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<210> 8349
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<220>
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aaacttttt tgttgttaat 20

<210> 8350
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<210> 8352
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<400> 8352
tctactattc cattttgaaa 20

<210> 8353
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<220>
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<400> 8353
ctactattcc attttgaaac 20

<210> 8354
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<210> 8355
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<220>
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<400> 8355
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<210> 8356
<211> 20
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<220>
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<400> 8356
ggcacattgt ttattgtgaa 20

<210> 8357
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<210> 8358
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<210> 8359
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<220>
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<210> 8360
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<220>
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gaaaatttat gttgggggtg 20

<210> 8361
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ttatgttggg ggtggtgagg 20

<210> 8362
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<220>
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<400> 8362
atgttggggg tggtgaggct 20

<210> 8363
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<220>
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ggtggtgagg ctgagagtat 20

<210> 8364
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<220>
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cagacaaact ataatttcac 20

<210> 8365
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<220>
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<400> 8365
acaaactata atttcacaag 20

<210> 8366
<211> 20
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<220>
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<400> 8366
tttcacaaga agaaatcatg 20

<210> 8367
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<400> 8367
tcatgatggg tgtcagtatc 20

<210> 8368
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<400> 8368
atgatgggtg tcagtatcca 20

<210> 8369
<211> 20
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<400> 8369
cagtatccag agaagtcaat 20

<210> 8370
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<400> 8370
aagtcaatct gaatacctta 20

<210> 8371
<211> 20
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<400> 8371
ataccttaca gagatttact 20

<210> 8372
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<400> 8372
ccgcaggccg gggagga 17

<210> 8373
<211> 17
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<400> 8373
gcaggccggg gaggagg 17

<210> 8374
<211> 17
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<400> 8374
aggccgggga ggaggga 17

<210> 8375
<211> 17
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<400> 8375
cgtccaggca gacggcg 17

<210> 8376
<211> 17
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<400> 8376
tccaggcaga cggcggt 17

<210> 8377
<211> 17
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aggactgcag caggcgg 17

<210> 8378
<211> 17
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ggactgcagc aggcggc 17

<210> 8379
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<400> 8379
gactgcagca ggcggcc 17

<210> 8380
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<400> 8380
gcgcgtccac ccaggcg 17

<210> 8381
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<220>
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<400> 8381
tccctcccgc gccctag 17

<210> 8382
<211> 17
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<220>
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<400> 8382
cctagacgga cggtgct 17

<210> 8383
<211> 17
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<220>
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<400> 8383
cggacggtgc tgcgggc 17

<210> 8384
<211> 17
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<220>
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<400> 8384
ggacggtgct gcgggca 17

<210> 8385
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<220>
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<400> 8385
gacggtgctg cgggcac 17

<210> 8386
<211> 17
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<220>
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<400> 8386
cggtgctgcg ggcacgg 17

<210> 8387
<211> 17
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<220>
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<400> 8387
ggtgctgcgg gcacggg 17

<210> 8388
<211> 17
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<220>
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<400> 8388
cctcctgcag ctcagac 17

<210> 8389
<211> 17
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<220>
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<400> 8389
tcctgcagct cagaccc 17

<210> 8390
<211> 17
<212> DNA
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<220>
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<400> 8390
cctgcagctc agacccg 17

<210> 8391
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<220>
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agctcagacc cgagggg 17

<210> 8392
<211> 17
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<220>
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gctcagaccc gaggggc 17

<210> 8393
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<220>
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ctcagacccg aggggcc 17

<210> 8394
<211> 17
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<220>
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agacccgagg ggccggg 17

<210> 8395
<211> 17
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<220>
<223> Synthetic oligonucleotide: CBLB-2130

<400> 8395
gacccgaggg gccggga 17

<210> 8396
<211> 17
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<220>
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<400> 8396
aggggccggg aaggggc 17

<210> 8397
<211> 17
<212> DNA
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<220>
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<400> 8397
ccgggaaggg gcctgag 17

<210> 8398
<211> 17
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<220>
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cgggaagggg cctgagc 17

<210> 8399
<211> 17
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<220>
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<400> 8399
gggaaggggc ctgagca 17

<210> 8400
<211> 17
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<400> 8400
aaggggcctg agcaggg 17

<210> 8401
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cacaagaaga aatcatg 17

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ccttacagag atttact 17

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<210> 8486
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<210> 8488
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<210> 8489
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acaagagcgg ccacggaaag 20

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agagaaaaga gaaaaatgac 20

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acacaaatag cccatttgaa 20

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ttaacacaca aatagcccat 20

<210> 8503
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<220>
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tcgttattcc caagaaccaa 20

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cgcggtgagt cgttattccc 20

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cctttcttta aatcaacgcg 20

<210> 8506
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aaaccaccaa gtacggacac 20

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ccacactaaa accaccaagt 20

<210> 8508
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ctctgttgtc aacaaaagcg 20

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agattatcct acacaaacgt 20

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caacacaacc tcacagaaga 20

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ctaagagcaa cacaacctca 20

<210> 8513
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<210> 8514
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caactactgc ttcttcactt 20

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tgaattctca aagatgaaaa 20

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atgaattctc aaagatgaaa 20

<210> 8518
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aaaaaagttt cttaatgaag 20

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acaacaaaaa aagtttctta 20

<210> 8521
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caaaatggaa tagtagatga 20

<210> 8522
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gtttcaaaat ggaatagtag 20

<210> 8523
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aaaggtttcc tgtttcaaaa 20

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gtttgtctga aagcaacatg 20

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cactgtgggc tcggcgc 17

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caccgtccgt ctagggc 17

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ggccccttcc cggcccc 17

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aacccaaagc tttgttt 17

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gagcggccac ggaaagg 17

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agagcggcca cggaaag 17

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caagagcggc cacggaa 17

<210> 8561
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acaagagcgg ccacgga 17

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aatgacaaga gcggcca 17

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aaatgacaag agcggcc 17

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gaaaagagaa aaatgac 17

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<400> 8565
catttgaaaa gagaaaa 17

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<400> 8566
cccatttgaa aagagaa 17

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aatagcccat ttgaaaa 17

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caaatagccc atttgaa 17

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acacacaaat agcccat 17

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ggtgagtcgt tattccc 17

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ttctttaaat caacgcg 17

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cactaaaacc accaagt 17

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tgttgtcaac aaaagcg 17

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tatcctacac aaacgta 17

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cacaacctca cagaaga 17

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cataccagat gattgtc 17

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ctactgcttc ttcactt 17

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attctcaaag atgaaaa 17

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aattctcaaa gatgaaa 17

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aatggaatag tagatga 17

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tcaaaatgga atagtag 17

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ggtttcctgt ttcaaaa 17

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aggtttcctg tttcaaa 17

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caataaacaa tgtgcca 17

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gcaacatgca gaaacca 17

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tgtctgaaag caacatg 17

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<220>
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<400> 8595
gtgaaattat agtttgt 17

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catcatgatt tcttctt 17

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tattcagatt gacttct 17

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actgacagct acagttt 17

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aatcatactt agtaagg 17

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ttcactttgt ctgtggtttc 20

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ccattgttat ggcaacaatc 20

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aactctgtgt tttttgaaaa 20

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cttaaaacta ctgtgtg 17

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actttgtctg tggtttc 17

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tctgtgtttt ttgaaaa 17

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<400> 8608
ttctccaagt tacataaaca 20

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agaaacttca ctttcactct 20

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gtagttttaa gagcagtgat 20

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attagagcaa aaccaaaagt 20

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tgtaccactg catcttcctc 20

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ggaattttag ttctttaaaa 20

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<210> 8615
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aaaaatgatg aattgaaatc 20

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agagcaaaac caaaagt 17

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accactgcat cttcctc 17

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<400> 8621
attttagttc tttaaaa 17

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aatgatgaat tgaaatc 17

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ttgggaataa cgactcaccg 20

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<220>
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aaatatttac tggggaaaga 20

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aagtcaatct gaatacctta 20

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tcagtatcct accttactaa 20

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ggaataacga ctcaccg 17

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tatttactgg ggaaaga 17

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tcaatctgaa tacctta 17

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gtatcctacc ttactaa 17

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<223> Synthetic oligonucleotide: CBLB-1998

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ttctccaagt tacataaaca 20

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aatattttca gtatcatacc 20

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tctctggata ctgacaccca 20

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gagtaaatct ctgtaaggta 20

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tccaagttac ataaaca 17

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attttcagta tcatacc 17

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ctggatactg acaccca 17

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taaatctctg taaggta 17

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gacugacauc aacucca 17

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gacugcgugc ccugccaaga 20

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gagggcucac cagagguagg 20

<210> 8643
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gcgugcccug ccaagaa 17

<210> 8644
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gcuagggacu gcacagucaa 20

<210> 8645
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<400> 8645
gcucaccaga gguagga 17

<210> 8646
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ggacugcaca gucaaug 17

<210> 8647
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ggcucaccag agguagg 17

<210> 8648
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aacaugcaga aagcacagaa 20

<210> 8756
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<210> 8757
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<210> 8758
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<210> 8759
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<210> 8761
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<210> 8762
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<210> 8763
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<210> 8766
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<210> 8767
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<210> 8771
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uggaaauaaa cugcacc 17

<210> 8773
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<400> 8773
uuuucuagau gugaaca 17

<210> 8774
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<400> 8774
ugaacaugga aucauca 17

<210> 8775
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ccuguaggua uugaaau 17

<210> 8791
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<210> 8804
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<210> 8805
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guuuccuaga aagcaaaaaa 20

<210> 8809
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<210> 8810
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<210> 8811
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<400> 8811
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<210> 8812
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<400> 8812
aacuuacccc aaacaauuag 20

<210> 8813
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ccccaaacaa uuaguggaau 20

<210> 8814
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aagccacccc aaguuagauc 20

<210> 8815
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aaguuagauc uggauccugu 20

<210> 8816
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<210> 8817
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<210> 8818
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<210> 8819
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guuugguuua caucugcacu 20

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<210> 8828
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<210> 8829
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ugcaagagua caaagau 17

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ucuguucugc ugugucu 17

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cuugaucuca ucuauuu 17

<210> 8836
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<400> 8836
caugacucca gcaauag 17

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<400> 8837
uccuagaaag caaaaaa 17

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uuaccccaaa caauuag 17

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caaacaauua guggaau 17

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ccaccccaag uuagauc 17

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uuagaucugg auccugu 17

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ugguuuacau cugcacu 17

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ucugcacuug guauucu 17

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acaaccaugc ugggcau 17

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ggacccuccu accucug 17

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gaugcccagc augguuguug 20

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augcccagca ugguuguuga 20

<210> 8873
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agagggcuca ccagagg 17

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gagggcucac cagaggu 17

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<210> 8878
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gaugcccagc augguug 17

<210> 8879
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augcccagca ugguugu 17

<210> 8880
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ugcccagcau gguuguu 17

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gcccagcaug guuguug 17

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<400> 8882
cccagcaugg uuguuga 17

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ccagcauggu uguugag 17

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aagugacuga caucaacucc 20

<210> 8885
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agugacugac aucaacucca 20

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cugacaucaa cuccaaggga 20

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<210> 8889
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acuccaaggg auuggaauug 20

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<210> 8893
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cuacaguuga gacucagaac 20

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<400> 8895
gguauguuac acaaaacauc 20

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ugacugacau caacucc 17

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gacugacauc aacucca 17

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acaucaacuc caaggga 17

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caucaacucc aagggau 17

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acuccaaggg auuggaa 17

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uccaagggau uggaauu 17

<210> 8902
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gaagacuguu acuacag 17

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auguuacaca aaacauc 17

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ggauguuuug uguaacauac 20

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uguguaacau accuggagga 20

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cuggaggaca gggcuuaugg 20

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ugaugcaggc cuuccaaguu 20

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cuuccucaau uccaaucccu 20

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<400> 8916
uuggaguuga ugucagucac 20

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<210> 8918
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<210> 8919
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<210> 8920
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<400> 8920
accuguaaaa uaaaagcaug 20

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uuuguguaac auaccug 17

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guaacauacc uggagga 17

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accuguaaaa uaaaagc 17

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uaaaauaaaa gcaugaa 17

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cuccuuuuuu ccuugggcag 20

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uuuuuuccuu gggcagguga 20

<210> 8939
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uuuuuccuug ggcaggugaa 20

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uagggacugc acaguca 17

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ugcccugcca agaaggg 17

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gcccugccaa gaaggga 17

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cauuuuucuu ccaaaug 17

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aagauguaga uugugug 17

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auguagauug ugugaug 17

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gugaugaagg acauggu 17

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ucuacaucuu cugcauuugg 20

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cuucugcauu uggaagaaaa 20

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<220>
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uguacuccuu cccuucuugg 20

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<220>
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agcuuuccuu ucaccugccc 20

<210> 8986
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gcuuuccuuu caccugccca 20

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aucuacaucu ucugcau 17

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ucuacaucuu cugcauu 17

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acaucuucug cauuugg 17

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cugcauuugg aagaaaa 17

<210> 8993
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acuccuuccc uucuugg 17

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uuuccuuuca ccugccc 17

<210> 8995
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uuccuuucac cugccca 17

<210> 8996
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accugcccaa ggaaaaa 17

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ccaaacugau uuucuaggcu 20

<210> 8999
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<210> 9000
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<210> 9001
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gaaguggaaa uaaacugcac 20

<210> 9002
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aaauaaacug cacccggacc 20

<210> 9003
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<220>
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uuuuuguaac ucuacuguau 20

<210> 9004
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cuguauuuuu uuuucuagau 20

<210> 9005
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<220>
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uuuuuuuucu agaugugaac 20

<210> 9006
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uuuuuuucua gaugugaaca 20

<210> 9007
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gaugugaaca uggaaucauc 20

<210> 9008
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<220>
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<400> 9008
augugaacau ggaaucauca 20

<210> 9009
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<210> 9010
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<220>
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ccagcaacac caagugcaaa 20

<210> 9011
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<220>
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<210> 9012
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<220>
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<400> 9012
auguccaaug uuccaaccua 20

<210> 9013
<211> 20
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<220>
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cuacaggauc cagaucuaac 20

<210> 9014
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<210> 9015
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<210> 9016
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<220>
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ugccaauucc acuaauuguu 20

<210> 9017
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<220>
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aaaauuucuu uguucuuuca 20

<210> 9018
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<210> 9019
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<220>
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uuguucuuuc agugaagaga 20

<210> 9021
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<220>
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uguucuuuca gugaagagaa 20

<210> 9022
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<400> 9022
cagugaagag aaaggaagua 20

<210> 9023
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<220>
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<400> 9023
aaggaaguac agaaaacaug 20

<210> 9024
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<220>
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cagaaaacau gcagaaagca 20

<210> 9025
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<220>
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aaacaugcag aaagcacaga 20

<210> 9026
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<220>
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aacaugcaga aagcacagaa 20

<210> 9027
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<220>
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<210> 9028
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<210> 9242
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<210> 9248
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<210> 9258
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<210> 9259
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<220>
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gagcucacga aaagccc 17

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gaaaagcccc ggugguc 17

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<220>
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guucaaccug ggaaguu 17

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<210> 9282
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cagguguuca aagacgcuuc 20

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acccgcucag uacggaguug 20

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uuggggaagc ucuuucacuu 20

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cccgucuuag ucccggggau 20

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cgccccacuu ugccuauccc 20

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<400> 9293
ccuauccccg ggacuaagac 20

<210> 9294
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agacggggua agccuccacc 20

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<210> 9302
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<210> 9304
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<400> 9306
uguaguucaa ccugggaagu 20

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ucacucagag aaagacuugc 20

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<400> 9309
uguuguggcu gcaacaugag 20

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ugcgccauag ggcucugaaa 20

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ccauagggcu cugaaaaggg 20

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<210> 9314
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<400> 9314
ccgggcguuc cccagcg 17

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ccgcucagua cggaguu 17

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<400> 9318
cgcucaguac ggaguug 17

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uuaccccguc uuagucc 17

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uaccccgucu uaguccc 17

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accccgucuu agucccg 17

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ccggggauag gcaaagu 17

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<400> 9325
cccacuuugc cuauccc 17

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uaucccggg acuaaga 17

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aucccggga cuaagac 17

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aagccccggu ggucagg 17

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<400> 9342
cugcuguagu ucaaccu 17

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<400> 9343
aguucaaccu gggaagu 17

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uugcggggca uuugacu 17

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<400> 9347
uguggcugca acaugag 17

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<400> 9348
aggcucacag acguuuc 17

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gaagaggcag cuccgcc 17

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<400> 9354
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gaccucccca acuuccc 17

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gagaaauaaa aacuaag 17

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gagaagaggc agcuccgccu 20

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gagggcucac cagaggu 17

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<400> 9366
gaggguccag augcccagca 20

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<400> 9367
gaggucuuga aggagaa 17

<210> 9368
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<220>
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<400> 9368
gauaggcaaa guggggc 17

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gaugggaagg aagccucgcu 20

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<220>
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gauugcucaa caaccaugcu 20

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<210> 9372
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<400> 9373
gcagaagccu uuagaaa 17

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gcagcuccgc cugggcagcc 20

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gccagcccug gcugccc 17

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<400> 9376
gccagcccug gcugcccagg 20

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gccagugccc gccccug 17

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gccccacuuu gccuaucccc 20

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gccccggugg ucaggaggau 20

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gcccucuccu gcccgggugg 20

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<210> 9383
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<220>
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<400> 9383
gccuccaccc gggcaggaga 20

<210> 9384
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<400> 9385
gccugggcag ccagggc 17

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<400> 9386
gcgcagaggu ccugccu 17

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<400> 9388
gcggcagcgg cgcacgc 17

<210> 9389
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<220>
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gcggcggcag cggcgcacgc 20

<210> 9390
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<220>
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<400> 9391
gcucaccaga gguagga 17

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gcuccgccug ggcagcc 17

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<400> 9393
gcugccucuu cucccgc 17

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<220>
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<400> 9394
gcuggagccu caggggc 17

<210> 9395
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gcuggggaac gcccggguug 20

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<400> 9396
ggaaggaagc cucgcug 17

<210> 9397
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<220>
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<210> 9398
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<400> 9399
ggagaagagg cagcuccgcc 20

<210> 9400
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<400> 9401
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<210> 9402
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<220>
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<400> 9402
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<210> 9403
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<220>
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<400> 9403
ggagcugccu cuucucccgc 20

<210> 9404
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<210> 9405
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<400> 9405
ggcagccagg gcuggccuca 20

<210> 9406
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<400> 9406
ggcaggagag ggcucaccag 20

<210> 9407
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<400> 9407
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ggguaagccu ccacccgggc 20

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<210> 9433
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gugaauguuu aauauagcug 20

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<210> 9442
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<220>
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<400> 9442
guucaaagac gcuucug 17

<210> 9443
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aaagacgcuu cuggggagug 20

<210> 9444
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<210> 9449
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<220>
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<210> 9451
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<220>
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aauguuuaau auagcug 17

<210> 9456
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<210> 9459
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acucagagaa agacuug 17

<210> 9462
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<220>
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<210> 9463
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agaagucagg gugagga 17

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agcaugccag ccacugc 17

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<220>
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agggcucacc agagguagga 20

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agucccgggg auaggcaaag 20

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agugacuugg cuggagccuc 20

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aguuuuuauu ucucaag 17

<210> 9491
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aucuguacuu uuucaua 17

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<210> 9494
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auguugcagc cacaaca 17

<210> 9495
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caaaugggca uuccuguccc 20

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caaggcuccu guacccaggc 20

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<210> 9505
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cacugcagga acgcccc 17

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<210> 9508
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<220>
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<210> 9517
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<210> 9518
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cauccuccug accaccg 17

<210> 9520
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<220>
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caucuggacc cuccuaccuc 20

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ccaacuccgu acugagc 17

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ccaaguugcu gaaucaa 17

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ccacuuugcc uaucccc 17

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ccauccuccu gaccacc 17

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cccauccucc ugaccac 17

<210> 9530
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cccggugguc aggagga 17

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cccuuuucag agcccua 17

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gauggaaagc ccucagg 17

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gggucgcugg agggggaccc 20

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<210> 9778
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<210> 9779
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accccgguug gagagaggag 20

<210> 9780
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ggagagagga gcggaacucc 20

<210> 9781
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<210> 9782
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gccaagccaa agguccgcuc 20

<210> 9783
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<400> 9783
gccaaagguc cgcuccggcg 20

<210> 9784
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<223> Synthetic oligonucleotide: FAS-1945

<400> 9784
ccaaaggucc gcuccggcgc 20

<210> 9785
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<220>
<223> Synthetic oligonucleotide: FAS-1946

<400> 9785
aagguccgcu ccggcgcggg 20

<210> 9786
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<220>
<223> Synthetic oligonucleotide: FAS-1947

<400> 9786
agguccgcuc cggcgcgggu 20

<210> 9787
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<220>
<223> Synthetic oligonucleotide: FAS-1948

<400> 9787
ggugagugcg cgccgccccg 20

<210> 9788
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<220>
<223> Synthetic oligonucleotide: FAS-1949

<400> 9788
gugagugcgc gccgccccgc 20

<210> 9789
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<220>
<223> Synthetic oligonucleotide: FAS-1950

<400> 9789
ugagugcgcg ccgccccgcg 20

<210> 9790
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<220>
<223> Synthetic oligonucleotide: FAS-1951

<400> 9790
gagugcgcgc cgccccgcgg 20

<210> 9791
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<220>
<223> Synthetic oligonucleotide: FAS-1952

<400> 9791
ugcgcgccgc cccgcggggg 20

<210> 9792
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<220>
<223> Synthetic oligonucleotide: FAS-1953

<400> 9792
gcgcgccgcc ccgcgggggc 20

<210> 9793
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<220>
<223> Synthetic oligonucleotide: FAS-1954

<400> 9793
cgcgccgccc cgcgggggcg 20

<210> 9794
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<220>
<223> Synthetic oligonucleotide: FAS-1955

<400> 9794
aacagauauu gcucauuuuc 20

<210> 9795
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<220>
<223> Synthetic oligonucleotide: FAS-1956

<400> 9795
uucuggcagu ucucagacgu 20

<210> 9796
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<220>
<223> Synthetic oligonucleotide: FAS-1957

<400> 9796
auaagucagc accgaagcag 20

<210> 9797
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<220>
<223> Synthetic oligonucleotide: FAS-1958

<400> 9797
caccgaagca gugguuaagc 20

<210> 9798
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<220>
<223> Synthetic oligonucleotide: FAS-1959

<400> 9798
cgaagcagug guuaagccgg 20

<210> 9799
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<220>
<223> Synthetic oligonucleotide: FAS-1960

<400> 9799
gaagcagugg uuaagccgga 20

<210> 9800
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<220>
<223> Synthetic oligonucleotide: FAS-1961

<400> 9800
agugguuaag ccggagggcu 20

<210> 9801
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<220>
<223> Synthetic oligonucleotide: FAS-1962

<400> 9801
agccggaggg cucggaagaa 20

<210> 9802
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<220>
<223> Synthetic oligonucleotide: FAS-1963

<400> 9802
ucuuucucga aaaaguuaua 20

<210> 9803
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<220>
<223> Synthetic oligonucleotide: FAS-1964

<400> 9803
cuuucucgaa aaaguuauau 20

<210> 9804
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<220>
<223> Synthetic oligonucleotide: FAS-1965

<400> 9804
uuucucgaaa aaguuauaug 20

<210> 9805
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<220>
<223> Synthetic oligonucleotide: FAS-1966

<400> 9805
uucucgaaaa aguuauaugg 20

<210> 9806
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<220>
<223> Synthetic oligonucleotide: FAS-1967

<400> 9806
ucucgaaaaa guuauauggg 20

<210> 9807
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<220>
<223> Synthetic oligonucleotide: FAS-1968

<400> 9807
cucgaaaaag uuauaugggg 20

<210> 9808
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<223> Synthetic oligonucleotide: FAS-1969

<400> 9808
ucgaaaaagu uauaugggg 20

<210> 9809
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<400> 9809
cggcgcacgc gggcacc 17

<210> 9810
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<400> 9810
ggcgcacgcg ggcaccu 17

<210> 9811
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<400> 9811
acgcgggcac cugggag 17

<210> 9812
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<220>
<223> Synthetic oligonucleotide: FAS-1973

<400> 9812
cgggcaccug ggagcgg 17

<210> 9813
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<400> 9813
gggcaccugg gagcggc 17

<210> 9814
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<220>
<223> Synthetic oligonucleotide: FAS-1975

<400> 9814
ggagcggcgg gcugcug 17

<210> 9815
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<223> Synthetic oligonucleotide: FAS-1976

<400> 9815
gagcggcggg cugcugc 17

<210> 9816
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-1977

<400> 9816
cggcgggcug cugcggg 17

<210> 9817
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<220>
<223> Synthetic oligonucleotide: FAS-1978

<400> 9817
gcugcugcgg gaggcgu 17

<210> 9818
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-1979

<400> 9818
cgggaggcgu uggagac 17

<210> 9819
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<220>
<223> Synthetic oligonucleotide: FAS-1980

<400> 9819
cguuggagac uggcucc 17

<210> 9820
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<220>
<223> Synthetic oligonucleotide: FAS-1981

<400> 9820
guuggagacu ggcuccc 17

<210> 9821
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<220>
<223> Synthetic oligonucleotide: FAS-1982

<400> 9821
uuggagacug gcucccg 17

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<220>
<223> Synthetic oligonucleotide: FAS-1983

<400> 9822
uggagacugg cucccgg 17

<210> 9823
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<220>
<223> Synthetic oligonucleotide: FAS-1984

<400> 9823
ggcucccggg ggcuguu 17

<210> 9824
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<220>
<223> Synthetic oligonucleotide: FAS-1985

<400> 9824
uguuaggacc uucccuc 17

<210> 9825
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<220>
<223> Synthetic oligonucleotide: FAS-1986

<400> 9825
ggaccuuccc ucaggcc 17

<210> 9826
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<220>
<223> Synthetic oligonucleotide: FAS-1987

<400> 9826
gaccuucccu caggccc 17

<210> 9827
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<400> 9827
ccgggugcuc agaacgc 17

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<400> 9828
ggugcucaga acgcugg 17

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<400> 9829
ggaggacuug cuuuucu 17

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<400> 9830
gaggacuugc uuuucuu 17

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<400> 9831
cgaagugcug accccgc 17

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<400> 9832
gaagugcuga ccccgcu 17

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<400> 9833
ugcugacccc gcugggc 17

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<400> 9834
ugaccccgcu gggcagg 17

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<400> 9835
gaccccgcug ggcaggc 17

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<220>
<223> Synthetic oligonucleotide: FAS-1997

<400> 9836
accccgcugg gcaggcg 17

<210> 9837
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-1998

<400> 9837
ggcaggcggg gcagcuc 17

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<220>
<223> Synthetic oligonucleotide: FAS-1999

<400> 9838
gcagcuccgg cgcuccu 17

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<400> 9839
cacugcgcuc cacguug 17

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<400> 9840
ugcgcuccac guugagg 17

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<220>
<223> Synthetic oligonucleotide: FAS-2002

<400> 9841
gcgcuccacg uugaggu 17

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<220>
<223> Synthetic oligonucleotide: FAS-2003

<400> 9842
ccacguugag gugggcg 17

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<220>
<223> Synthetic oligonucleotide: FAS-2004

<400> 9843
cacguugagg ugggcgu 17

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<220>
<223> Synthetic oligonucleotide: FAS-2005

<400> 9844
acguugaggu gggcgug 17

<210> 9845
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<220>
<223> Synthetic oligonucleotide: FAS-2006

<400> 9845
gaggugggcg uggggug 17

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<220>
<223> Synthetic oligonucleotide: FAS-2007

<400> 9846
gggcgugggg ugcggac 17

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<400> 9847
gcggacagga auugaag 17

<210> 9848
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<220>
<223> Synthetic oligonucleotide: FAS-2009

<400> 9848
gaauugaagc ggaaguc 17

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<220>
<223> Synthetic oligonucleotide: FAS-2010

<400> 9849
aauugaagcg gaagucu 17

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<223> Synthetic oligonucleotide: FAS-2011

<400> 9850
gaagucuggg aagcuuu 17

<210> 9851
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<220>
<223> Synthetic oligonucleotide: FAS-2012

<400> 9851
aagucuggga agcuuua 17

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<220>
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<400> 9852
ggaagcuuua gggucgc 17

<210> 9853
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<220>
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<400> 9853
agcuuuaggg ucgcugg 17

<210> 9854
<211> 17
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<220>
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<400> 9854
gcuuuagggu cgcugga 17

<210> 9855
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<220>
<223> Synthetic oligonucleotide: FAS-2016

<400> 9855
cuuuaggguc gcuggag 17

<210> 9856
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<220>
<223> Synthetic oligonucleotide: FAS-2017

<400> 9856
uuuagggucg cuggagg 17

<210> 9857
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<220>
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<400> 9857
ucgcuggagg gggaccc 17

<210> 9858
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<220>
<223> Synthetic oligonucleotide: FAS-2019

<400> 9858
uggaggggga ccccggu 17

<210> 9859
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<400> 9859
ggaccccggu uggagag 17

<210> 9860
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ccgguuggag agaggag 17

<210> 9861
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<220>
<223> Synthetic oligonucleotide: FAS-2022

<400> 9861
gagaggagcg gaacucc 17

<210> 9862
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<220>
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<400> 9862
cugacaagcc aagccaa 17

<210> 9863
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<220>
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<400> 9863
aagccaaagg uccgcuc 17

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<220>
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<400> 9864
aaagguccgc uccggcg 17

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<220>
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aagguccgcu ccggcgc 17

<210> 9866
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<220>
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<400> 9866
guccgcuccg gcgcggg 17

<210> 9867
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<220>
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<400> 9867
uccgcuccgg cgcgggu 17

<210> 9868
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<220>
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<400> 9868
gagugcgcgc cgccccg 17

<210> 9869
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<220>
<223> Synthetic oligonucleotide: FAS-2030

<400> 9869
agugcgcgcc gccccgc 17

<210> 9870
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<220>
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<400> 9870
gugcgcgccg ccccgcg 17

<210> 9871
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<220>
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<400> 9871
ugcgcgccgc cccgcgg 17

<210> 9872
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<220>
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<400> 9872
gcgccgcccc gcggggg 17

<210> 9873
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<220>
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<400> 9873
cgccgccccg cgggggc 17

<210> 9874
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<220>
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<400> 9874
gccgccccgc gggggcg 17

<210> 9875
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-2036

<400> 9875
agauauugcu cauuuuc 17

<210> 9876
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<220>
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<400> 9876
uggcaguucu cagacgu 17

<210> 9877
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<220>
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agucagcacc gaagcag 17

<210> 9878
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<220>
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cgaagcagug guuaagc 17

<210> 9879
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<220>
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agcagugguu aagccgg 17

<210> 9880
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<220>
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gcagugguua agccgga 17

<210> 9881
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<220>
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gguuaagccg gagggcu 17

<210> 9882
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<220>
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cggagggcuc ggaagaa 17

<210> 9883
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<220>
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<400> 9883
uucucgaaaa aguuaua 17

<210> 9884
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<220>
<223> Synthetic oligonucleotide: FAS-2045

<400> 9884
ucucgaaaaa guuauau 17

<210> 9885
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<220>
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<400> 9885
cucgaaaaag uuauaug 17

<210> 9886
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<220>
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<400> 9886
ucgaaaaagu uauaugg 17

<210> 9887
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<220>
<223> Synthetic oligonucleotide: FAS-2048

<400> 9887
cgaaaaaguu auauggg 17

<210> 9888
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<220>
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<400> 9888
gaaaaaguua uaugggg 17

<210> 9889
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<220>
<223> Synthetic oligonucleotide: FAS-2050

<400> 9889
aaaaaguuau auggggg 17

<210> 9890
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<220>
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<400> 9890
uaacuuuuuc gagaaagaaa 20

<210> 9891
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<220>
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<400> 9891
ugccguucuu ccgagcccuc 20

<210> 9892
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<220>
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<400> 9892
cuccggcuua accacugcuu 20

<210> 9893
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<220>
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<400> 9893
augagcaaua ucuguucuga 20

<210> 9894
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<220>
<223> Synthetic oligonucleotide: FAS-2055

<400> 9894
auaucuguuc ugaaggcugc 20

<210> 9895
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<220>
<223> Synthetic oligonucleotide: FAS-2056

<400> 9895
aggcucucuc cccgcccccg 20

<210> 9896
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<220>
<223> Synthetic oligonucleotide: FAS-2057

<400> 9896
ggcucucucc ccgcccccgc 20

<210> 9897
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<220>
<223> Synthetic oligonucleotide: FAS-2058

<400> 9897
gcucucuccc cgcccccgcg 20

<210> 9898
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<220>
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<400> 9898
cucucccccgc ccccgcgggg 20

<210> 9899
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<220>
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<400> 9899
gcgcacucac ccacccgcgc 20

<210> 9900
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<220>
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cucacccacc cgcgccggag 20

<210> 9901
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<220>
<223> Synthetic oligonucleotide: FAS-2062

<400> 9901
cccgcgccgg agcggaccuu 20

<210> 9902
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<220>
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<400> 9902
gccggagcgg accuuuggcu 20

<210> 9903
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<220>
<223> Synthetic oligonucleotide: FAS-2064

<400> 9903
gaccuuuggc uuggcuuguc 20

<210> 9904
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<220>
<223> Synthetic oligonucleotide: FAS-2065

<400> 9904
accuuuggcu uggcuuguca 20

<210> 9905
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: FAS-2066

<400> 9905
uggcuuguca gggcuugucc 20

<210> 9906
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<220>
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<400> 9906
guuccgcucc ucucuccaac 20

<210> 9907
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<220>
<223> Synthetic oligonucleotide: FAS-2068

<400> 9907
uuccgcuccu cucuccaacc 20

<210> 9908
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<220>
<223> Synthetic oligonucleotide: FAS-2069

<400> 9908
uccgcuccuc ucuccaaccg 20

<210> 9909
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<210> 9928
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<210> 9929
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ucuguucuga aggcugc 17

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ucucucccg cccccgc 17

<210> 9932
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uccccgcccc cgcgggg 17

<210> 9934
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<210> 9936
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gcgccggagc ggaccuu 17

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ggagcggacc uuuggcu 17

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uuuggcuugg cuuguca 17

<210> 9940
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<400> 9940
cuugucaggg cuugucc 17

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cgcuccucuc uccaacc 17

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gcuccucucu ccaaccg 17

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<210> 9946
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<210> 9947
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<210> 9949
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ugccccgccu gcccagc 17

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<210> 9955
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<210> 9958
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<210> 9959
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<220>
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acgaaggaca ggaaguaauu 20

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auugugaaug uuuaauauag 20

<210> 9962
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<220>
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<210> 9963
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<210> 9964
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auaugguuaa cuguccauuc 20

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uguccauucc agaaacgucu 20

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<210> 9971
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ccaaggcucc uguacccagg 20

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gaccucccca acuucccagg 20

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gcagaagccu uuagaaaggg 20

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<210> 9980
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aaagggcagg aggccggcuc 20

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ucucgagguc cucaccugaa 20

<210> 9983
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agugagcaug ccagccacug 20

<210> 9984
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<400> 9985
ccagccacug caggaacgcc 20

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cagccacugc aggaacgccc 20

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acugcaggaa cgccccggga 20

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caggccaagu ugcugaauca 20

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<220>
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aggccaaguu gcugaaucaa 20

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ucaauggagc ccucccccaac 20

<210> 9994
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cccaacccgg gcguucccca 20

<210> 9995
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<400> 9995
ccuucccauc cuccugacca 20

<210> 9996
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<220>
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<400> 9996
cuucccaucc uccugaccac 20

<210> 9997
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<220>
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<400> 9997
ccugaccacc ggggcuuuuc 20

<210> 9998
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gcucgucucu gaucucgcgc 20

<210> 9999
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acagguguuc aaagacgcuu 20

<210> 10000
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<220>
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cagguguuca aagacgcuuc 20

<210> 10001
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<210> 10002
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gguguucaaa gacgcuucug 20

<210> 10003
<211> 20
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<210> 10004
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<220>
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<210> 10005
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<220>
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aaagacgcuu cuggggagug 20

<210> 10006
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aagacgcuuc uggggaguga 20

<210> 10007
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gggagugagg gaagcgguuu 20

<210> 10008
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<220>
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gcgguuuacg agugacuugg 20

<210> 10009
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<220>
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cgguuuacga gugacuuggc 20

<210> 10010
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gagugacuug gcuggagccu 20

<210> 10011
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<220>
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agugacuugg cuggagccuc 20

<210> 10012
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<220>
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acuuggcugg agccucaggg 20

<210> 10013
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<220>
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ccucaggggc gggcacuggc 20

<210> 10014
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<220>
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cucaggggcg ggcacuggca 20

<210> 10015
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<220>
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gcacuggcac ggaacacacc 20

<210> 10016
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<220>
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ggccagcccu ggcugcccag 20

<210> 10017
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<220>
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gccagcccug gcugcccagg 20

<210> 10018
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<220>
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gcggagcugc cucuucuccc 20

<210> 10019
<211> 20
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gccucuucuc ccgcggguug 20

<210> 10020
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<210> 10021
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<220>
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guugguggac ccgcucagua 20

<210> 10022
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<400> 10022
uggacccgcu caguacggag 20

<210> 10023
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<220>
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ggacccgcuc aguacggagu 20

<210> 10024
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<220>
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<400> 10024
gacccgcuca guacggaguu 20

<210> 10025
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<220>
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acccgcucag uacggaguug 20

<210> 10026
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<210> 10027
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<220>
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<210> 10028
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ggggaagcuc uuucacuucg 20

<210> 10029
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aggauugcuc aacaaccaug 20

<210> 10030
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ucaacaacca ugcugggcau 20

<210> 10031
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<220>
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<400> 10031
ucuggacccu ccuaccucug 20

<210> 10032
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ucuggugagc ccucuccugc 20

<210> 10033
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<400> 10033
gugagcccuc uccugcccgg 20

<210> 10034
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<210> 10046
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<210> 10060
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<210> 10062
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<210> 10095
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<220>
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<400> 10095
acgcuucugg ggaguga 17

<210> 10096
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<210> 10119
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acaaccaugc ugggcau 17

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ggacccuccu accucug 17

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<400> 10125
uuaccccguc uuagucc 17

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<210> 10134
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<210> 10135
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<210> 10137
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<210> 10138
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<210> 10143
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<210> 10144
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<210> 10146
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<220>
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<210> 10147
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<210> 10148
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aggagagggc ucaccagagg 20

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<210> 10150
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<210> 10153
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<400> 10153
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<210> 10154
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<210> 10155
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<210> 10156
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cuuccccaac uccguacuga 20

<210> 10157
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<210> 10158
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<210> 10159
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<210> 10160
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<400> 10160
gcggguccac caacccgcgg 20

<210> 10161
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<400> 10161
gguccaccaa cccgcgggag 20

<210> 10162
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<400> 10162
gggagaagag gcagcuccgc 20

<210> 10163
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<400> 10163
ggcagcuccg ccugggcagc 20

<210> 10164
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<220>
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<400> 10164
ugggcagcca gggcuggccu 20

<210> 10165
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<400> 10165
uuccgugcca gugcccgccc 20

<210> 10166
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<400> 10166
aaaccgcuuc ccucacuccc 20

<210> 10167
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<400> 10167
cucacucccc agaagcgucu 20

<210> 10168
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<220>
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<400> 10168
caccugugug ucacucuugc 20

<210> 10169
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<220>
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<400> 10169
gugucacucu ugcgcgagau 20

<210> 10170
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<220>
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<400> 10170
acucuugcgc gagaucagag 20

<210> 10171
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<220>
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gcgagaucag agacgagcuc 20

<210> 10172
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<220>
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<400> 10172
ucacgaaaag ccccgguggu 20

<210> 10173
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<220>
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<400> 10173
cacgaaaagc cccggugguc 20

<210> 10174
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<210> 10175
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<220>
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aagccccggu ggucaggagg 20

<210> 10176
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<210> 10177
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<220>
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<400> 10177
gccccggugg ucaggaggau 20

<210> 10178
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<220>
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<400> 10178
ccggugguca ggaggauggg 20

<210> 10179
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<220>
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<210> 10180
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aggaugggaa ggaagccucg 20

<210> 10181
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<220>
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<400> 10181
ggaugggaag gaagccucgc 20

<210> 10182
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<220>
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gaugggaagg aagccucgcu 20

<210> 10183
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<220>
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<400> 10183
augggaagga agccucgcug 20

<210> 10184
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<220>
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<400> 10184
gaagccucgc uggggaacgc 20

<210> 10185
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<220>
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<400> 10185
cucgcugggg aacgcccggg 20

<210> 10186
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<220>
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<400> 10186
ucgcugggga acgcccgggu 20

<210> 10187
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<220>
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<400> 10187
cgcuggggaa cgcccggguu 20

<210> 10188
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<220>
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<400> 10188
gcuggggaac gcccggguug 20

<210> 10189
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<220>
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<400> 10189
uggggaacgc ccggguuggg 20

<210> 10190
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<400> 10190
uucagcaacu uggccugcgc 20

<210> 10191
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<400> 10191
caacuuggcc ugcgcgcggg 20

<210> 10192
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<220>
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<400> 10192
aacuuggccu gcgcgcgggu 20

<210> 10193
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<220>
<223> Synthetic oligonucleotide: FAS-736

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acuuggccug cgcgcgggua 20

<210> 10194
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<220>
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<210> 10195
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<220>
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<400> 10195
uggccugcgc gcggguaggg 20

<210> 10196
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<220>
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<400> 10196
ggccugcgcg cggguaggga 20

<210> 10197
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<220>
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gccugcgcgc ggguagggag 20

<210> 10198
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<220>
<223> Synthetic oligonucleotide: FAS-740

<400> 10198
ccugcgcgcg gguagggagg 20

<210> 10199
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<220>
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<400> 10199
ugcgcgcggg uagggagggg 20

<210> 10200
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<220>
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<400> 10200
ggguagggag ggggagaagu 20

<210> 10201
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<220>
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<400> 10201
agggaggggg agaagucagg 20

<210> 10202
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<220>
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<400> 10202
ggagggggag aagucagggu 20

<210> 10203
<211> 20
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<220>
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<400> 10203
gagggggaga agucagggug 20

<210> 10204
<211> 20
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<220>
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<400> 10204
ggggagaagu cagggugagg 20

<210> 10205
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<220>
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<400> 10205
gggagaaguc agggugagga 20

<210> 10206
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<220>
<223> Synthetic oligonucleotide: FAS-1225

<400> 10206
agucagggug aggaaggagu 20

<210> 10207
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<220>
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<400> 10207
agucaggguu cguugcacaa 20

<210> 10208
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<220>
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<400> 10208
cacaaauggg cauuccuguc 20

<210> 10209
<211> 20
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<220>
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<400> 10209
acaaaugggc auuccugucc 20

<210> 10210
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<220>
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<400> 10210
ggcuggcaug cucacuucag 20

<210> 10211
<211> 20
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<220>
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<400> 10211
cuggcaugcu cacuucaggu 20

<210> 10212
<211> 20
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<220>
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<400> 10212
gcucacuuca ggugaggacc 20

<210> 10213
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<220>
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<400> 10213
ucacuucagg ugaggaccuc 20

<210> 10214
<211> 20
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<220>
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<400> 10214
ggcuucugcu guaguucaac 20

<210> 10215
<211> 20
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<220>
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<400> 10215
gcuucugcug uaguucaacc 20

<210> 10216
<211> 20
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<220>
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<400> 10216
cuucugcugu aguucaaccu 20

<210> 10217
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1236

<400> 10217
cuguaguuca accugggaag 20

<210> 10218
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<220>
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<400> 10218
uguaguucaa ccugggaagu 20

<210> 10219
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<220>
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<400> 10219
guaguucaac cugggaaguu 20

<210> 10220
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<220>
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<400> 10220
uaguucaacc ugggaaguug 20

<210> 10221
<211> 20
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<220>
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<400> 10221
ccugggaagu uggggagguc 20

<210> 10222
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<220>
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<400> 10222
gggaaguugg ggaggucuug 20

<210> 10223
<211> 20
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<220>
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<400> 10223
ggaaguuggg gaggucuuga 20

<210> 10224
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<400> 10224
aaguugggga ggucuugaag 20

<210> 10225
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<220>
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<400> 10225
uggggagguc uugaaggaga 20

<210> 10226
<211> 20
<212> RNA
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<220>
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<400> 10226
ggggaggucu ugaaggagaa 20

<210> 10227
<211> 20
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<220>
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<400> 10227
ucuugaagga gaauggagcu 20

<210> 10228
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<220>
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<400> 10228
ggagaaugga gcucagagcg 20

<210> 10229
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<400> 10229
ucagagcgca gagguccugc 20

<210> 10230
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<220>
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<400> 10230
gcagaggucc ugccugggua 20

<210> 10231
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<220>
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<400> 10231
cagagguccu gccuggguac 20

<210> 10232
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<220>
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<400> 10232
acaggagccu uggcuaauug 20

<210> 10233
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<220>
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<400> 10233
caggagccuu ggcuaauugc 20

<210> 10234
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<212> RNA
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<220>
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<400> 10234
ggcuaauugc uggagucacu 20

<210> 10235
<211> 20
<212> RNA
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<220>
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<400> 10235
cuaauugcug gagucacuca 20

<210> 10236
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<220>
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<400> 10236
agucacucag agaaagacuu 20

<210> 10237
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<220>
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<400> 10237
gucacucaga gaaagacuug 20

<210> 10238
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<220>
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<400> 10238
aagacuugcg gggcauuuga 20

<210> 10239
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<220>
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<400> 10239
guccauguug uggcugcaac 20

<210> 10240
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<220>
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<400> 10240
ccauguugug gcugcaacau 20

<210> 10241
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<220>
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<400> 10241
ugagaggcuc acagacguuu 20

<210> 10242
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<220>
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<400> 10242
gagaggcuca cagacguuuc 20

<210> 10243
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<220>
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<400> 10243
ggcucacaga cguuucugga 20

<210> 10244
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<220>
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<400> 10244
uggaauggac aguuaaccau 20

<210> 10245
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<220>
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<400> 10245
aaaguacaga uguugcgcca 20

<210> 10246
<211> 20
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<220>
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<400> 10246
agauguugcg ccauagggcu 20

<210> 10247
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<220>
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<400> 10247
uugcgccaua gggcucugaa 20

<210> 10248
<211> 20
<212> RNA
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<220>
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<400> 10248
ugcgccauag ggcucugaaa 20

<210> 10249
<211> 20
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<220>
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gcgccauagg gcucugaaaa 20

<210> 10250
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<220>
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<400> 10250
gccauagggc ucugaaaagg 20

<210> 10251
<211> 20
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<220>
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<400> 10251
ccccuuaguu uuuauuucuc 20

<210> 10252
<211> 20
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<220>
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<400> 10252
ccuuaguuuu uauuucucaa 20

<210> 10253
<211> 20
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<220>
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<400> 10253
cuuaguuuuu auuucucaag 20

<210> 10254
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<220>
<223> Synthetic oligonucleotide: FAS-1273

<400> 10254
ccccacuuug ccuaucc 17

<210> 10255
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<400> 10255
cccacuuugc cuauccc 17

<210> 10256
<211> 17
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cuaucccggg gacuaag 17

<210> 10257
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<220>
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<400> 10257
uaucccgggg acuaaga 17

<210> 10258
<211> 17
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<220>
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<400> 10258
acgggguaag ccuccac 17

<210> 10259
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<220>
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guaagccucc acccggg 17

<210> 10260
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<220>
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<400> 10260
uaagccucca cccgggc 17

<210> 10261
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<220>
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<400> 10261
agccuccacc cgggcag 17

<210> 10262
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<220>
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<400> 10262
ccuccacccg ggcagga 17

<210> 10263
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<220>
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<400> 10263
ggcaggagag ggcucac 17

<210> 10264
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<220>
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<400> 10264
agagggcuca ccagagg 17

<210> 10265
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<220>
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<400> 10265
gagggcucac cagaggu 17

<210> 10266
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<220>
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<400> 10266
gggcucacca gagguag 17

<210> 10267
<211> 17
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<220>
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<400> 10267
gaugcccagc augguug 17

<210> 10268
<211> 17
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<220>
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<400> 10268
gguuguugag caauccu 17

<210> 10269
<211> 17
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<220>
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<400> 10269
uugagcaauc cuccgaa 17

<210> 10270
<211> 17
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<220>
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<400> 10270
gcaauccucc gaaguga 17

<210> 10271
<211> 17
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<220>
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<400> 10271
gcuuccccaa cuccgua 17

<210> 10272
<211> 17
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<400> 10272
ccccaacucc guacuga 17

<210> 10273
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<400> 10273
agcgggucca ccaaccc 17

<210> 10274
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gcggguccac caacccg 17

<210> 10275
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<400> 10275
cggguccacc aacccgc 17

<210> 10276
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<220>
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<400> 10276
gguccaccaa cccgcgg 17

<210> 10277
<211> 17
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<400> 10277
ccaccaaccc gcgggag 17

<210> 10278
<211> 17
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<220>
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<400> 10278
agaagaggca gcuccgc 17

<210> 10279
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<400> 10279
agcuccgccu gggcagc 17

<210> 10280
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<220>
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<400> 10280
gcagccaggg cuggccu 17

<210> 10281
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<220>
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<400> 10281
cgugccagug cccgccc 17

<210> 10282
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<220>
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<400> 10282
ccgcuucccu cacuccc 17

<210> 10283
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<400> 10283
acucccaga agcgucu 17

<210> 10284
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<210> 10406
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<210> 10408
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<210> 10409
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<210> 10536
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<400> 10536
gcgugggggug cggacaggaa 20

<210> 10537
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gggugcggac aggaauugaa 20

<210> 10538
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ggugcggaca ggaauugaag 20

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<400> 10539
acaggaauug aagcggaagu 20

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<210> 10541
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<400> 10541
aggaauugaa gcggaagucu 20

<210> 10542
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agcggaaguc ugggaagcuu 20

<210> 10543
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<220>
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<400> 10543
ucugggaagc uuuagggucg 20

<210> 10544
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<220>
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<400> 10544
cugggaagcu uuagggucgc 20

<210> 10545
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<220>
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<400> 10545
gggaagcuuu agggucgcug 20

<210> 10546
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<220>
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<400> 10546
ggaagcuuua gggucgcugg 20

<210> 10547
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<220>
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<400> 10547
gaagcuuuag ggucgcugga 20

<210> 10548
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<220>
<223> Synthetic oligonucleotide: FAS-1935

<400> 10548
aagcuuuagg gucgcuggag 20

<210> 10549
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<220>
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<400> 10549
ucgcuggagg gggaccccgg 20

<210> 10550
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<220>
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<400> 10550
cgcuggaggg ggaccccggu 20

<210> 10551
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<220>
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<400> 10551
cuggaggggg accccgguug 20

<210> 10552
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<220>
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<400> 10552
ggagggggac cccgguugga 20

<210> 10553
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<220>
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<400> 10553
agggggaccc cgguuggaga 20

<210> 10554
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<220>
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<400> 10554
gggggacccc gguuggagag 20

<210> 10555
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<220>
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<400> 10555
gaccccgguu ggagagagga 20

<210> 10556
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<220>
<223> Synthetic oligonucleotide: FAS-1940

<400> 10556
accccgguug gagagaggag 20

<210> 10557
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-1576

<400> 10557
uggagagagg agcggaacuc 20

<210> 10558
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1577

<400> 10558
agccaaaggu ccgcuccggc 20

<210> 10559
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1578

<400> 10559
aaagguccgc uccggcgcgg 20

<210> 10560
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<220>
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<400> 10560
guccgcuccg gcgcgggugg 20

<210> 10561
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1580

<400> 10561
gggugagugc gcgccgcccc 20

<210> 10562
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1948

<400> 10562
ggugagugcg cgccgccccg 20

<210> 10563
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1949

<400> 10563
gugagugcgc gccgccccgc 20

<210> 10564
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1583

<400> 10564
gugcgcgccg ccccgcgggg 20

<210> 10565
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1952

<400> 10565
ugcgcgccgc cccgcggggg 20

<210> 10566
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<220>
<223> Synthetic oligonucleotide: FAS-1953

<400> 10566
gcgcgccgcc ccgcgggggc 20

<210> 10567
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1954

<400> 10567
cgcgccgccc cgcgggggcg 20

<210> 10568
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1587

<400> 10568
cgccgccccg cgggggcggg 20

<210> 10569
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<220>
<223> Synthetic oligonucleotide: FAS-1588

<400> 10569
ccgccccgcg ggggcgggga 20

<210> 10570
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<220>
<223> Synthetic oligonucleotide: FAS-1589

<400> 10570
gggagagagc cugcagccuu 20

<210> 10571
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<220>
<223> Synthetic oligonucleotide: FAS-1590

<400> 10571
uuucuggcag uucucagacg 20

<210> 10572
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1956

<400> 10572
uucuggcagu ucucagacgu 20

<210> 10573
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-1592

<400> 10573
acguaggaaa uaagucagca 20

<210> 10574
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1593

<400> 10574
gcaccgaagc agugguuaag 20

<210> 10575
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<220>
<223> Synthetic oligonucleotide: FAS-1958

<400> 10575
caccgaagca gugguuaagc 20

<210> 10576
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1595

<400> 10576
ccgaagcagu gguuaagccg 20

<210> 10577
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<220>
<223> Synthetic oligonucleotide: FAS-1596

<400> 10577
cagugguuaa gccggagggc 20

<210> 10578
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1961

<400> 10578
agugguuaag ccggagggcu 20

<210> 10579
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<220>
<223> Synthetic oligonucleotide: FAS-1598

<400> 10579
gguuaagccg gagggcucgg 20

<210> 10580
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<220>
<223> Synthetic oligonucleotide: FAS-1599

<400> 10580
agaacggcac cuuuucuuuc 20

<210> 10581
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<220>
<223> Synthetic oligonucleotide: FAS-1600

<400> 10581
uucuuucucg aaaaaguuau 20

<210> 10582
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<220>
<223> Synthetic oligonucleotide: FAS-1963

<400> 10582
ucuuucucga aaaaguuaua 20

<210> 10583
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1964

<400> 10583
cuuucucgaa aaaguuauau 20

<210> 10584
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<220>
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<400> 10584
uuucucgaaa aaguuauaug 20

<210> 10585
<211> 20
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: FAS-1966

<400> 10585
uucucgaaaa aguuauaugg 20

<210> 10586
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<220>
<223> Synthetic oligonucleotide: FAS-1967

<400> 10586
ucucgaaaaa guuauauggg 20

<210> 10587
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<220>
<223> Synthetic oligonucleotide: FAS-1968

<400> 10587
cucgaaaaag uuauaugggg 20

<210> 10588
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1969

<400> 10588
ucgaaaaagu uauaugggg 20

<210> 10589
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<220>
<223> Synthetic oligonucleotide: FAS-1154

<400> 10589
gcggcgcacg cgggcac 17

<210> 10590
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-876

<400> 10590
cggcgcacgc gggcacc 17

<210> 10591
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-877

<400> 10591
ggcgcacgcg ggcaccu 17

<210> 10592
<211> 17
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<220>
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<400> 10592
gcgggcaccu gggagcg 17

<210> 10593
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-1612

<400> 10593
gggagcggcg ggcugcu 17

<210> 10594
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-1975

<400> 10594
ggagcggcgg gcugcug 17

<210> 10595
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-1976

<400> 10595
gagcggcggg cugcugc 17

<210> 10596
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-1615

<400> 10596
ggcugcugcg ggaggcg 17

<210> 10597
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<220>
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<400> 10597
gcugcugcgg gaggcgu 17

<210> 10598
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<220>
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<400> 10598
gcguuggaga cuggcuc 17

<210> 10599
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<220>
<223> Synthetic oligonucleotide: FAS-1980

<400> 10599
cguuggagac uggcucc 17

<210> 10600
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<220>
<223> Synthetic oligonucleotide: FAS-1981

<400> 10600
guuggagacu ggcuccc 17

<210> 10601
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<220>
<223> Synthetic oligonucleotide: FAS-1620

<400> 10601
uggcucccgg gggcugu 17

<210> 10602
<211> 17
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<213> Artificial Sequence

<220>
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<400> 10602
aggaccuucc cucaggc 17

<210> 10603
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-1622

<400> 10603
ccucaggccc gggugcu 17

<210> 10604
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<220>
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<400> 10604
cccgggugcu cagaacg 17

<210> 10605
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<220>
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<400> 10605
ccgggugcuc agaacgc 17

<210> 10606
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<220>
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<400> 10606
gggugcucag aacgcug 17

<210> 10607
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<220>
<223> Synthetic oligonucleotide: FAS-1626

<400> 10607
uggaggacuu gcuuuuc 17

<210> 10608
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<220>
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<400> 10608
uuuucuuggg ccuugau 17

<210> 10609
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<220>
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<400> 10609
gcgaagugcu gaccccg 17

<210> 10610
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<220>
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<400> 10610
cugaccccgc ugggcag 17

<210> 10611
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<220>
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<400> 10611
ugaccccgcu gggcagg 17

<210> 10612
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<220>
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<400> 10612
ggcagcuccg gcgcucc 17

<210> 10613
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<220>
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<400> 10613
gcagcuccgg cgcuccu 17

<210> 10614
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<220>
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<400> 10614
gaccacugcg cuccacg 17

<210> 10615
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<220>
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<400> 10615
cugcgcucca cguugag 17

<210> 10616
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<220>
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<400> 10616
uccacguuga ggugggc 17

<210> 10617
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<220>
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<400> 10617
ccacguugag gugggcg 17

<210> 10618
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<220>
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<400> 10618
ugaggugggc guggggu 17

<210> 10619
<211> 17
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<220>
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<400> 10619
ugggcguggg gugcgga 17

<210> 10620
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<220>
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<400> 10620
gggcgugggg ugcggac 17

<210> 10621
<211> 17
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<220>
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<400> 10621
uggggugcgg acaggaa 17

<210> 10622
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<220>
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<400> 10622
ugcggacagg aauugaa 17

<210> 10623
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<220>
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<400> 10623
gcggacagga auugaag 17

<210> 10624
<211> 17
<212> RNA
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<220>
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<400> 10624
ggaauugaag cggaagu 17

<210> 10625
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<220>
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<400> 10625
gaauugaagc ggaaguc 17

<210> 10626
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<220>
<223> Synthetic oligonucleotide: FAS-2010

<400> 10626
aauugaagcg gaagucu 17

<210> 10627
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<220>
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<400> 10627
ggaagucugg gaagcuu 17

<210> 10628
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<220>
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<400> 10628
gggaagcuuu agggucg 17

<210> 10629
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<220>
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<400> 10629
ggaagcuuua gggucgc 17

<210> 10630
<211> 17
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<220>
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<400> 10630
aagcuuuagg gucgcug 17

<210> 10631
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<220>
<223> Synthetic oligonucleotide: FAS-2014

<400> 10631
agcuuuaggg ucgcugg 17

<210> 10632
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-2015

<400> 10632
gcuuuagggu cgcugga 17

<210> 10633
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<220>
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<400> 10633
cuuuaggguc gcuggag 17

<210> 10634
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<220>
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<400> 10634
cuggaggggg accccgg 17

<210> 10635
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<220>
<223> Synthetic oligonucleotide: FAS-2019

<400> 10635
uggaggggga ccccggu 17

<210> 10636
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-1655

<400> 10636
gagggggacc ccgguug 17

<210> 10637
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<220>
<223> Synthetic oligonucleotide: FAS-1656

<400> 10637
gggggacccc gguugga 17

<210> 10638
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<220>
<223> Synthetic oligonucleotide: FAS-1657

<400> 10638
gggaccccgg uuggaga 17

<210> 10639
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-2020

<400> 10639
ggaccccggu uggagag 17

<210> 10640
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-1659

<400> 10640
cccgguugga gagagga 17

<210> 10641
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-2021

<400> 10641
ccgguuggag agaggag 17

<210> 10642
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-1661

<400> 10642
agagaggagc ggaacuc 17

<210> 10643
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-1662

<400> 10643
caaagguccg cuccggc 17

<210> 10644
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-1663

<400> 10644
gguccgcucc ggcgcgg 17

<210> 10645
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-1664

<400> 10645
cgcuccggcg cgggugg 17

<210> 10646
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: FAS-1665

<400> 10646
ugagugcgcg ccgcccc 17

<210> 10647
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-2029

<400> 10647
gagugcgcgc cgccccg 17

<210> 10648
<211> 17
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<220>
<223> Synthetic oligonucleotide: FAS-2030

<400> 10648
agugcgcgcc gccccgc 17

<210> 10649
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-1668

<400> 10649
cgcgccgccc cgcgggg 17

<210> 10650
<211> 17
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<220>
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<400> 10650
gcgccgcccc gcggggg 17

<210> 10651
<211> 17
<212> RNA
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<220>
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<400> 10651
cgccgccccg cgggggc 17

<210> 10652
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-2035

<400> 10652
gccgccccgc gggggcg 17

<210> 10653
<211> 17
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: FAS-1672

<400> 10653
cgccccgcgg gggcggg 17

<210> 10654
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: FAS-1673

<400> 10654
ccccgcgggg gcgggga 17

<210> 10655
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-1674

<400> 10655
agagagccug cagccuu 17

<210> 10656
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-1675

<400> 10656
cuggcaguuc ucagacg 17

<210> 10657
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-2037

<400> 10657
uggcaguucu cagacgu 17

<210> 10658
<211> 17
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-1677

<400> 10658
uaggaaauaa gucagca 17

<210> 10659
<211> 17
<212> RNA
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gguucacagu gucccag 17

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gugcaucaca aaccuac 17

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<210> 10783
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uccgguccug cacagag 17

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gaggggcaca cagaacc 17

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gcugccgcgc ugcccaggcc 20

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uguucugaca acagcuuccg 20

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gccagugcug gcuccccagu 20

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uccccagugg gagggcuacg 20

<210> 11159
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accgcagcag ccacucccgc 20

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ccgcagcagc cacucccgcu 20

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agcagccacu cccgcuuggg 20

<210> 11163
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<210> 11164
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ugaugcacuc aucccugagg 20

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accugcaggc aggguug 17

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aggucggugc ugagggu 17

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<210> 11894
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<210> 11899
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ccagaggagg ggaggcg 17

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ccagcccagc cacuugg 17

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ccccaggcca cguggag 17

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cccgggcgga ggggagg 17

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cccucccccug aaucccc 17

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cccugagcuc cacgccg 17

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aagcacaggg acuggug 17

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agcacaggga cugguga 17

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uuucccagag aaucauu 17

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ucugaaacag ucgcgua 17

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gcagcgcagu gagaacc 17

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auuccuaaug auucucu 17

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cuguuucugg aacaguc 17

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gguccucacg gaaccag 17

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ucacggaacc agggguu 17

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guggguugca gagaauc 17

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uuuucaguuu uuagugg 17

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ucaguuuuua guggagg 17

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guuuuuagug gaggugg 17

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uuuuuagugg agguggu 17

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<400> 12202
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ugaaugugug ccguccu 17

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ggggcccugc agucccc 17

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gggcccugca gucccu 17

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gaccagauuc ccugagc 17

<210> 12257
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accagauucc cugagcu 17

<210> 12258
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<400> 12258
ccagauuccc ugagcug 17

<210> 12259
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agcgcagagg gauccuc 17

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agggauccuc uggcauc 17

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<220>
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<210> 12269
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gagguagaca gagcucc 17

<210> 12270
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<400> 12270
agguagacag agcucca 17

<210> 12271
<211> 17
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<220>
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uccagggagg cacugcc 17

<210> 12274
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<220>
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<210> 12277
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gccucugccu gcggccc 17

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<220>
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<400> 12278
ccucugccug cggccca 17

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<400> 12279
uucugccccu cuugccc 17

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<400> 12280
ucugccccuc uugccca 17

<210> 12281
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gccccucuug cccaggg 17

<210> 12282
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<210> 12285
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<400> 12286
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<210> 12287
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<400> 12287
gcggggucag caguucg 17

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<400> 12288
ggucagcagu ucguggc 17

<210> 12289
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<400> 12289
gucagcaguu cguggcu 17

<210> 12290
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ucagcaguuc guggcug 17

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<210> 12292
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<400> 12292
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ucgaccgugu ccgcgcgccu 20

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cgcgcccgcg cccccgcggc 20

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gccugccgcc ugccccggcg 20

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gccugccccg gcguggagcu 20

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cgcccugggc ccgaccgcgg 20

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<210> 12438
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ccgaccgcgg ugggagccag 20

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accgcggugg gagccagagg 20

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ccgcgguggg agccagagga 20

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cgcgguggga gccagaggag 20

<210> 12443
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<210> 12444
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gggagccaga ggagggggagg 20

<210> 12445
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<220>
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ggagccagag gaggggaggc 20

<210> 12446
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gagccagagg aggggaggcg 20

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gaggagggga ggcggggggu 20

<210> 12448
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ccccaggccu cagcagcgac 20

<210> 12449
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ccaggccuca gcagcgaccu 20

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ccucagcagc gaccugaggg 20

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cucucccgcc uccccuccgc 20

<210> 12452
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gcgcggccgg caggucggug 20

<210> 12453
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gcggccggca ggucggugcu 20

<210> 12454
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cggcaggucg gugcugaggg 20

<210> 12455
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gcugaggguc ggguccgccu 20

<210> 12457
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gggucggguc cgccucggag 20

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<210> 12462
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<210> 12463
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cuccacgugg ccuggggauu 20

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<210> 12468
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cguggccugg ggauucaggg 20

<210> 12469
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guggccuggg gauucagggg 20

<210> 12470
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<220>
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uggggauuca ggggaggggu 20

<210> 12471
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ggggauucag gggaggggug 20

<210> 12472
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<210> 12473
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aggggagggg ugcggggcgc 20

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<210> 12477
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<210> 12478
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<210> 12479
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<210> 12480
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<210> 12482
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ugcggggcgc ggggaggggg 20

<210> 12483
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ggcgcgggga gggggagggg 20

<210> 12484
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gggaggggcc gaggccagcc 20

<210> 12485
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ggaggggccg aggccagccc 20

<210> 12486
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aggggccgag gccagccccg 20

<210> 12487
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<220>
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gggccgaggc cagccccgga 20

<210> 12488
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<220>
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ggccgaggcc agccccggag 20

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<210> 12490
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ccccggagag gagaaaaccc 20

<210> 12491
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gagaaaaccc gcgggccugg 20

<210> 12492
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ggugcaggcc acccuugccg 20

<210> 12493
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<210> 12494
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ggccacccuu gccggcggau 20

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cagacaccug ccggcuccuc 20

<210> 12496
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caccugccgg cuccucccga 20

<210> 12497
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accugccggc uccucccgag 20

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ggcuccuccc gagcggagcu 20

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gcggucagag cggccgcuua 20

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cggucagagc ggccgcuuac 20

<210> 12502
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acuggggcuc gcccgcuccu 20

<210> 12503
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<220>
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uagagcacug gcaaugaugu 20

<210> 12504
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gcggauccuc gcugcugcug 20

<210> 12505
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cggauccucg cugcugcugc 20

<210> 12506
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ggauccucgc ugcugcugcu 20

<210> 12507
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<220>
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cugcugcugc ugggaaacug 20

<210> 12508
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<220>
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gcugggaaac uguugagugg 20

<210> 12509
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<220>
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guugaguggc ugaaugaccc 20

<210> 12510
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uugaguggcu gaaugacccc 20

<210> 12511
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ugaguggcug aaugacccca 20

<210> 12512
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cugaaugacc ccaggggacc 20

<210> 12513
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<400> 12513
ugaaugaccc caggggaccc 20

<210> 12514
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gaaugacccc aggggacccu 20

<210> 12515
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augaccccag gggacccugg 20

<210> 12516
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caggggaccc ugggagagcu 20

<210> 12517
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<220>
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agcccucagc caccaagugg 20

<210> 12518
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<220>
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caccaagugg cugggcuggc 20

<210> 12519
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<220>
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cauucauuca uucaacaaau 20

<210> 12520
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<220>
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aauacgaaug ugcagcggug 20

<210> 12521
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auacgaaugu gcagcggugc 20

<210> 12522
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gcugggguca ugauggcucg 20

<210> 12523
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<220>
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<400> 12523
ucaugauggc ucggugggca 20

<210> 12524
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<220>
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augauggcuc ggugggcagc 20

<210> 12525
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<220>
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ugauggcucg gugggcagcg 20

<210> 12526
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<220>
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gcucgguggg cagcgagggg 20

<210> 12527
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<220>
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<400> 12527
gcagcgaggg gccgggccgg 20

<210> 12528
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<220>
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cagcgagggg ccgggccggc 20

<210> 12529
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<220>
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gcgaggggcc gggccggcug 20

<210> 12530
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cgaggggccg ggccggcugg 20

<210> 12531
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gccggcugga ggagcacagu 20

<210> 12532
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<220>
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<400> 12532
gcacagugcg gauucuguaa 20

<210> 12533
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<400> 12533
gugcggauuc uguaaguggg 20

<210> 12534
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ugcggauucu guaagugggc 20

<210> 12535
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<400> 12535
gcggauucug uaagugggcu 20

<210> 12536
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<400> 12536
uucuguaagu gggcuggggg 20

<210> 12537
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<400> 12537
gggggcuggg ccuucugcgg 20

<210> 12538
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gaccggccuu caccugcagg 20

<210> 12539
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gccuucaccu gcaggcaggg 20

<210> 12540
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ccuucaccug caggcagggu 20

<210> 12541
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ccgaaggagg aagcgcg 17

<210> 12542
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ucguauuugu ugaauga 17

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auuuguugaa ugaauga 17

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<210> 12767
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gggcuucaga gcucucc 17

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ucagcccuga gcuccgc 17

<210> 12778
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<210> 12784
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gcuggaaaga ccacggu 17

<210> 12785
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gaaagaccac ggugugg 17

<210> 12786
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<210> 12787
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gauuccgauc cgccggc 17

<210> 12789
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<210> 12790
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<210> 12792
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<210> 13046
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uaagggugug gggagcgcag 20

<210> 13048
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cagagggauc cucuggcauc 20

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<210> 13054
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<210> 13069
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gagcagaugg acccacc 17

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guccucgcuc ucacugu 17

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ccacaggagg cuuugag 17

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ggggcccugc agucccc 17

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gggcccugca gucccu 17

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gaccagauuc ccugagc 17

<210> 13113
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<210> 13114
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gcuggggucu uaagggu 17

<210> 13115
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<210> 13116
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<220>
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uggggucuua agggugu 17

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ggggucuuaa gggugug 17

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ucaggaguug agguaga 17

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<400> 13126
gagguagaca gagcucc 17

<210> 13127
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agguagacag agcucca 17

<210> 13128
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cagggaggca cugccgg 17

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<210> 13134
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uucugccccu cuugccc 17

<210> 13135
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ucugccccuc uugccca 17

<210> 13136
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ugccccucuu gcccagg 17

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<210> 13141
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ggucagcagu ucguggc 17

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uggcuggggu uuaaagg 17

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ggcugggguu uaaaggc 17

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<210> 13149
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<400> 13149
ggcagggauc ucccagg 17

<210> 13150
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aucucccagg acgggca 17

<210> 13151
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ucucccagga cgggcac 17

<210> 13152
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<400> 13152
cucccaggac gggcaca 17

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ggacgggcac agggagc 17

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<210> 13155
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<400> 13155
cgggcacagg gagcaug 17

<210> 13156
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<400> 13156
ucaugcuccc ugugcccguc 20

<210> 13157
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augcucccug ugcccguccu 20

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cucuucccuc ccugggcaag 20

<210> 13164
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<400> 13166
cccugggcaa gaggggcaga 20

<210> 13167
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ggcaagaggg gcagaagggg 20

<210> 13168
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uccucccggc agugccuccc 20

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ucuaccucaa cuccugaugc 20

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uaccucaacu ccugaugcca 20

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acacccuuaa gaccccagcu 20

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cacccuuaag accccagcuc 20

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acccuuaaga ccccagcuca 20

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cuggucucgg ucaucacucc 20

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uggucucggu caucacuccc 20

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ggucucgguc aucacuccca 20

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cccaggggac ugcagggccc 20

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ggacggcaca cauucaggcc 20

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gacggcacac auucaggccc 20

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cggcacacau ucaggcccag 20

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cccccaucuc aaagccuccu 20

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caucucaaag ccuccugugg 20

<210> 13189
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aucucaaagc cuccuguggg 20

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aaagccuccu guggguggag 20

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aagccuccug uggguggaga 20

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ccugugggug gagauggaau 20

<210> 13193
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cugugggugg agauggaaug 20

<210> 13194
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uccucugcag cucccccaca 20

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cucugcagcu cccccacagu 20

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gcagcucccc cacagugaga 20

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agcucccccca cagugagagc 20

<210> 13198
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ccccacagug agagcgagga 20

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ccacagugag agcgaggacu 20

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ugagagcgag gacugagggu 20

<210> 13201
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ugagggugug gauaaggcuc 20

<210> 13202
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<400> 13202
gagggugugg auaaggcucc 20

<210> 13203
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<400> 13203
gguguggaua aggcuccagg 20

<210> 13204
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<400> 13204
gugуggauaa ggcuccagga 20

<210> 13205
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uguggauaag gcuccaggaa 20

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<210> 13208
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gggggugcaa gccugagaag 20

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ggggugcaag ccugagaagg 20

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ccugagaagg uggaagagcu 20

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<400> 13212
agaaggugga agagcucugg 20

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<400> 13213
ugcucccugu gcccguc 17

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<400> 13214
gcucccugug cccgucc 17

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cucccugugc ccguccu 17

<210> 13216
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<210> 13218
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cucuucccuc ccugggc 17

<210> 13219
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cuucccuccc ugggcaa 17

<210> 13220
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uucccucccu gggcaag 17

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ucccugggca agagggg 17

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cugggcaaga ggggcag 17

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ugggcaagag gggcaga 17

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aagaggggca gaagggg 17

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agaggggcag aaggggc 17

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gggcagggac gcacacc 17

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acacccuggg ccgcagg 17

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gcaggcagag gcuuggc 17

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cucccggcag ugccucc 17

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ucccggcagu gccuccc 17

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accucaacuc cugaugc 17

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<400> 13232
cucaacuccu gaugcca 17

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cccuuaagac cccagcu 17

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ccuuaagacc ccagcuc 17

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cuuaagaccc cagcuca 17

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gucucgguca ucacucc 17

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ucucggucau cacuccc 17

<210> 13238
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cucggucauc acuccca 17

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ucacucccag gggacug 17

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aggggacugc agggccc 17

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cggcacacau ucaggcc 17

<210> 13242
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ggcacacauu caggccc 17

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cacacauuca ggcccag 17

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ccaucucaaa gccuccu 17

<210> 13245
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cucaaagccu ccugugg 17

<210> 13246
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ucaaagccuc cuguggg 17

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gccuccugug gguggag 17

<210> 13248
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ccuccugugg guggaga 17

<210> 13249
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gugggguggag auggaau 17

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uggguggaga uggaaug 17

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<400> 13251
ucugcagcuc ccccaca 17

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ugcagcuccc ccacagu 17

<210> 13253
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<400> 13253
gcucccccac agugaga 17

<210> 13254
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<220>
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<400> 13254
ucccccacag ugagagc 17

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<400> 13255
cacagugaga gcgagga 17

<210> 13256
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cagugagagc gaggacu 17

<210> 13257
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<400> 13257
gagcgaggac ugagggu 17

<210> 13258
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<400> 13258
ggguguggau aaggcuc 17

<210> 13259
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gguguggaua aggcucc 17

<210> 13260
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<400> 13260
guggauaagg cuccagg 17

<210> 13261
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uggauaaggc uccagga 17

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ggauaaggcu ccaggaa 17

<210> 13263
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aggaaggggg ugcaagc 17

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<400> 13264
gaagggggug caagccu 17

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<400> 13265
ggugcaagcc ugagaag 17

<210> 13266
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gugcaagccu gagaagg 17

<210> 13267
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caagccugag aaggugg 17

<210> 13268
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<400> 13268
gagaaggugg aagagcu 17

<210> 13269
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<400> 13269
agguggaaga gcucugg 17

<210> 13270
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uguguccucu ccacguggcc 20

<210> 13271
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ggccggcugg aggagcacag 20

<210> 13272
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guccucucca cguggcc 17

<210> 13273
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<400> 13273
cggcuggagg agcacag 17

<210> 13274
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uggaaagacc acgguguggg 20

<210> 13275
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aaagaccacg guguggg 17

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<400> 13276
agggacuggu gaggggcugg 20

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agacuguucc agaaacagcc 20

<210> 13278
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<400> 13278
gacuggugag gggcugg 17

<210> 13279
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<400> 13279
cuguuccaga aacagcc 17

<210> 13280
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agcgccgcug ggauaauucc 20

<210> 13281
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<220>
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uuuaauuauu uggauaucaa 20

<210> 13282
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<400> 13282
gccgcuggga uaauucc 17

<210> 13283
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<400> 13283
aauuauuugg auaucaa 17

<210> 13284
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<400> 13284
cccugggagu gaugaccgag 20

<210> 13285
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<220>
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<400> 13285
ugggagugau gaccgag 17

<210> 13286
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<400> 13286
ggugacagug cuucggc 17

<210> 13287
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<220>
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<400> 13287
gugcggcaac cuacaugaug 20

<210> 13288
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<220>
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<400> 13288
gcggcaaccu acaugau 17

<210> 13289
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<220>
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<400> 13289
ggccacgugc auugcuagca 20

<210> 13290
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gcuuuauggg agcgguguuc 20

<210> 13291
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acaccgcucc cauaaagcca 20

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<400> 13292
ccgcucccau aaagcca 17

<210> 13293
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ccuuggauuu cagcggcaca 20

<210> 13294
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gcucagcuga accuggcuac 20

<210> 13504
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<210> 13505
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<210> 13507
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<210> 13508
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<210> 13509
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<210> 13510
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<210> 13536
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<210> 13537
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aaggugagug agacuuu 17

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<210> 13539
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<210> 13540
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<210> 13541
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<210> 13542
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ggcaaagcca cugaggu 17

<210> 13543
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accucacuau ccaagga 17

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ccuuauuuua uucccaucaa 20

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uuauuuuauu cccaucaauu 20

<210> 13651
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<210> 13652
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<210> 13653
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<210> 13654
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uaccugggca uaggcaa 17

<210> 13657
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<400> 13657
ccagauuuau guaauug 17

<210> 13658
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<210> 13659
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guuuucuguu gcagauc 17

<210> 13660
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<210> 13661
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<210> 13664
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uuucuuugag caaaaug 17

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uuuguguuug acagcua 17

<210> 13666
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aagaagcccu cuuacaa 17

<210> 13668
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<210> 13680
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<210> 13687
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<210> 13691
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<210> 13692
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<210> 13693
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<210> 13694
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<210> 13695
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<210> 13702
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<210> 13703
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<210> 13704
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<210> 13762
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<210> 13763
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<210> 13764
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<210> 13766
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cgccagguau uuaguag 17

<210> 13768
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<210> 13769
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<210> 13771
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<210> 13772
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<210> 13773
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<220>
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gaacaaaaca agccaaucca 20

<210> 13774
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<220>
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gaacccacac agaauca 17

<210> 13775
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<220>
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gaagauugaa uaaaauu 17

<210> 13776
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gaagcuucau guucacuuug 20

<210> 13777
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<210> 13778
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gaauaaaauu gggauuu 17

<210> 13779
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<210> 13780
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<400> 13780
gaauuuccug gaguaca 17

<210> 13781
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gagaauuucc uggaguacaa 20

<210> 13782
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gagacuggaa gugauuuaag 20

<210> 13783
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<220>
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<400> 13783
gagagugcag ggccaggucc 20

<210> 13784
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gagcaugaag auggagg 17

<210> 13785
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<220>
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gaggacccuu guacucc 17

<210> 13786
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gaggaggugu uucuccuacc 20

<210> 13787
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<220>
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<400> 13787
gagguguuuc uccuacc 17

<210> 13788
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gaguugucaa ugaaaugaau 20

<210> 13789
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gcaaagccag aaguuaa 17

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gcaaagguga gugagacuuu 20

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gcaagccaug gcuuuau 17

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gcacaaggcu cagcugaacc 20

<210> 13793
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aaucacuucc agucuca 17

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cccagcucaa auguauu 17

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<210> 14404
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<220>
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<210> 14413
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<220>
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<210> 14703
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<210> 14704
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<210> 14719
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<210> 14721
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gagccccagc aaccaga 17

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<400> 14748
acuccccaga caggccc 17

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ggcaguccug gccgggc 17

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<210> 14766
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<210> 14768
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<220>
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<210> 14769
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<220>
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<210> 14770
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<220>
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<210> 14771
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<220>
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<210> 14772
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<400> 14772
ggguuccagg gccuguc 17

<210> 14773
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<220>
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<400> 14773
gcucguggug accgaag 17

<210> 14774
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<400> 14774
ggagagaggu gaggaag 17

<210> 14775
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<220>
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guugugugac acggaag 17

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cggaggcccc ggggcag 17

<210> 14778
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<220>
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gucugagaga uggagag 17

<210> 14779
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<210> 14780
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<400> 14780
gcuggccgcc uuccccg 17

<210> 14781
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<220>
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<400> 14781
cugccccggg gccuccg 17

<210> 14782
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gcuggcugcg guccucg 17

<210> 14783
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cuccccagcc cugcucg 17

<210> 14784
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cagggcuggg gagaagg 17

<210> 14785
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<220>
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<400> 14785
gcgguccucg gggaagg 17

<210> 14786
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gaugguucuu agguagg 17

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uagguaggug gggucgg 17

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gagaaggugg gggguuccca 20

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<210> 14838
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gcagaucaaa gagagccugc 20

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ccccugcccc ggggccuccg 20

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cgggcuggcu gcgguccucg 20

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cuucucccca gcccugcucg 20

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<210> 14878
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<210> 14879
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gggcugggga gaaggugggg 20

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agggcugggg agaagguggg 20

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<220>
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cggugcuaca acugggcugg 20

<210> 14886
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cucuuugauc ugcgccuugg 20

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ucugguugcu ggggcucaug 20

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<210> 14891
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<220>
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ggucaccacg agcagggcug 20

<210> 14892
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<220>
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aguccuggcc gggcuggcug 20

<210> 14893
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gacagcggca ccuaccucug 20

<210> 14894
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<220>
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gggguuccag ggccugucug 20

<210> 14895
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gcagggcugg ggagaaggug 20

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<220>
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cugagagaug gagagaggug 20

<210> 14898
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<220>
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<210> 14899
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<210> 14901
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<210> 14902
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gccgggcugg cugcgguccu 20

<210> 14903
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agcuuguccg ucugguugcu 20

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<210> 14906
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ggagauggcc ccacagaggu 20

<210> 14908
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<210> 14909
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gaagguggcg uugucccuu 20

<210> 14910
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<220>
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ggagugccca gccacug 17

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cgucagcuga gccccug 17

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ccagccacug aggccug 17

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acgucauccc agccccu 17

<210> 15032
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<220>
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gcucagcuga cggcccu 17

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aacuggccgg cuggccu 17

<210> 15034
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ccucugaccg gcuuccu 17

<210> 15035
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gaggugccca uuccgcu 17

<210> 15036
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gggcaggccg aggggcu 17

<210> 15037
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<400> 15037
ggccugggug aggggcu 17

<210> 15038
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<220>
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<400> 15038
cucaggccuc aguggcu 17

<210> 15039
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<220>
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<400> 15039
gucgugggcg gccugcu 17

<210> 15040
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<220>
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<400> 15040
aggauggaca cugcucu 17

<210> 15041
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<220>
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ccuggugcug cuagucu 17

<210> 15042
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<220>
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<400> 15042
cuggugguug gugucgu 17

<210> 15043
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<400> 15043
gggugagggg cuggggu 17

<210> 15044
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<400> 15044
uuccaaaccc ugguggu 17

<210> 15045
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<400> 15045
gggcuggggu gggcugu 17

<210> 15046
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ugcagagaaa cacacuu 17

<210> 15047
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<220>
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<400> 15047
caccaaccac caggguu 17

<210> 15048
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<220>
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cacaaagguc agggguu 17

<210> 15049
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<400> 15049
ccuccuucuu ugaggagaaa 20

<210> 15050
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uucucucugg aagggcacaa 20

<210> 15051
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<220>
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<400> 15051
cauuccgcua ggaaagacaa 20

<210> 15052
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<220>
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uugugcccuu ccagagagaa 20

<210> 15053
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<220>
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<400> 15053
uccuccuucu uugaggagaa 20

<210> 15054
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<220>
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<400> 15054
cauugucuuu ccuagcggaa 20

<210> 15055
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<220>
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<400> 15055
uucugcccuu cucucuggaa 20

<210> 15056
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<220>
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uccgucugcu cagggacaca 20

<210> 15057
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<220>
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<400> 15057
gcccacgaca ccaaccacca 20

<210> 15058
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<220>
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<400> 15058
gaaaagagug agacucacca 20

<210> 15059
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<220>
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<400> 15059
cugcagaaca cugguggcca 20

<210> 15060
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<220>
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<400> 15060
caccucaucc cccgcccgca 20

<210> 15061
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<220>
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<400> 15061
guccacagag aacacaggca 20

<210> 15062
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<220>
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cugcucaggg acacagggca 20

<210> 15063
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<220>
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cccaagugug uuucucugca 20

<210> 15064
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<220>
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<400> 15064
uggcauacuc cgucugcuca 20

<210> 15065
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<220>
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cuggaagggc acaaagguca 20

<210> 15066
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<220>
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<400> 15066
ucucccuuuc uccucaaaga 20

<210> 15067
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<220>
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<400> 15067
gcccuguguc ccugagcaga 20

<210> 15068
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<220>
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<400> 15068
ggccaaggaa gccggucaga 20

<210> 15069
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<220>
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uuugugcccu uccagagaga 20

<210> 15070
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<220>
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<400> 15070
ucuuugagga gaaagggaga 20

<210> 15071
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<220>
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<400> 15071
ucaguggcug ggcacuccga 20

<210> 15072
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<220>
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<400> 15072
cagccacuga ggccugagga 20

<210> 15073
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<220>
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<400> 15073
cuucugcccu ucucucugga 20

<210> 15074
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<220>
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<400> 15074
ugcggcccgg gagcagauga 20

<210> 15075
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<220>
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gcccgcaggg gcucagcuga 20

<210> 15076
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<220>
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<400> 15076
gagaacacag gcacggcuga 20

<210> 15077
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<220>
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<400> 15077
uggccggcug gccuggguga 20

<210> 15078
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<220>
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<400> 15078
ccuguguucu cuguggacua 20

<210> 15079
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<220>
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caaccaccag gguuuggaac 20

<210> 15080
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ccauagucca cagagaacac 20

<210> 15081
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cuccgucugc ucagggacac 20

<210> 15082
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<220>
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ccggggucuu cucucgccac 20

<210> 15083
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<220>
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<400> 15083
acaauaggag ccaggcgcac 20

<210> 15084
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<220>
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<400> 15084
ugcucaggga cacagggcac 20

<210> 15085
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<220>
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<400> 15085
cugcucuugg ccccucugac 20

<210> 15086
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<220>
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<400> 15086
cgcccacgac accaaccacc 20

<210> 15087
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<220>
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ggacccagac uagcagcacc 20

<210> 15088
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<220>
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<400> 15088
ggaaaagagu gagacucacc 20

<210> 15089
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<220>
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<400> 15089
gaaacacacu uggggucacc 20

<210> 15090
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<220>
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<400> 15090
agccggccag uuccaaaccc 20

<210> 15091
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<220>
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<400> 15091
cccaccccag ccccucaccc 20

<210> 15092
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<212> RNA
<213> Artificial Sequence

<220>
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<400> 15092
ccaguggcga gagaagaccc 20

<210> 15093
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<220>
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<400> 15093
caggcgcacc ggccagcccc 20

<210> 15094
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<220>
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<400> 15094
gacguuaccu cgugcggccc 20

<210> 15095
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<212> RNA
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<220>
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<400> 15095
ccuggccguc aucugcuccc 20

<210> 15096
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<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-267

<400> 15096
gggcggccug cugggcagcc 20

<210> 15097
<211> 20
<212> RNA
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<220>
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<400> 15097
cugcagggac aauaggagcc 20

<210> 15098
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<220>
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<400> 15098
caggggcugg ccggugcgcc 20

<210> 15099
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<220>
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<400> 15099
cccgggagca gaugacggcc 20

<210> 15100
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<220>
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<400> 15100
ugacguuacc ucgugcggcc 20

<210> 15101
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<220>
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<400> 15101
uuggaacugg ccggcuggcc 20

<210> 15102
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<220>
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<400> 15102
cacagggcac ggggggcucc 20

<210> 15103
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<220>
<223> Synthetic oligonucleotide: PDCD1-271

<400> 15103
uccuggccgu caucugcucc 20

<210> 15104
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<220>
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<400> 15104
ggugcugcua gucugggucc 20

<210> 15105
<211> 20
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<220>
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<400> 15105
acacuggugg ccaaggaagc 20

<210> 15106
<211> 20
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<220>
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<400> 15106
gcagcaccag gcugcccagc 20

<210> 15107
<211> 20
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<213> Artificial Sequence

<220>
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<400> 15107
agccccucac ccaggccagc 20

<210> 15108
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<220>
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<400> 15108
cucuguggac uaugggagc 20

<210> 15109
<211> 20
<212> RNA
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<220>
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<400> 15109
gcaccucauc ccccgcccgc 20

<210> 15110
<211> 20
<212> RNA
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<220>
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<400> 15110
aggguuugga acuggccggc 20

<210> 15111
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<220>
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<400> 15111
ucagcugagc cccugcgggc 20

<210> 15112
<211> 20
<212> RNA
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<220>
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<400> 15112
gagugagacu caccaggggc 20

<210> 15113
<211> 20
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<220>
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<400> 15113
ggcuggccug ggugaggggc 20

<210> 15114
<211> 20
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<220>
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<400> 15114
caccaggguu uggaacuggc 20

<210> 15115
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<220>
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<400> 15115
gagacucacc aggggcuggc 20

<210> 15116
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<220>
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<400> 15116
cauccucagg ccucaguggc 20

<210> 15117
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<220>
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<400> 15117
gccgucagcu gagccccugc 20

<210> 15118
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<220>
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<400> 15118
uggugucgug ggcggccugc 20

<210> 15119
<211> 20
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<220>
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<400> 15119
ccccaagugu guuucucugc 20

<210> 15120
<211> 20
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<220>
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<400> 15120
caagagcagu guccauccuc 20

<210> 15121
<211> 20
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<220>
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<400> 15121
acacagggca cgggggcuc 20

<210> 15122
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<220>
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<400> 15122
guggcauacu ccgucugcuc 20

<210> 15123
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-362

<400> 15123
ggcacuucug cccuucucuc 20

<210> 15124
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<220>
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<400> 15124
gcagccuggu gcugcuaguc 20

<210> 15125
<211> 20
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<220>
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<400> 15125
ucuggaaggg cacaaagguc 20

<210> 15126
<211> 20
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<220>
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<400> 15126
aaaagaguga gacucaccag 20

<210> 15127
<211> 20
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<220>
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<400> 15127
auggggagcu ggauuuccag 20

<210> 15128
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-296

<400> 15128
accucauccc ccgcccgcag 20

<210> 15129
<211> 20
<212> RNA
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<220>
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<400> 15129
uguccauccu caggccucag 20

<210> 15130
<211> 20
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<220>
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<400> 15130
uggaagggca caaaggucag 20

<210> 15131
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-439

<400> 15131
uggccaagga agccggucag 20

<210> 15132
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-437

<400> 15132
gccaaggaag ccggucagag 20

<210> 15133
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-399

<400> 15133
uucuuugagg agaaagggag 20

<210> 15134
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-403

<400> 15134
agaacacagg cacggcugag 20

<210> 15135
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-370

<400> 15135
ggccggcugg ccugggugag 20

<210> 15136
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-291

<400> 15136
gccaccauug ucuuuccuag 20

<210> 15137
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-273

<400> 15137
aucugcuccc gggccgcacg 20

<210> 15138
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-414

<400> 15138
gcucagggac acagggcacg 20

<210> 15139
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-432

<400> 15139
cucaguggcu gggcacuccg 20

<210> 15140
<211> 20
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<220>
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<400> 15140
acagggcacg gggggcuccg 20

<210> 15141
<211> 20
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<213> Artificial Sequence

<220>
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<400> 15141
cagcugagcc ccugcgggcg 20

<210> 15142
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 15142
aacccuggug guuggugucg 20

<210> 15143
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-282

<400> 15143
cccuuucucc ucaaagaagg 20

<210> 15144
<211> 20
<212> RNA
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<220>
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<400> 15144
cucagggaca cagggcacgg 20

<210> 15145
<211> 20
<212> RNA
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<220>
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<400> 15145
agcugagccc cugcgggcgg 20

<210> 15146
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-412

<400> 15146
ucagggacac agggcacggg 20

<210> 15147
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-428

<400> 15147
gucagcugag ccccugcggg 20

<210> 15148
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-366

<400> 15148
gccuggguga ggggcugggg 20

<210> 15149
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-264

<400> 15149
cuggugguug gugucguggg 20

<210> 15150
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 15150
uccgcuagga aagacaaugg 20

<210> 15151
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-260

<400> 15151
cggccaguuc caaacccugg 20

<210> 15152
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-424

<400> 15152
gccccugcgg gcgggggaug 20

<210> 15153
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-286

<400> 15153
uguguucucu guggacuaug 20

<210> 15154
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-299

<400> 15154
cucggagugc ccagccacug 20

<210> 15155
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-430

<400> 15155
ggccgucagc ugagccccug 20

<210> 15156
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-300

<400> 15156
ugcccagcca cugaggccug 20

<210> 15157
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-405

<400> 15157
agagaacaca ggcacggcug 20

<210> 15158
<211> 20
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-367

<400> 15158
cuggccuggg ugaggggcug 20

<210> 15159
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-364

<400> 15159
ugaggggcug gggugggcug 20

<210> 15160
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<210> 15162
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auugucuuuc cuagcggaau 20

<210> 15167
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cuguguucuc uguggacuau 20

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<210> 15169
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<210> 15170
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<210> 15171
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<210> 15172
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gccccucuga ccggcuuccu 20

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gaugaggugc ccauuccgcu 20

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<210> 15175
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<220>
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<220>
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<210> 15177
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<210> 15178
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<210> 15179
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<220>
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acccuggugg uuggugucgu 20

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<210> 15183
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<220>
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cccugcagag aaacacacuu 20

<210> 15184
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<220>
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<210> 15185
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<220>
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gggcacaaag gucagggguu 20

<210> 15186
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<220>
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<400> 15186
gacuggccag ggcgccug 18

<210> 15187
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<220>
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<400> 15187
cgacuggcca gggcgccug 19

<210> 15188
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<220>
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<210> 15189
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<220>
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<400> 15189
gacgacuggc cagggcgccu g 21

<210> 15190
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<400> 15190
agacgacugg ccagggcgcc ug 22

<210> 15191
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<220>
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<400> 15191
cagacgacug gccagggcgc cug 23

<210> 15192
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<220>
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<400> 15192
ccagacgacu ggccagggcg ccug 24

<210> 15193
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<400> 15193
gggggguucca gggccugucu g 21

<210> 15194
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<220>
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<400> 15194
ggggggguucc agggccuguc ug 22

<210> 15195
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<220>
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<400> 15195
ggggggguuc cagggccugu cug 23

<210> 15196
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<220>
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<400> 15196
uggggggguu ccagggccug ucug 24

<210> 15197
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<220>
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<400> 15197
uacaacuggg cuggcggc 18

<210> 15198
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<220>
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<400> 15198
cuacaacugg gcuggcggc 19

<210> 15199
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<220>
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<400> 15199
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<210> 15200
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<220>
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<400> 15200
ugcuacaacu gggcuggcgg c 21

<210> 15201
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<220>
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<400> 15201
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<210> 15202
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<220>
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<400> 15202
ggugcuacaa cugggcuggc ggc 23

<210> 15203
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<220>
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<400> 15203
cggugcuaca acugggcugg cggc 24

<210> 15204
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<220>
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<400> 15204
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<210> 15205
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<220>
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<400> 15205
aggaugguuc uuagguagg 19

<210> 15206
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<220>
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<400> 15206
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<210> 15207
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<220>
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<400> 15207
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<210> 15208
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<220>
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<400> 15208
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<210> 15209
<211> 23
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<220>
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<400> 15209
ggccaggaug guucuuaggu agg 23

<210> 15210
<211> 24
<212> RNA
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<220>
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<400> 15210
cggccaggau gguucuuagg uagg 24

<210> 15211
<211> 21
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<220>
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<400> 15211
agagagccug cgggcagagc u 21

<210> 15212
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
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<400> 15212
aagagagccu gcgggcagag cu 22

<210> 15213
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<212> RNA
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<220>
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<400> 15213
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<210> 15214
<211> 24
<212> RNA
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<220>
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<400> 15214
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<210> 15215
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<220>
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<400> 15215
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<210> 15216
<211> 19
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<220>
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<400> 15216
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<210> 15217
<211> 20
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<220>
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<400> 15217
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<210> 15218
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<220>
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<400> 15218
gcaugccugg agcagcccca c 21

<210> 15219
<211> 22
<212> RNA
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<220>
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<400> 15219
ugcaugccug gagcagcccc ac 22

<210> 15220
<211> 23
<212> RNA
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<220>
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<400> 15220
cugcaugccu ggagcagccc cac 23

<210> 15221
<211> 24
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<220>
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<400> 15221
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<210> 15222
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<220>
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<400> 15222
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<210> 15223
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<400> 15223
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<210> 15224
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<220>
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<400> 15224
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<210> 15225
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<220>
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<400> 15225
gcagggcugg ggagaaggug g 21

<210> 15226
<211> 22
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<213> Artificial Sequence

<220>
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<400> 15226
agcagggcug gggagaaggu gg 22

<210> 15227
<211> 23
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<220>
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<400> 15227
gagcagggcu ggggagaagg ugg 23

<210> 15228
<211> 24
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<220>
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<400> 15228
cgagcagggc uggggagaag gugg 24

<210> 15229
<211> 18
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<220>
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<400> 15229
gguuccaggg ccugucug 18

<210> 15230
<211> 19
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<220>
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<400> 15230
ggguuccagg gccugucug 19

<210> 15231
<211> 20
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<220>
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<400> 15231
gggguuccag ggccugucug 20

<210> 15232
<211> 18
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<220>
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<400> 15232
ccucggaggc cccggggc 18

<210> 15233
<211> 19
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<220>
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<400> 15233
gccucggagg ccccggggc 19

<210> 15234
<211> 20
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<220>
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<400> 15234
ggccucggag gccccggggc 20

<210> 15235
<211> 21
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<220>
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<400> 15235
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<210> 15236
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<220>
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<400> 15236
gcggccucgg aggccccggg gc 22

<210> 15237
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<220>
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<400> 15237
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<210> 15238
<211> 24
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<220>
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<400> 15238
gugcggccuc ggaggccccg gggc 24

<210> 15239
<211> 18
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<220>
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<400> 15239
gagccugcgg gcagagcu 18

<210> 15240
<211> 19
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<220>
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<400> 15240
agagccugcg ggcagagcu 19

<210> 15241
<211> 20
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<220>
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<400> 15241
gagagccugc gggcagagcu 20

<210> 15242
<211> 18
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<220>
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<400> 15242
uugggcaguu gugugaca 18

<210> 15243
<211> 19
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<213> Artificial Sequence

<220>
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<400> 15243
guuggcagu ugugugaca 19

<210> 15244
<211> 20
<212> RNA
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<220>
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<400> 15244
cguuggcag uugugugaca 20

<210> 15245
<211> 21
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<220>
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<210> 15246
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<220>
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<400> 15246
cccguuggc aguuguguga ca 22

<210> 15247
<211> 23
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<220>
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<400> 15247
gcccguuggg caguugugug aca 23

<210> 15248
<211> 24
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<220>
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<400> 15248
cgcccguugg gcaguugugu gaca 24

<210> 15249
<211> 18
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<220>
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<400> 15249
gccagggaga uggcccca 18

<210> 15250
<211> 19
<212> RNA
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<220>
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<400> 15250
ggccagggag auggcccca 19

<210> 15251
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<220>
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<400> 15251
gggccaggga gauggcccca 20

<210> 15252
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<220>
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<210> 15253
<211> 22
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<220>
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<400> 15253
gggggccagg gagauggccc ca 22

<210> 15254
<211> 23
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<220>
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<400> 15254
uggggggccag ggagauggcc cca 23

<210> 15255
<211> 24
<212> RNA
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<220>
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<400> 15255
uuggggggcca gggagauggc ccca 24

<210> 15256
<211> 18
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<220>
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<400> 15256
ucugcgccuu gggggcca 18

<210> 15257
<211> 19
<212> RNA
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<220>
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<400> 15257
aucugcgccu ugggggcca 19

<210> 15258
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-47

<400> 15258
gaucugcgcc uuggggggcca 20

<210> 15259
<211> 21
<212> RNA
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<220>
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<400> 15259
ugaucugcgc cuuggggggcc a 21

<210> 15260
<211> 22
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-3251

<400> 15260
uugaucugcg ccuuuggggc ca 22

<210> 15261
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
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<400> 15261
uuugaucugc gccuuuggggg cca 23

<210> 15262
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3253

<400> 15262
cuuugaucug cgccuuuggg gcca 24

<210> 15263
<211> 18
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<220>
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<400> 15263
ucuggggagu cugagaga 18

<210> 15264
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3255

<400> 15264
gucuggggag ucugagaga 19

<210> 15265
<211> 20
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<220>
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<400> 15265
ugucugggga gucugagaga 20

<210> 15266
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3256

<400> 15266
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<210> 15267
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3257

<400> 15267
ccugucuggg gagucugaga ga 22

<210> 15268
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3258

<400> 15268
gccugucugg ggagucugag aga 23

<210> 15269
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3259

<400> 15269
ggccugucug gggagucuga gaga 24

<210> 15270
<211> 18
<212> RNA
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<220>
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<400> 15270
gauggagaga ggugagga 18

<210> 15271
<211> 19
<212> RNA
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<220>
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<400> 15271
agauggagag aggugagga 19

<210> 15272
<211> 20
<212> RNA
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<220>
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<400> 15272
gagauggaga gaggugagga 20

<210> 15273
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-3262

<400> 15273
agagauggag agaggugagg a 21

<210> 15274
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3263

<400> 15274
gagagaugga gagaggugag ga 22

<210> 15275
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-3264

<400> 15275
ugagagaugg agagagguga gga 23

<210> 15276
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-3265

<400> 15276
cugagagaug gagagaggug agga 24

<210> 15277
<211> 18
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-3266

<400> 15277
gggagucuga gagaugga 18

<210> 15278
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
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<400> 15278
ggggagucug agagaugga 19

<210> 15279
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-599

<400> 15279
uggggagucu gagagaugga 20

<210> 15280
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-3268

<400> 15280
cuggggaguc ugagagaugg a 21

<210> 15281
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
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<210> 15297
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<400> 15297
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<210> 15304
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<210> 15305
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<220>
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<210> 15306
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<210> 15309
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<400> 15309
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<210> 15310
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<220>
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<400> 15310
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<210> 15311
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<400> 15311
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<210> 15312
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<400> 15312
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<210> 15313
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<220>
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<210> 15314
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<220>
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<210> 15316
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<220>
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<210> 15317
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<210> 15318
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<400> 15318
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<210> 15319
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<210> 15322
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<210> 15323
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<210> 15324
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<210> 15325
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<210> 15328
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<210> 15331
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<210> 15332
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<210> 15333
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<210> 15337
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<210> 15338
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<210> 15339
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<220>
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<400> 15342
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<210> 15343
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<210> 15344
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<400> 15344
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<210> 15345
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<400> 15345
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<210> 15346
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<400> 15346
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<210> 15347
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<400> 15347
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<210> 15348
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<220>
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<400> 15348
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<210> 15349
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<220>
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<400> 15350
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<210> 15351
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<220>
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<400> 15351
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<210> 15352
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<400> 15352
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<210> 15353
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<210> 15354
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<220>
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<220>
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<220>
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<210> 15358
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<210> 15361
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<210> 15362
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<220>
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ggcgccugug ggaucugcau gc 22

<210> 15366
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<210> 15367
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<400> 15367
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<210> 15368
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<210> 15370
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<220>
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<210> 15371
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<210> 15372
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<400> 15372
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<210> 15373
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<400> 15373
ggccagcuug uccgucuggu ugc 23

<210> 15374
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<400> 15374
cggccagcuu guccgucugg uugc 24

<210> 15375
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<400> 15375
gggcuggcug cgguccuc 18

<210> 15376
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<210> 15378
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<210> 15379
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<210> 15380
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<210> 15381
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<220>
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<400> 15381
cuggccgggc uggcugcggu ccuc 24

<210> 15382
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<220>
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<210> 15383
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<220>
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<400> 15383
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<210> 15384
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<220>
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<400> 15384
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<210> 15385
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<220>
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<400> 15385
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<210> 15386
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<220>
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<400> 15386
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<210> 15387
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<220>
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<400> 15387
gugggggggu uccagggccu guc 23

<210> 15388
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<400> 15388
ggugggggggg uuccagggcc uguc 24

<210> 15389
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<400> 15389
gagaaggugg gggggguuc 18

<210> 15390
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<220>
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<400> 15390
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<210> 15391
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<220>
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<210> 15392
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<220>
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<210> 15393
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<220>
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<210> 15394
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<220>
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<400> 15394
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<210> 15395
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<400> 15395
gcuggggaga aggugggggg guuc 24

<210> 15396
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<210> 15397
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<220>
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<210> 15398
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<220>
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<210> 15399
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<400> 15399
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<210> 15400
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<400> 15400
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<210> 15401
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<220>
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<210> 15449
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<210> 15450
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<210> 15451
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<210> 15452
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<210> 15456
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<210> 15494
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<210> 15498
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<210> 15499
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<210> 15502
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<210> 15503
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<220>
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<210> 15504
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<220>
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<400> 15504
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<210> 15505
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<210> 15506
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<220>
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<210> 15507
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<220>
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<400> 15507
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<210> 15508
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<220>
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<210> 15509
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<220>
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<210> 15510
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<400> 15511
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<210> 15512
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<400> 15512
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<210> 15513
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<210> 15514
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<210> 15518
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<210> 15519
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<210> 15520
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<210> 15521
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<210> 15632
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<210> 15633
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<210> 15638
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<210> 15640
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<210> 15661
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<400> 15661
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ugcagcuucu ccaacaca 18

<210> 15663
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<210> 15664
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<220>
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<220>
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<210> 15666
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<210> 15667
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<210> 15668
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<210> 15669
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<220>
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<400> 15669
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<210> 15670
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<220>
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<210> 15671
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<220>
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<210> 15672
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<400> 15672
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<210> 15673
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<220>
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<400> 15673
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<210> 15674
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<220>
<223> Synthetic oligonucleotide: PDCD1-3606

<400> 15674
cuuccguguc acacaacugc cca 23

<210> 15675
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<210> 15676
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<220>
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<400> 15676
cccccaaggc gcagauca 18

<210> 15677
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<220>
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gcccccaagg cgcagauca 19

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ggcccccaag gcgcagauca 20

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<400> 15680
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<210> 15681
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<400> 15681
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<210> 15682
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<220>
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<400> 15687
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<210> 15688
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<220>
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<400> 15688
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<210> 15689
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<220>
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<400> 15689
cccagcccug cucgugguga ccga 24

<210> 15690
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<220>
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<210> 15691
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<220>
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<210> 15692
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<220>
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<210> 15693
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<400> 15693
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<210> 15694
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<220>
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<400> 15694
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<210> 15695
<211> 23
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<220>
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<400> 15695
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<210> 15696
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<210> 15697
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<210> 15698
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<220>
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<400> 15699
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<400> 15700
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<210> 15701
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<220>
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<400> 15701
gcccaacggg cgugacuucc ac 22

<210> 15702
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<220>
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<400> 15702
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<210> 15703
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<400> 15703
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<210> 15704
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<220>
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<400> 15704
aagcuggccg ccuucccc 18

<210> 15705
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<220>
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<400> 15705
caagcuggcc gccuucccc 19

<210> 15706
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<220>
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acaagcuggc cgccuucccc 20

<210> 15707
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<220>
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<400> 15707
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<210> 15708
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<220>
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<400> 15708
ggacaagcug gccgccuucc cc 22

<210> 15709
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<220>
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<400> 15709
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<210> 15710
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<220>
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<400> 15710
acggacaagc uggccgccuu cccc 24

<210> 15711
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<220>
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gacuccccag acaggccc 18

<210> 15712
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<400> 15712
agacucccca gacaggccc 19

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<220>
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<210> 15714
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<400> 15714
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<210> 15715
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<220>
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<210> 15716
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<220>
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<400> 15716
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<210> 15717
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<220>
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<210> 15718
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<210> 15719
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<210> 15720
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<400> 15721
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<210> 15722
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<220>
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<400> 15722
acaggugcgg ccucggaggc cc 22

<210> 15723
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<220>
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<400> 15723
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<210> 15724
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<400> 15724
ugacaggugc ggccucggag gccc 24

<210> 15725
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<220>
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<400> 15725
agacucccca gacaggcc 18

<210> 15726
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<220>
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<400> 15726
cagacucccc agacaggcc 19

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<220>
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<400> 15727
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<210> 15728
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<220>
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<400> 15728
cucagacucc ccagacaggc c 21

<210> 15729
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<220>
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<400> 15729
ucucagacuc cccagacagg cc 22

<210> 15730
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<220>
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<400> 15730
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<210> 15731
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<220>
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<400> 15731
ucucucagac uccccagaca ggcc 24

<210> 15732
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<220>
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<400> 15732
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<210> 15733
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<220>
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<400> 15733
aggugcggcc ucggaggcc 19

<210> 15734
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<220>
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<400> 15734
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<210> 15735
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<220>
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<400> 15735
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<210> 15736
<211> 22
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<220>
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<400> 15736
gacaggugcg gccucggagg cc 22

<210> 15737
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<220>
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<400> 15737
ugacaggugc ggccucggag gcc 23

<210> 15738
<211> 24
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<220>
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<400> 15738
gugacaggug cggccucgga ggcc 24

<210> 15739
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<220>
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<400> 15739
agggugacag gugcggcc 18

<210> 15740
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<220>
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<400> 15740
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<210> 15741
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<220>
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<400> 15741
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<210> 15742
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<220>
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<400> 15742
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<210> 15743
<211> 22
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<220>
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<400> 15743
gcucagggug acaggugcgg cc 22

<210> 15744
<211> 23
<212> RNA
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<220>
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<400> 15744
agcucagggu gacaggugcg gcc 23

<210> 15745
<211> 24
<212> RNA
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<220>
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<400> 15745
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<210> 15746
<211> 18
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<220>
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<400> 15746
acaagcuggc cgccuucc 18

<210> 15747
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<220>
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<400> 15747
gacaagcugg ccgccuucc 19

<210> 15748
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<220>
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<400> 15748
ggacaagcug gccgccuucc 20

<210> 15749
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<220>
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<400> 15749
cggacaagcu ggccgccuuc c 21

<210> 15750
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<220>
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<400> 15750
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<210> 15751
<211> 23
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<220>
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<400> 15751
gacggacaag cuggccgccu ucc 23

<210> 15752
<211> 24
<212> RNA
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<220>
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<400> 15752
agacggacaa gcuggccgcc uucc 24

<210> 15753
<211> 18
<212> RNA

<213> Artificial Sequence

<220>
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<400> 15753
gugcuaaacu gguaccgc 18

<210> 15754
<211> 19
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<213> Artificial Sequence

<220>
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<400> 15754
cgugcuaaac ugguaccgc 19

<210> 15755
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 15755
ucgugcuaaa cugguaccgc 20

<210> 15756
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-3676

<400> 15756
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<210> 15757
<211> 22
<212> RNA
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<220>
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<400> 15757
cuucgugcua aacugguacc gc 22

<210> 15758
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
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<400> 15758
gcuucgugcu aaacugguac cgc 23

<210> 15759
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-3679

<400> 15759
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<210> 15760
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3680

<400> 15760
gaccgcagcc agcccggc 18

<210> 15761
<211> 19
<212> RNA
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<220>
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<400> 15761
ggaccgcagc cagcccggc 19

<210> 15762
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<210> 15787
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<210> 15788
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<210> 15792
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<210> 15793
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<210> 15794
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<210> 15795
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<210> 15796
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aucaaagaga gccugcggg 19

<210> 15797
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<220>
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<400> 15797
gaucaaagag agccugcggg 20

<210> 15798
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<220>
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<400> 15801
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<400> 15803
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<210> 15807
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<210> 15809
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<210> 15813
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<400> 15813
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<210> 15814
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<400> 15814
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<210> 15815
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<210> 15818
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<400> 15819
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<210> 15820
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<400> 15820
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<210> 15821
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<220>
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<400> 15821
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<210> 15822
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<400> 15822
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<210> 15823
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<400> 15825
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<400> 15829
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<400> 15834
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<210> 15835
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<210> 15836
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<400> 15836
agcucagggu gacaggugcg gccu 24

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<210> 15842
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<210> 15843
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<220>
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<400> 15843
gcaaugacag cggcaccuac cucu 24

<210> 15844
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<220>
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<400> 15844
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<210> 15845
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<220>
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<400> 15845
aggcgcccug gccagucgu 19

<210> 15846
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<220>
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<400> 15846
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<210> 15847
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<220>
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<400> 15847
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<210> 15848
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<220>
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<400> 15848
cacaggcgcc cuggccaguc gu 22

<210> 15849
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<220>
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<400> 15849
ccacaggcgc ccuggccagu cgu 23

<210> 15850
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<220>
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<400> 15850
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<210> 15851
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<220>
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<400> 15851
cuuccacaug agcguggu 18

<210> 15852
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<220>
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<400> 15852
acuuccacau gagcguggu 19

<210> 15853
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<220>
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<400> 15853
gacuuccaca ugagcguggu 20

<210> 15854
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<220>
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<400> 15854
ugacuuccac augagcgugg u 21

<210> 15855
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<220>
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<400> 15855
gugacuucca caugagcgug gu 22

<210> 15856
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<220>
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<400> 15856
cgugacuucc acaugagcgu ggu 23

<210> 15857
<211> 24
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<220>
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<400> 15857
gcgugacuuc cacaugagcg uggu 24

<210> 15858
<211> 18
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<220>
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<400> 15858
uuugaggaga aagggaga 18

<210> 15859
<211> 19
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<220>
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<400> 15859
cuuugaggag aaagggaga 19

<210> 15860
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<212> RNA
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<220>
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<400> 15860
ucuuugagga gaaagggaga 20

<210> 15861
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<220>
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<400> 15861
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<210> 15862
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<220>
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<400> 15862
cuucuuugag gagaaaggga ga 22

<210> 15863
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<220>
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<400> 15863
ccuucuuuga ggagaaaggg aga 23

<210> 15864
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<220>
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<400> 15864
uccuucuuug aggagaaagg gaga 24

<210> 15865
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<220>
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<400> 15865
gcccacgaca ccaaccac 18

<210> 15866
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<212> RNA
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<220>
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<400> 15866
cgcccacgac accaaccac 19

<210> 15867
<211> 20
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<220>
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<400> 15867
ccgcccacga caccaaccac 20

<210> 15868
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<220>
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<400> 15868
gccgcccacg acaccaacca c 21

<210> 15869
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<220>
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<400> 15869
ggccgcccac gacaccaacc ac 22

<210> 15870
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<220>
<223> Synthetic oligonucleotide: PDCD1-3774

<400> 15870
aggccgccca cgacaccaac cac 23

<210> 15871
<211> 24
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<220>
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<400> 15871
caggccgccc acgacaccaa ccac 24

<210> 15872
<211> 18
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<220>
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<400> 15872
cuggccuggg ugaggggc 18

<210> 15873
<211> 19
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<220>
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<400> 15873
gcuggccugg gugaggggc 19

<210> 15874
<211> 20
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<220>
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<400> 15874
ggcuggccug ggugaggggc 20

<210> 15875
<211> 21
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<220>
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<400> 15875
cggcuggccu gggugagggg c 21

<210> 15876
<211> 22
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<220>
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<400> 15876
ccggcuggcc ugggugaggg gc 22

<210> 15877
<211> 23
<212> RNA
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<220>
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<400> 15877
gccggcuggc cugggugagg ggc 23

<210> 15878
<211> 24
<212> RNA
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<220>
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<400> 15878
ggccggcugg ccugggugag gggc 24

<210> 15879
<211> 18
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<220>
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<400> 15879
uggaacuggc cggcuggc 18

<210> 15880
<211> 19
<212> RNA
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<220>
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<400> 15880
uuggaacugg ccggcuggc 19

<210> 15881
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<220>
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<400> 15881
uuuggaacug gccggcuggc 20

<210> 15882
<211> 21
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<220>
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<400> 15882
guuuggaacu ggccggcugg c 21

<210> 15883
<211> 22
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acagagaaca caggcacggc ug 22

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<210> 15942
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<210> 15949
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<210> 15952
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<210> 15953
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<400> 15953
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<210> 15954
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<210> 15955
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<210> 15963
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<400> 15966
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<210> 15967
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<400> 15967
ugggcagccu ggugcugcua gu 22

<210> 15968
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<400> 15968
cugggcagcc uggugcugcu agu 23

<210> 15969
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<400> 15969
gcugggcagc cuggugcugc uagu 24

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<400> 15970
uccuucuuug aggagaaa 18

<210> 15971
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<400> 15971
cuccuucuuu gaggagaaa 19

<210> 15972
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<210> 15974
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<220>
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<400> 15974
guccuccuuc uuugaggaga aa 22

<210> 15975
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<220>
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<400> 15975
gguccuccuu cuuugaggag aaa 23

<210> 15976
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<400> 15976
ggguccuccu ucuuugagga gaaa 24

<210> 15977
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<210> 15978
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<400> 15978
ccuccuucuu ugaggagaa 19

<210> 15979
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<210> 15980
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<210> 15981
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<400> 15981
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<210> 15982
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<220>
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<400> 15982
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<210> 15983
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<400> 15983
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<210> 15984
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<220>
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<400> 15984
agcuccccau aguccaca 18

<210> 15985
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<220>
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<400> 15985
cagcucccca uaguccaca 19

<210> 15986
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<220>
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<400> 15986
ccagcucccc auaguccaca 20

<210> 15987
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<220>
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<400> 15987
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<210> 15988
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<220>
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<400> 15988
auccagcucc ccauagucca ca 22

<210> 15989
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<220>
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<400> 15989
aauccagcuc cccauagucc aca 23

<210> 15990
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<220>
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<400> 15990
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<210> 15991
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<220>
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<400> 15991
uccgucugcu cagggaca 18

<210> 15992
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<220>
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<400> 15992
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<210> 15993
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<220>
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<400> 15993
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<210> 15994
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<220>
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<400> 15994
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<210> 15995
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<400> 15995
auacuccguc ugcucaggga ca 22

<210> 15996
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<220>
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<400> 15996
cauacuccgu cugcucaggg aca 23

<210> 15997
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<400> 15997
gcauacuccg ucugcucagg gaca 24

<210> 15998
<211> 18
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<220>
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<400> 15998
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<210> 15999
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<220>
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<400> 15999
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<210> 16000
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<220>
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<210> 16001
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<220>
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<210> 16002
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<210> 16003
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<220>
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gggcuccggg gucuucucuc gcca 24

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gcagaacacu gguggcca 18

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ugcagaacac ugguggcca 19

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cugcagaaca cugguggcca 20

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<400> 16008
ccagcucccc auagucca 18

<210> 16009
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uccagcuccc cauagucca 19

<210> 16010
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auccagcucc ccauagucca 20

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<210> 16012
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<400> 16012
aaauccagcu ccccauaguc ca 22

<210> 16013
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<400> 16013
gaaauccagc uccccauagu cca 23

<210> 16014
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<400> 16014
ggaaauccag cuccccauag ucca 24

<210> 16015
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gcucagggac acagggca 18

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ugcucaggga cacagggca 19

<210> 16017
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<210> 16018
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<210> 16019
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<400> 16019
gucugcucag ggacacaggg ca 22

<210> 16020
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<220>
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<210> 16021
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<220>
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<400> 16021
ccgucugcuc agggacacag ggca 24

<210> 16022
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<220>
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<210> 16023
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<220>
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<400> 16023
ggcuccuauu gucccugca 19

<210> 16024
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<220>
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<210> 16025
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<220>
<223> Synthetic oligonucleotide: PDCD1-3906

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<210> 16026
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<220>
<223> Synthetic oligonucleotide: PDCD1-3907

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<210> 16027
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<220>
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<210> 16028
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<220>
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cgccuggcuc cuauugucccc ugca 24

<210> 16029
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<220>
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ggccaaggaa gccgguca 18

<210> 16030
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uggccaagga agccgguca 19

<210> 16031
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<220>
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<210> 16032
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<223> Synthetic oligonucleotide: PDCD1-3912

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<210> 16033
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<220>
<223> Synthetic oligonucleotide: PDCD1-3913

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uggуggccaa ggaagccggu ca 22

<210> 16034
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<400> 16034
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<210> 16035
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<220>
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<400> 16035
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<210> 16036
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<220>
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<400> 16036
ccuccuucuu ugaggaga 18

<210> 16037
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<220>
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uccuccuucu uugaggaga 19

<210> 16038
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<220>
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<400> 16038
guccuccuuc uuugaggaga 20

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<400> 16040
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<210> 16041
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<400> 16041
gggguccucc uucuuugagg aga 23

<210> 16042
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<400> 16042
agggguccuc cuucuuugag gaga 24

<210> 16043
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<220>
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<210> 16044
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<400> 16044
uucuuugagg agaaaggga 19

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<220>
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<210> 16046
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<210> 16047
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<400> 16047
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<210> 16048
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<220>
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cuccuucuuu gaggagaaag gga 23

<210> 16049
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<400> 16049
ccuccuucuu ugaggagaaa ggga 24

<210> 16050
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<400> 16050
cccugcagag aaacacac 18

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<400> 16051
ucccugcaga gaaacacac 19

<210> 16052
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<220>
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<400> 16052
gucccugcag agaaacacac 20

<210> 16053
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<220>
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<400> 16053
ugucccugca gagaaacaca c 21

<210> 16054
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<220>
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<400> 16054
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<210> 16055
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auugucccug cagagaaaca cac 23

<210> 16056
<211> 24
<212> RNA
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<220>
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<400> 16056
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<210> 16057
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<220>
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<220>
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<210> 16059
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<220>
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<400> 16059
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uccggggucu ucucucgcca c 21

<210> 16061
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cuccgggguc uucucucgcc ac 22

<210> 16062
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<400> 16062
gcuccggggu cuucucucgc cac 23

<210> 16063
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<400> 16063
ggcuccgggg ucuucucucg ccac 24

<210> 16064
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<400> 16064
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<210> 16065
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<400> 16065
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<210> 16066
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<400> 16066
ugcucaggga cacagggcac 20

<210> 16067
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<400> 16067
cugcucaggg acacagggca c 21

<210> 16068
<211> 22
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<220>
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<400> 16068
ucugcucagg gacacagggc ac 22

<210> 16069
<211> 23
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<220>
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<400> 16069
gucugcucag ggacacaggg cac 23

<210> 16070
<211> 24
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<220>
<223> Synthetic oligonucleotide: PDCD1-3945

<400> 16070
cgucugcuca gggacacagg gcac 24

<210> 16071
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<220>
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<400> 16071
gaaaagagug agacucac 18

<210> 16072
<211> 19
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<220>
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<400> 16072
ggaaaagagu gagacucac 19

<210> 16073
<211> 20
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<220>
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<400> 16073
aggaaaagag ugagacucac 20

<210> 16074
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<400> 16074
caggaaaaga gugagacuca c 21

<210> 16075
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<220>
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<400> 16075
gcaggaaaag agugagacuc ac 22

<210> 16076
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<400> 16076
ugcaggaaaa gagugagacu cac 23

<210> 16077
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<400> 16077
augcaggaaa agagugagac ucac 24

<210> 16078
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<220>
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<400> 16078
aaaagaguga gacucacc 18

<210> 16079
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<220>
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gaaaagagug agacucacc 19

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<220>
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<220>
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<400> 16081
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<210> 16082
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<220>
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<400> 16082
caggaaaaga gugagacuca cc 22

<210> 16083
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<220>
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<400> 16083
gcaggaaaag agugagacuc acc 23

<210> 16084
<211> 24
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<220>
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<400> 16084
ugcaggaaaa gagugagacu cacc 24

<210> 16085
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<220>
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<400> 16085
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<210> 16086
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<220>
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<400> 16086
acguuaccuc gugcggccc 19

<210> 16087
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<220>
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<400> 16087
gacguuaccu cgugcggccc 20

<210> 16088
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<220>
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<400> 16088
ugacguuacc ucgugcggcc c 21

<210> 16089
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<220>
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<400> 16089
augacguuac cucgugcggc cc 22

<210> 16090
<211> 23
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<220>
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<400> 16090
gaugacguua ccucgugcgg ccc 23

<210> 16091
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<220>
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<400> 16091
ggaugacguu accucgugcg gccc 24

<210> 16092
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<220>
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<400> 16092
acguuaccuc gugcggcc 18

<210> 16093
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<220>
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<400> 16093
gacguuaccu cgugcggcc 19

<210> 16094
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<220>
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<400> 16094
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<210> 16095
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<220>
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<400> 16095
augacguuac cucgugcggc c 21

<210> 16096
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<220>
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<400> 16096
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<210> 16097
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<220>
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<400> 16097
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<210> 16098
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<220>
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<400> 16098
gggaugacgu uaccucgugc ggcc 24

<210> 16099
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<220>
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<400> 16099
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<210> 16100
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<220>
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<400> 16100
gaagccgguc agaggggcc 19

<210> 16101
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<220>
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<400> 16101
ggaagccggu cagaggggcc 20

<210> 16102
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<212> RNA
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<220>
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<400> 16102
aggaagccgg ucagaggggc c 21

<210> 16103
<211> 22
<212> RNA
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<220>
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<400> 16103
aaggaagccg gucagagggg cc 22

<210> 16104
<211> 23
<212> RNA
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<220>
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<400> 16104
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<210> 16105
<211> 24
<212> RNA
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<220>
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<400> 16105
ccaaggaagc cggucagagg ggcc 24

<210> 16106
<211> 18
<212> RNA
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<220>
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<400> 16106
ucaguggcug ggcacucc 18

<210> 16107
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3977

<400> 16107
cucaguggcu gggcacucc 19

<210> 16108
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-871

<400> 16108
ccucaguggc ugggcacucc 20

<210> 16109
<211> 21
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<220>
<223> Synthetic oligonucleotide: PDCD1-3978

<400> 16109
gccucagugg cugggcacuc c 21

<210> 16110
<211> 22
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<213> Artificial Sequence

<220>
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<400> 16110
ggccucagug gcugggcacu cc 22

<210> 16111
<211> 23
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<220>
<223> Synthetic oligonucleotide: PDCD1-3980

<400> 16111
aggccucagu ggcugggcac ucc 23

<210> 16112
<211> 24
<212> RNA
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<220>
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<400> 16112
caggccucag uggcugggca cucc 24

<210> 16113
<211> 18
<212> RNA
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<220>
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<400> 16113
augaggugcc cauuccgc 18

<210> 16114
<211> 19
<212> RNA
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<220>
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<400> 16114
gaugaggugc ccauuccgc 19

<210> 16115
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-863

<400> 16115
ggaugaggug cccauuccgc 20

<210> 16116
<211> 21
<212> RNA
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<220>
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<400> 16116
gggaugaggu gcccauuccg c 21

<210> 16117
<211> 22
<212> RNA
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<220>
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<400> 16117
ggggaugagg ugcccauucc gc 22

<210> 16118
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3986

<400> 16118
gggggaugag gugcccauuc cgc 23

<210> 16119
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3987

<400> 16119
cgggggauga ggugcccauu ccgc 24

<210> 16120
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3988

<400> 16120
ccgggagcag augacggc 18

<210> 16121
<211> 19
<212> RNA
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<220>
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<400> 16121
cccgggagca gaugacggc 19

<210> 16122
<211> 20
<212> RNA
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<220>
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<400> 16122
gcccgggagc agaugacggc 20

<210> 16123
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3990

<400> 16123
ggcccgggag cagaugacgg c 21

<210> 16124
<211> 22
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ugacguuacc ucgugcggc 19

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ugggaugacg uuaccucgug cggc 24

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gucugcucag ggacacaggg c 21

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<210> 16139
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<210> 16140
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<210> 16141
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agcugagccc cugcgggc 18

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<210> 16145
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<210> 16146
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<210> 16147
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<210> 16148
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<220>
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ggcauacucc gucugcuc 18

<210> 16149
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<210> 16150
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<220>
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<210> 16151
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gguggcauac uccgucugcu c 21

<210> 16152
<211> 22
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<400> 16152
ugguggcaua cuccgucugc uc 22

<210> 16153
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augguggcau acuccgucug cuc 23

<210> 16154
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<220>
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aaugguggca uacuccgucu gcuc 24

<210> 16155
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<220>
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cacuucugcc cuucucuc 18

<210> 16156
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<220>
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<210> 16157
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<220>
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<210> 16158
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gggcacuucu gcccuucucu c 21

<210> 16159
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<220>
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<400> 16159
ugggcacuuc ugcccuucuc uc 22

<210> 16160
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<220>
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<400> 16160
gugggcacuu cugcccuucu cuc 23

<210> 16161
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<400> 16161
ugugggcacu ucugcccuuc ucuc 24

<210> 16162
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<400> 16162
cacuccgagg gccgucag 18

<210> 16163
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gcacuccgag ggccgucag 19

<210> 16164
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<220>
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<400> 16164
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<210> 16165
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<400> 16165
gggcacuccg agggccguca g 21

<210> 16166
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ugggcacucc gagggccguc ag 22

<210> 16167
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<220>
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cugggcacuc cgagggccgu cag 23

<210> 16168
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<210> 16169
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<210> 16170
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<210> 16171
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<400> 16172
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<210> 16173
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gguggccaag gaagccgguc ag 22

<210> 16174
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<400> 16174
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<210> 16175
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<400> 16175
cugguggcca aggaagccgg ucag 24

<210> 16176
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<220>
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<210> 16178
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<400> 16179
cuucuuugag gagaaaggga g 21

<210> 16180
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<400> 16180
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<210> 16181
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<220>
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<400> 16181
uccuucuuug aggagaaagg gag 23

<210> 16182
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<220>
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<400> 16182
cuccuucuuu gaggagaaag ggag 24

<210> 16183
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<210> 16184
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gggguccucc uucuuugag 19

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<220>
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<400> 16186
gaggguccu ccuucuuuga g 21

<210> 16187
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<400> 16187
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<210> 16188
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<400> 16188
cugaggguc cuccuucuuu gag 23

<210> 16189
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<400> 16189
gcugaggggu ccuccuucuu ugag 24

<210> 16190
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<220>
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<400> 16190
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<210> 16191
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<220>
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<400> 16191
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<210> 16192
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<220>
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<400> 16192
gcucagggac acagggcacg 20

<210> 16193
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<400> 16193
ugcucaggga cacagggcac g 21

<210> 16194
<211> 22
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<400> 16194
cugcucaggg acacagggca cg 22

<210> 16195
<211> 23
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<400> 16195
ucugcucagg gacacagggc acg 23

<210> 16196
<211> 24
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<400> 16196
gucugcucag ggacacaggg cacg 24

<210> 16197
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<220>
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<400> 16197
cuucuuugag gagaaagg 18

<210> 16198
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<220>
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<400> 16198
ccuucuuuga ggagaaagg 19

<210> 16199
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<220>
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<210> 16200
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<220>
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<210> 16201
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<220>
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<210> 16202
<211> 23
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<220>
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<400> 16202
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<210> 16203
<211> 24
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<220>
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<400> 16203
guccuccuuc uuugaggaga aagg 24

<210> 16204
<211> 18
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<220>
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<400> 16204
cagagaacac aggcacgg 18

<210> 16205
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<220>
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<400> 16205
acagagaaca caggcacgg 19

<210> 16206
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<220>
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<400> 16206
cacagagaac acaggcacgg 20

<210> 16207
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<220>
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<400> 16207
ccacagagaa cacaggcacg g 21

<210> 16208
<211> 22
<212> RNA
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<220>
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<400> 16208
uccacagaga acacaggcac gg 22

<210> 16209
<211> 23
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<220>
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<400> 16209
guccacagag aacacaggca cgg 23

<210> 16210
<211> 24
<212> RNA
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<220>
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<400> 16210
aguccacaga gaacacaggc acgg 24

<210> 16211
<211> 18
<212> RNA
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<220>
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<400> 16211
ucagcugagc cccugcgg 18

<210> 16212
<211> 19
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<213> Artificial Sequence

<220>
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<400> 16212
gucagcugag ccccugcgg 19

<210> 16213
<211> 20
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<220>
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<400> 16213
cgucagcuga gccccugcgg 20

<210> 16214
<211> 21
<212> RNA
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<220>
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<400> 16214
ccgucagcug agccccugcg g 21

<210> 16215
<211> 22
<212> RNA
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<220>
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<400> 16215
gccgucagcu gagccccugc gg 22

<210> 16216
<211> 23
<212> RNA
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<220>
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<400> 16216
ggccgucagc ugagccccug cgg 23

<210> 16217
<211> 24
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<220>
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<400> 16217
gggccgucag cugagccccu gcgg 24

<210> 16218
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<220>
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<400> 16218
cagcugagcc ccugcggg 18

<210> 16219
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<220>
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<400> 16219
ucagcugagc cccugcggg 19

<210> 16220
<211> 20
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<220>
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<400> 16220
gucagcugag ccccugcggg 20

<210> 16221
<211> 21
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<220>
<223> Synthetic oligonucleotide: PDCD1-4074

<400> 16221
cgucagcuga gccccugcgg g 21

<210> 16222
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4075

<400> 16222
ccgucagcug agccccugcg gg 22

<210> 16223
<211> 23
<212> RNA
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<220>
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<400> 16223
gccgucagcu gagccccugc ggg 23

<210> 16224
<211> 24
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<220>
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<400> 16224
ggccgucagc ugagccccug cggg 24

<210> 16225
<211> 18
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<220>
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<400> 16225
gcuggccugg gugagggg 18

<210> 16226
<211> 19
<212> RNA
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<220>
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<400> 16226
ggcuggccug ggugagggg 19

<210> 16227
<211> 20
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<220>
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<400> 16227
cggcuggccu gggugagggg 20

<210> 16228
<211> 21
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<220>
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<400> 16228
ccggcuggcc ugggugaggg g 21

<210> 16229
<211> 22
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<213> Artificial Sequence

<220>
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<400> 16229
gccggcuggc cugggugagg gg 22

<210> 16230
<211> 23
<212> RNA
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<220>
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<400> 16230
ggccggcugg ccugggugag ggg 23

<210> 16231
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<212> RNA
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<220>
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<400> 16231
uggccggcug gccuggguga gggg 24

<210> 16232
<211> 18
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<220>
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<400> 16232
agccccugcg ggcggggg 18

<210> 16233
<211> 19
<212> RNA
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<220>
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<400> 16233
gagccccugc gggcggggg 19

<210> 16234
<211> 20
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<220>
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<400> 16234
ugagccccug cgggcggggg 20

<210> 16235
<211> 21
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<220>
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<400> 16235
cugagccccu gcgggcgggg g 21

<210> 16236
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
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<400> 16236
gcugagcccc ugcgggcggg gg 22

<210> 16237
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
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<400> 16237
agcugagccc cugcgggcgg ggg 23

<210> 16238
<211> 24
<212> RNA
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<220>
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<400> 16238
cagcugagcc ccugcgggcg gggg 24

<210> 16239
<211> 18
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<220>
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<400> 16239
ccugggugag gggcuggg 18

<210> 16240
<211> 19
<212> RNA
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<220>
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<400> 16240
gccuggguga ggggcuggg 19

<210> 16241
<211> 20
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<220>
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<400> 16241
ggccugggug aggggcuggg 20

<210> 16242
<211> 21
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<220>
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<400> 16242
uggccugggu gaggggcugg g 21

<210> 16243
<211> 22
<212> RNA
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<220>
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<400> 16243
cuggccuggg ugaggggcug gg 22

<210> 16244
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<400> 16245
ggcuggccug ggugaggggc uggg 24

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<400> 16246
acuggccggc uggccugg 18

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<400> 16247
aacuggccgg cuggccugg 19

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<220>
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<400> 16248
gaacuggccg gcuggccugg 20

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ggaacuggcc ggcuggccug g 21

<210> 16250
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<400> 16250
uggaacuggc cggcuggccu gg 22

<210> 16251
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<400> 16251
uuggaacugg ccggcuggcc ugg 23

<210> 16252
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<400> 16252
uuuggaacug gccggcuggc cugg 24

<210> 16253
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<400> 16253
uucugcccuu cucucugg 18

<210> 16254
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<400> 16254
cuucugcccu ucucucugg 19

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<400> 16255
acuucugccc uucucucugg 20

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cacuucugcc cuucucucug g 21

<210> 16257
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<400> 16257
gcacuucugc ccuucucucu gg 22

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<400> 16258
ggcacuucug cccuucucuc ugg 23

<210> 16259
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<400> 16259
gggcacuucu gcccuucucu cugg 24

<210> 16260
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<220>
<223> Synthetic oligonucleotide: PDCD1-4108

<400> 16260
auccucaggc cucagugg 18

<210> 16261
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<220>
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<400> 16261
cauccucagg ccucagugg 19

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<220>
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<400> 16262
ccauccucag gccucagugg 20

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<400> 16263
uccauccuca ggccucagug g 21

<210> 16264
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<220>
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<400> 16264
guccauccuc aggccucagu gg 22

<210> 16265
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<210> 16266
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<220>
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<400> 16266
guguccaucc ucaggccuca gugg 24

<210> 16267
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<220>
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<400> 16267
uggcuccuau ugucccug 18

<210> 16268
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<220>
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<400> 16268
cuggcuccua uuguccccug 19

<210> 16269
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<220>
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<400> 16269
ccuggcuccu auugucccug 20

<210> 16270
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<220>
<223> Synthetic oligonucleotide: PDCD1-4116

<400> 16270
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<220>
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<400> 16271
cgccuggcuc cuauugucccc ug 22

<210> 16272
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<210> 16273
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<400> 16273
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<210> 16274
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<400> 16274
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<210> 16275
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<220>
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<400> 16275
uggccggcug gccugggug 19

<210> 16276
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<220>
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<400> 16276
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<400> 16277
acuggccggc uggccugggu g 21

<210> 16278
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<220>
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<400> 16278
aacuggccgg cuggccuggg ug 22

<210> 16279
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<400> 16279
gaacuggccg gcuggccugg gug 23

<210> 16280
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<220>
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<400> 16280
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<400> 16281
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<220>
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<220>
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<400> 16283
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<210> 16284
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<220>
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<400> 16284
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<210> 16285
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<220>
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<400> 16285
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<210> 16286
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<220>
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<400> 16286
ggcugagggg uccuccuucu uug 23

<210> 16287
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<220>
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<400> 16287
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<400> 16288
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<220>
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<400> 16289
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<210> 16291
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<400> 16291
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<210> 16292
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<400> 16292
caggccucag uggcugggca cu 22

<210> 16293
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<400> 16293
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<210> 16294
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<400> 16294
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<210> 16295
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<220>
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<400> 16295
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<220>
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<400> 16296
ggccgucagc ugagccccu 19

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<220>
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<400> 16297
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<220>
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<400> 16299
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<400> 16300
cgagggccgu cagcugagcc ccu 23

<210> 16301
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<220>
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<400> 16301
ccgagggccg ucagcugagc cccu 24

<210> 16302
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<220>
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<400> 16302
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<220>
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<400> 16303
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<210> 16304
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<400> 16304
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<400> 16305
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<210> 16306
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<400> 16306
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<210> 16307
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<220>
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<400> 16307
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<210> 16308
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<220>
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<400> 16308
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<210> 16309
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<400> 16309
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<400> 16310
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<210> 16311
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<400> 16311
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<210> 16312
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<400> 16312
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<210> 16313
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<400> 16313
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<210> 16314
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<220>
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<400> 16314
ccacagagaa cacaggcacg gcu 23

<210> 16315
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<220>
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<400> 16315
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<210> 16316
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<220>
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<400> 16316
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<210> 16317
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<220>
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<400> 16317
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<210> 16318
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<220>
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<400> 16318
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<210> 16319
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<220>
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<400> 16319
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<210> 16320
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<220>
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<400> 16320
gggacacagg gcacgggggg cu 22

<210> 16321
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<220>
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<400> 16321
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<210> 16322
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<220>
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<400> 16322
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<210> 16323
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<220>
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<400> 16323
gaggggcugg ggugggcu 18

<210> 16324
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<220>
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<400> 16324
ugaggggcug ggggugggcu 19

<210> 16325
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<220>
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<400> 16325
gugaggggcu gggggugggcu 20

<210> 16326
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<220>
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<400> 16326
ggugaggggc ugggggugggc u 21

<210> 16327
<211> 22
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<220>
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<400> 16327
gggugagggg cuggggguggg cu 22

<210> 16328
<211> 23
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<220>
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<400> 16328
ugggugaggg gcuggggugg gcu 23

<210> 16329
<211> 24
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<220>
<223> Synthetic oligonucleotide: PDCD1-4167

<400> 16329
cugggugagg ggcuggggug ggcu 24

<210> 16330
<211> 18
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<220>
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<400> 16330
uggcauacuc cgucugcu 18

<210> 16331
<211> 19
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<213> Artificial Sequence

<220>
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<400> 16331
guggcauacu ccgucugcu 19

<210> 16332
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-861

<400> 16332
gguggcauac uccgucugcu 20

<210> 16333
<211> 21
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<220>
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<400> 16333
ugguggcaua cuccgucugc u 21

<210> 16334
<211> 22
<212> RNA
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<220>
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<400> 16334
augguggcau acuccgucug cu 22

<210> 16335
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4172

<400> 16335
aaugguggca uacuccgucu gcu 23

<210> 16336
<211> 24
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<220>
<223> Synthetic oligonucleotide: PDCD1-4173

<400> 16336
caaugguggc auacuccguc ugcu 24

<210> 16337
<211> 18
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<220>
<223> Synthetic oligonucleotide: PDCD1-4174

<400> 16337
gcacuucugc ccuucucu 18

<210> 16338
<211> 19
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<220>
<223> Synthetic oligonucleotide: PDCD1-4175

<400> 16338
ggcacuucug cccuucucu 19

<210> 16339
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-813

<400> 16339
gggcacuucu gcccuucucu 20

<210> 16340
<211> 21
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<220>
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<400> 16340
ugggcacuuc ugcccuucuc u 21

<210> 16341
<211> 22
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<220>
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<400> 16341
gugggcacuu cugcccuucu cu 22

<210> 16342
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4178

<400> 16342
ugugggcacu ucugcccuuc ucu 23

<210> 16343
<211> 24
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<220>
<223> Synthetic oligonucleotide: PDCD1-4179

<400> 16343
cugugggcac uucugcccuu cucu 24

<210> 16344
<211> 18
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<220>
<223> Synthetic oligonucleotide: PDCD1-4180

<400> 16344
cugagggguc cuccuucu 18

<210> 16345
<211> 19
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<220>
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<400> 16345
gcugaggggu ccuccuucu 19

<210> 16346
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<220>
<223> Synthetic oligonucleotide: PDCD1-845

<400> 16346
ggcugagggg uccuccuucu 20

<210> 16347
<211> 21
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<220>
<223> Synthetic oligonucleotide: PDCD1-4182

<400> 16347
cggcugaggg guccuccuuc u 21

<210> 16348
<211> 22
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-4183

<400> 16348
acggcugagg gguccuccuu cu 22

<210> 16349
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
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<400> 16349
cacggcugag ggguccuccu ucu 23

<210> 16350
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4185

<400> 16350
gcacggcuga gggguccucc uucu 24

<210> 16351
<211> 18
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<220>
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<400> 16351
cuggaagggc acaaaggu 18

<210> 16352
<211> 19
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<220>
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<400> 16352
ucuggaaggg cacaaaggu 19

<210> 16353
<211> 20
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<220>
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<400> 16353
cucuggaagg gcacaaaggu 20

<210> 16354
<211> 21
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<220>
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<400> 16354
ucucuggaag ggcacaaagg u 21

<210> 16355
<211> 22
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<220>
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<400> 16355
cucucuggaa gggcacaaag gu 22

<210> 16356
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4190

<400> 16356
ucucucugga agggcacaaa ggu 23

<210> 16357
<211> 24
<212> RNA
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<220>
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<400> 16357
uucucucugg aagggcacaa aggu 24

<210> 16358
<211> 18
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<220>
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<400> 16358
guggccaagg aagccggu 18

<210> 16359
<211> 19
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<220>
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<400> 16359
gguggccaag gaagccggu 19

<210> 16360
<211> 20
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<220>
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<400> 16360
ugguggccaa ggaagccggu 20

<210> 16361
<211> 21
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<220>
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<400> 16361
cugguggcca aggaagccgg u 21

<210> 16362
<211> 22
<212> RNA
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<220>
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<400> 16362
acugguggcc aaggaagccg gu 22

<210> 16363
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4196

<400> 16363
cacugguggc caaggaagcc ggu 23

<210> 16364
<211> 24
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gacaccaacc accagggu 18

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cacgacacca accaccaggg u 21

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ccacgacacc aaccaccagg gu 22

<210> 16370
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cccacgacac caaccaccag ggu 23

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gcccacgaca ccaaccacca gggu 24

<210> 16372
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ggcacaaagg ucaggggu 18

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gggcacaaag gucaggggu 19

<210> 16374
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agggcacaaa ggucaggggu 20

<210> 16375
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aagggcacaa aggucagggg u 21

<210> 16376
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<400> 16376
gaagggcaca aaggucaggg gu 22

<210> 16377
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<220>
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ggaagggcac aaaggucagg ggu 23

<210> 16378
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uggaagggca caaaggucag gggu 24

<210> 16379
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<220>
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uggccggcug gccugggu 18

<210> 16380
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<400> 16380
cuggccggcu ggccugggu 19

<210> 16381
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<220>
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<210> 16382
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<400> 16382
aacuggccgg cuggccuggg u 21

<210> 16383
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<220>
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gaacuggccg gcuggccugg gu 22

<210> 16384
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<400> 16384
ggaacuggcc ggcuggccug ggu 23

<210> 16385
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uggaacuggc cggcuggccu gggu 24

<210> 16386
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<400> 16386
acaccaacca ccaggguu 18

<210> 16387
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<220>
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<210> 16388
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<220>
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<210> 16389
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acgacaccaa ccaccagggu u 21

<210> 16390
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<220>
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<210> 16391
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ccacgacacc aaccaccagg guu 23

<210> 16392
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<220>
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cccacgacac caaccaccag gguu 24

<210> 16393
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<210> 16394
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<220>
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ugaggggucc uccuucuuu 19

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<400> 16395
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<210> 16396
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<220>
<223> Synthetic oligonucleotide: PDCD1-4224

<400> 16396
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<210> 16397
<211> 22
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<220>
<223> Synthetic oligonucleotide: PDCD1-4225

<400> 16397
ggcugagggg uccuccuucu uu 22

<210> 16398
<211> 23
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<220>
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<400> 16398
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<210> 16399
<211> 24
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<220>
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<400> 16399
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<210> 16400
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<220>
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<210> 16401
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<220>
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<400> 16401
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<210> 16402
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<220>
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<400> 16402
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<210> 16403
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<220>
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<210> 16404
<211> 22
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<220>
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<400> 16404
guguguuucu cugcagggac aa 22

<210> 16405
<211> 23
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<220>
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<400> 16405
aguguguuuc ucugcaggga caa 23

<210> 16406
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<220>
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<400> 16406
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<210> 16407
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<220>
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<400> 16407
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<210> 16408
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<220>
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<400> 16408
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<210> 16409
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<400> 16409
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<400> 16411
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<210> 16412
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<220>
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<210> 16413
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<400> 16413
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<210> 16414
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<220>
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<400> 16414
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<220>
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<400> 16415
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<220>
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<400> 16416
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<210> 16418
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<220>
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<400> 16418
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<210> 16419
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<220>
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<400> 16419
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<210> 16420
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<220>
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<400> 16420
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<210> 16421
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<220>
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<400> 16421
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<220>
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<400> 16422
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<210> 16423
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<220>
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<400> 16423
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<210> 16424
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<220>
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<400> 16424
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<210> 16425
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<220>
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<400> 16425
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<210> 16426
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<220>
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<400> 16426
gacucccucu cccuuucucc uca 23

<210> 16427
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<220>
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<400> 16427
ugacucccuc ucccuuucuc cuca 24

<210> 16428
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<220>
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<400> 16428
ucccuuucuc cucaaaga 18

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<220>
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<400> 16429
cucccuuucu ccucaaaga 19

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<210> 16431
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<210> 16432
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<220>
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<400> 16432
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<210> 16433
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<220>
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<400> 16433
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<210> 16434
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<220>
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<400> 16434
ucccucuccc uuucuccuca aaga 24

<210> 16435
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<220>
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<400> 16435
ccuuugugcc cuuccaga 18

<210> 16436
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<220>
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accuuugugc ccuuccaga 19

<210> 16437
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<210> 16438
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<220>
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<210> 16439
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<400> 16439
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<210> 16440
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<220>
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<400> 16440
ccugaccuuu gugcccuucc aga 23

<210> 16441
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<220>
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<400> 16441
cccugaccuu ugugcccuuc caga 24

<210> 16442
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<400> 16442
cuggauuucc aguggcga 18

<210> 16443
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<400> 16443
gcuggauuuc caguggcga 19

<210> 16444
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<220>
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<400> 16444
agcuggauuu ccaguggcga 20

<210> 16445
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<220>
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<400> 16445
gagcuggauu uccaguggcg a 21

<210> 16446
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<220>
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<400> 16446
ggagcuggau uuccaguggc ga 22

<210> 16447
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<220>
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<400> 16447
gggagcugga uuuccagugg cga 23

<210> 16448
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<220>
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<400> 16448
ggggagcugg auuuccagug gcga 24

<210> 16449
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<400> 16449
auugucuuuc cuagcgga 18

<210> 16450
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<220>
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<400> 16450
cauugucuuu ccuagcgga 19

<210> 16451
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<400> 16451
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<210> 16452
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<220>
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<400> 16452
accauugucu uuccuagcgg a 21

<210> 16453
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<220>
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<400> 16453
caccauuguc uuuccuagcg ga 22

<210> 16454
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<220>
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<400> 16454
ccaccauugu cuuuccuagc gga 23

<210> 16455
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<220>
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<400> 16455
gccaccauug ucuuuccuag cgga 24

<210> 16456
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<220>
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<400> 16456
uguguucucu guggacua 18

<210> 16457
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<220>
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<400> 16457
cuguguucuc uguggacua 19

<210> 16458
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<220>
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<400> 16458
ccuguguucu cuguggacua 20

<210> 16459
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<220>
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<400> 16459
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<210> 16460
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<220>
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<400> 16460
ugccuguguu cucuguggac ua 22

<210> 16461
<211> 23
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<220>
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<400> 16461
gugccugugu ucucugugga cua 23

<210> 16462
<211> 24
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<220>
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<400> 16462
cgugccugug uucucugugg acua 24

<210> 16463
<211> 18
<212> RNA
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<220>
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<400> 16463
ccaccauugu cuuuccua 18

<210> 16464
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<220>
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<400> 16464
gccaccauug ucuuuccua 19

<210> 16465
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<220>
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<400> 16465
ugccaccauu gucuuuccua 20

<210> 16466
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<220>
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<400> 16466
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<210> 16467
<211> 22
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<220>
<223> Synthetic oligonucleotide: PDCD1-4285

<400> 16467
uaugccacca uugucuuucc ua 22

<210> 16468
<211> 23
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<220>
<223> Synthetic oligonucleotide: PDCD1-4286

<400> 16468
guaugccacc auugucuuuc cua 23

<210> 16469
<211> 24
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<220>
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<400> 16469
aguaugccac cauugucuuu ccua 24

<210> 16470
<211> 18
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<220>
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<400> 16470
caguggcgag agaagacc 18

<210> 16471
<211> 19
<212> RNA
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<220>
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<400> 16471
ccaguggcga gagaagacc 19

<210> 16472
<211> 20
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<220>
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<400> 16472
uccaguggcg agagaagacc 20

<210> 16473
<211> 21
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<220>
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<400> 16473
uuccaguggc gagagaagac c 21

<210> 16474
<211> 22
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<220>
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<400> 16474
uuuccagugg cgagagaaga cc 22

<210> 16475
<211> 23
<212> RNA
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<220>
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<400> 16475
auuuccagug gcgagagaag acc 23

<210> 16476
<211> 24
<212> RNA
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<220>
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<400> 16476
gauuuccagu ggcgagagaa gacc 24

<210> 16477
<211> 18
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<220>
<223> Synthetic oligonucleotide: PDCD1-4294

<400> 16477
aguggcgaga gaagaccc 18

<210> 16478
<211> 19
<212> RNA
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<220>
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<400> 16478
caguggcgag agaagaccc 19

<210> 16479
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-289

<400> 16479
ccaguggcga gagaagaccc 20

<210> 16480
<211> 21
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<220>
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<400> 16480
uccaguggcg agagaagacc c 21

<210> 16481
<211> 22
<212> RNA
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<220>
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<400> 16481
uuccaguggc gagagaagac cc 22

<210> 16482
<211> 23
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<220>
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<400> 16482
uuuccagugg cgagagaaga ccc 23

<210> 16483
<211> 24
<212> RNA
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<220>
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<400> 16483
auuuccagug gcgagagaag accc 24

<210> 16484
<211> 18
<212> RNA

<213> Artificial Sequence

<220>
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<400> 16484
gggcucagcu gacggccc 18

<210> 16485
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aggggcucag cugacggccc 20

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caggggcuca gcugacggcc c 21

<210> 16488
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<400> 16488
gcaggggcuc agcugacggc cc 22

<210> 16489
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<220>
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<400> 16489
cgcaggggcu cagcugacgg ccc 23

<210> 16490
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<220>
<223> Synthetic oligonucleotide: PDCD1-4305

<400> 16490
ccgcaggggc ucagcugacg gccc 24

<210> 16491
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<220>
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<400> 16491
cccccgugcc cugugucc 18

<210> 16492
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<220>
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<400> 16492
ccccccgugc ccugugucc 19

<210> 16493
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<220>
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<400> 16493
gccccccgug cccugugucc 20

<210> 16494
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<220>
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agcccccccgu gcccuguguc c 21

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gagccccccg ugcccugugu cc 22

<210> 16496
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<220>
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<400> 16496
ggagcccccc gugcccugug ucc 23

<210> 16497
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<220>
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<400> 16497
cggagcccccc cgugcccugu gucc 24

<210> 16498
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<220>
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<400> 16498
accucauccc ccgcccgc 18

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<220>
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<400> 16499
caccucaucc cccgcccgc 19

<210> 16500
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<220>
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gcaccucauc ccccgcccgc 20

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<210> 16502
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<220>
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<400> 16502
gggcaccuca ucccccgccc gc 22

<210> 16503
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<220>
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<400> 16503
ugggcaccuc aucccccgcc cgc 23

<210> 16504
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<220>
<223> Synthetic oligonucleotide: PDCD1-4317

<400> 16504
augggcaccu caucccccgc ccgc 24

<210> 16505
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<220>
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<400> 16505
caucugcucc cgggccgc 18

<210> 16506
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<220>
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<400> 16506
ucaucugcuc ccgggccgc 19

<210> 16507
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<220>
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<400> 16507
gucaucugcu cccgggccgc 20

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<220>
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<400> 16508
cgucaucugc ucccgggccg c 21

<210> 16509
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<220>
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<400> 16509
ccgucaucug cucccgggcc gc 22

<210> 16510
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<220>
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gccgucaucu gcucccgggc cgc 23

<210> 16511
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<220>
<223> Synthetic oligonucleotide: PDCD1-4323

<400> 16511
ggccgucauc ugcucccggg ccgc 24

<210> 16512
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<220>
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<400> 16512
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<220>
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<400> 16513
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<210> 16514
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<220>
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<220>
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ggagugccca gccacugagg c 21

<210> 16516
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<220>
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<210> 16517
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<220>
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<400> 16517
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<210> 16518
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<400> 16518
cucggagugc ccagccacug aggc 24

<210> 16519
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<400> 16519
agcuggauuu ccaguggc 18

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<220>
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<400> 16520
gagcuggauu uccaguggc 19

<210> 16521
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<220>
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<400> 16521
ggagcuggau uuccaguggc 20

<210> 16522
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<220>
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<400> 16522
gggagcugga uuuccagugg c 21

<210> 16523
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<400> 16523
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<210> 16524
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<220>
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<400> 16524
uggggagcug gauuuccagu ggc 23

<210> 16525
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<220>
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<400> 16525
auggggagcu ggauuuccag uggc 24

<210> 16526
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<220>
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<400> 16526
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<400> 16527
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<210> 16528
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<220>
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<400> 16528
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<400> 16529
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<210> 16532
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<400> 16532
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<220>
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<220>
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<400> 16535
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<220>
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<220>
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<210> 16538
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<400> 16540
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<400> 16541
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<220>
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<400> 16542
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<220>
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<400> 16543
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<210> 16544
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<220>
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<400> 16544
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<210> 16545
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<220>
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<400> 16545
uccaaacccu ggugguuggu guc 23

<210> 16546
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<400> 16546
uuccaaaccc uggugguugg uguc 24

<210> 16547
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<400> 16547
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<400> 16548
ccugaccuuu gugcccuuc 19

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<220>
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<220>
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<210> 16551
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<220>
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<400> 16551
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<210> 16552
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<220>
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<400> 16552
aaccccugac cuuugugccc uuc 23

<210> 16553
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<220>
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<400> 16553
uaaccccuga ccuuugugcc cuuc 24

<210> 16554
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<220>
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<400> 16554
cucccuuucu ccucaaag 18

<210> 16555
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<220>
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<400> 16555
ucucccuuuc uccucaaag 19

<210> 16556
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<220>
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<400> 16556
cucucccuuu cuccucaaag 20

<210> 16557
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<220>
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<400> 16557
ccucucccuu ucuccucaaa g 21

<210> 16558
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<220>
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<400> 16558
cccucucccu uucuccucaa ag 22

<210> 16559
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<220>
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<400> 16559
ucccucuccc uuucuccuca aag 23

<210> 16560
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<220>
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<400> 16560
cucccucucc cuuucuccuc aaag 24

<210> 16561
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<220>
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<400> 16561
ccuuucuccu caaagaag 18

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<220>
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cccuuucucc ucaaagaag 19

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<220>
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ucccuuucuc cucaaagaag 20

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<400> 16564
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<220>
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<400> 16565
ucucccuuuc uccucaaaga ag 22

<210> 16566
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<220>
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<400> 16566
cucucccuuu cuccucaaag aag 23

<210> 16567
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<220>
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<400> 16567
ccucucccuu ucuccucaaa gaag 24

<210> 16568
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<220>
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<400> 16568
cccugugucc cugagcag 18

<210> 16569
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<220>
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<400> 16569
gcccuguguc ccugagcag 19

<210> 16570
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<220>
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<400> 16570
ugcccugugu cccugagcag 20

<210> 16571
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<220>
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<400> 16571
gugcccugug ucccugagca g 21

<210> 16572
<211> 22
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<220>
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<400> 16572
cgugcccugu gucccugagc ag 22

<210> 16573
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<212> RNA
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<220>
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<400> 16573
ccgugcccug ugucccugag cag 23

<210> 16574
<211> 24
<212> RNA
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<220>
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<400> 16574
cccgugcccu gugucccuga gcag 24

<210> 16575
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<220>
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<400> 16575
uugugcccuu ccagagag 18

<210> 16576
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<220>
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<400> 16576
uuugugcccu uccagagag 19

<210> 16577
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<220>
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<400> 16577
cuuugugccc uuccagagag 20

<210> 16578
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<220>
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<400> 16578
ccuuugugcc cuuccagaga g 21

<210> 16579
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<220>
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<400> 16579
accuuugugc ccuuccagag ag 22

<210> 16580
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<220>
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<400> 16580
gaccuuugug cccuuccaga gag 23

<210> 16581
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<220>
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<400> 16581
ugaccuuugu gcccuuccag agag 24

<210> 16582
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<220>
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<400> 16582
caccucaucc cccgcccg 18

<210> 16583
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<220>
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<400> 16583
gcaccucauc ccccgcccg 19

<210> 16584
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<220>
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<400> 16584
ggcaccucau cccccgcccg 20

<210> 16585
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<220>
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<400> 16585
gggcaccuca ucccccgccc g 21

<210> 16586
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<220>
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<400> 16586
ugggcaccuc auccccccgcc cg 22

<210> 16587
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<220>
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<400> 16587
augggcaccu caucccccgc ccg 23

<210> 16588
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<220>
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<400> 16588
aaugggcacc ucauccccccg cccg 24

<210> 16589
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<220>
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<400> 16589
agccacugag gccugagg 18

<210> 16590
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<220>
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<400> 16590
cagccacuga ggccugagg 19

<210> 16591
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<220>
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<400> 16591
ccagccacug aggccugagg 20

<210> 16592
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<220>
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<400> 16592
cccagccacu gaggccugag g 21

<210> 16593
<211> 22
<212> RNA
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<220>
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<400> 16593
gcccagccac ugaggccuga gg 22

<210> 16594
<211> 23
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<220>
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<400> 16594
ugcccagcca cugaggccug agg 23

<210> 16595
<211> 24
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<220>
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<400> 16595
gugcccagcc acugaggccu gagg 24

<210> 16596
<211> 18
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<220>
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<400> 16596
cccuuccaga gagaaggg 18

<210> 16597
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<220>
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<400> 16597
gcccuuccag agagaaggg 19

<210> 16598
<211> 20
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<220>
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<400> 16598
ugcccuucca gagagaaggg 20

<210> 16599
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<220>
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<400> 16599
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<210> 16600
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<220>
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<400> 16600
ugugcccuuc cagagagaag gg 22

<210> 16601
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<220>
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<400> 16601
uugugcccuu ccagagagaa ggg 23

<210> 16602
<211> 24
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<220>
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<400> 16602
uuugugcccu uccagagaga aggg 24

<210> 16603
<211> 18
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<220>
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<400> 16603
uguucucugu ggacuaug 18

<210> 16604
<211> 19
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<220>
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<400> 16604
guguucucug uggacuaug 19

<210> 16605
<211> 20
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<220>
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<400> 16605
uguguucucu guggacuaug 20

<210> 16606
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<400> 16616
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<210> 16638
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<210> 16639
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cuaccuaaga accaucc 17

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accgcccaga cgacuggcca 20

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uguagcaccg cccagacgac 20

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ggaaggcccc uccagacccc 20

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cuacaacugg gcuggcggcc 20

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<210> 16699
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<210> 16701
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<210> 16703
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<210> 16704
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<210> 16705
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<220>
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<210> 16708
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<220>
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<210> 16709
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<220>
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<210> 16710
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cccagaggcu ccgacagaau 20

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<220>
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gucugggcgg ugcuacaacu 20

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<210> 16713
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<220>
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<210> 16714
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<220>
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<210> 16718
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<220>
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<210> 16722
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<400> 16722
gagacacaga ggaggaa 17

<210> 16723
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<220>
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<400> 16723
ggcggaggug agcggaa 17

<210> 16724
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<220>
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cagggacuga gagugaa 17

<210> 16725
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<220>
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ucccagguca gguugaa 17

<210> 16726
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cacacagcuc aggguaa 17

<210> 16727
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agagagagac agagaca 17

<210> 16728
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<210> 16814
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<220>
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<210> 16832
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<400> 16832
aggugggugg cccccuc 17

<210> 16833
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<210> 16834
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<210> 16835
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<220>
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<210> 16836
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<220>
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<400> 16836
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<210> 16837
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<210> 16838
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<210> 16839
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<210> 16840
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<220>
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<400> 16840
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<210> 16841
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<210> 16844
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<220>
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<210> 16847
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<210> 16848
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<210> 16849
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<400> 16849
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<210> 16850
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<210> 16851
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<210> 16852
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<210> 16940
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gaaggggccc ugagcug 17

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<210> 16958
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<220>
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<210> 16960
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<210> 16961
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<220>
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<400> 16961
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<210> 16962
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<210> 16963
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<210> 16964
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<210> 16966
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<210> 16967
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<210> 16968
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<210> 16969
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<400> 16969
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<210> 16970
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<220>
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<210> 16974
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<210> 16975
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<210> 16976
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cuccuggguu ccucucu 17

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gcccuggcca gucgucu 17

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uuccuccaca uccacgu 17

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cccacgcccu accccgu 17

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<400> 16983
cccacggggu agggcgu 17

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augguucuua gguaggu 17

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<210> 16992
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<210> 16994
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<210> 16996
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cuggccaggg cgccugu 17

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<210> 17000
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<210> 17002
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<210> 17003
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<210> 17004
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<210> 17005
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<220>
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<210> 17006
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gcagagacac agaggaggaa 20

<210> 17007
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ugccagggac ugagagugaa 20

<210> 17008
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<210> 17009
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agccacacag cucaggguaa 20

<210> 17010
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<220>
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<210> 17011
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<220>
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cugagcuggg gagaccccca 20

<210> 17012
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<220>
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gcagggaggc ccggccccca 20

<210> 17013
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<220>
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<400> 17013
ggccuggccc uggcagccca 20

<210> 17014
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<220>
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ggucaggugu cccagagcca 20

<210> 17015
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<220>
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<210> 17017
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<220>
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<400> 17017
caaagagggg acuugggcca 20

<210> 17018
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<220>
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<400> 17018
cagcaccccc cgaccugcca 20

<210> 17019
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<220>
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<400> 17019
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<210> 17020
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<220>
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<220>
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<210> 17022
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<400> 17022
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<210> 17023
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<210> 17024
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<210> 17025
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<210> 17026
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<210> 17028
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<220>
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<210> 17029
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<220>
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<210> 17030
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<210> 17031
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<210> 17034
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<210> 17035
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<220>
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<210> 17036
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gaggcagugc ugggggagga 20

<210> 17038
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<220>
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<210> 17039
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<220>
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<210> 17042
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<220>
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<210> 17045
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<210> 17046
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cccgaccugc cagggacuga 20

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agguuccugg gcugcaguga 20

<210> 17048
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<220>
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ggggcagcuc gggcgggaua 20

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aagccacaca gcucagggua 20

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<220>
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ggggagaccc ccacggggua 20

<210> 17051
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<220>
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ugagcugggg agacccccac 20

<210> 17052
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<400> 17052
uccaggcaug cagaucccac 20

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<220>
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<400> 17053
ggguagggcg ugggggccac 20

<210> 17054
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<220>
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agggagagag agacagagac 20

<210> 17055
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gagaagggcc ugcccccacc 20

<210> 17057
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acccucccuu caaccugacc 20

<210> 17058
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uggggcccag agaggaaccc 20

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accccucgcu ccgggacccc 20

<210> 17060
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<220>
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ggcagggagg cccggccccc 20

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<400> 17061
cugggcccca acuccucccc 20

<210> 17062
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gggggccacc caccuucccc 20

<210> 17063
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<220>
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<400> 17063
gggccuggcc cuggcagccc 20

<210> 17064
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<220>
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cccaccccuc acugcagccc 20

<210> 17065
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<220>
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<400> 17065
ugcagauccc acaggcgccc 20

<210> 17066
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<220>
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ugcugaggcg ggccuggccc 20

<210> 17067
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<220>
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gacagagguc cugccugccc 20

<210> 17068
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<220>
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ccccaucccc cccaucuccc 20

<210> 17069
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<220>
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gaccuuccac ccucaguccc 20

<210> 17070
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<220>
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<400> 17070
gaccuuucac ucucaguccc 20

<210> 17071
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<220>
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agcggaaggg aaacuguccc 20

<210> 17072
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<400> 17072
cggucaggug ucccagagcc 20

<210> 17073
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<400> 17073
cuucccagg cagggaggcc 20

<210> 17074
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accccugggc ugccagggcc 20

<210> 17075
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<400> 17075
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<210> 17076
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<220>
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<400> 17076
cccccaucuc ccuggggcc 20

<210> 17077
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<210> 17078
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gccuguggga ucugcaugcc 20

<210> 17079
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acagcacccc ccgaccugcc 20

<210> 17080
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<210> 17081
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<220>
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<400> 17081
gggggccggg ccucccugcc 20

<210> 17082
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<220>
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<400> 17082
cugccccucc ugaggcugcc 20

<210> 17083
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<220>
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<400> 17083
uccgggaccc cugggcugcc 20

<210> 17084
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<220>
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<400> 17084
cggagccucu gggagccucc 20

<210> 17085
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<220>
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<400> 17085
cccuccagac cccucgcucc 20

<210> 17086
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<220>
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<400> 17086
cacucuggug gggcugcucc 20

<210> 17087
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<220>
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<400> 17087
ccaagucccc ucuuugcucc 20

<210> 17088
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<220>
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cccuggcagc ccaggggucc 20

<210> 17089
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<220>
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<400> 17089
ccccucuggg cucagguucc 20

<210> 17090
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gaccucuguc cccucucagc 20

<210> 17091
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cucaggguaa ggggcagagc 20

<210> 17092
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<212> RNA
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<220>
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<400> 17092
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<210> 17093
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<220>
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<400> 17093
gcagagcugg gggccaaggc 20

<210> 17094
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<220>
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<400> 17094
gccacccacc uuccccaggc 20

<210> 17095
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<212> RNA
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<220>
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<400> 17095
cucuuugcuc cugggcaggc 20

<210> 17096
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<213> Artificial Sequence

<220>
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<210> 17097
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<220>
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ucaggagggg cagcucgggc 20

<210> 17098
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<220>
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agggggcggg agcaaggggc 20

<210> 17099
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<220>
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gauguggagg aagagggggc 20

<210> 17100
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<210> 17101
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ugaggcugcc gggugggggc 20

<210> 17102
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gggcggugcu acaacugggc 20

<210> 17103
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<210> 17104
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<210> 17106
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<210> 17107
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<400> 17107
gcugccccuc cugaggcugc 20

<210> 17108
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gagagugaca gaggcagugc 20

<210> 17109
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<210> 17110
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ggaagguggg uggcccccuc 20

<210> 17111
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<220>
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ugcccccacc cggcagccuc 20

<210> 17112
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<220>
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<400> 17112
ugcccaaagc cacacagcuc 20

<210> 17113
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cguggggguc uccccagcuc 20

<210> 17114
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<220>
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<210> 17115
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<220>
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ucccuccaga ccccucgcuc 20

<210> 17116
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<220>
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ggguggcccc cucugggcuc 20

<210> 17117
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<220>
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<400> 17117
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<210> 17118
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<210> 17119
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<220>
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<210> 17120
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<220>
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<210> 17122
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<220>
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gguagguggg gucggcgguc 20

<210> 17123
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<220>
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gugucccaga gccagggguc 20

<210> 17124
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<220>
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<400> 17124
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<210> 17125
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<220>
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gaagaggggg cgggagcaag 20

<210> 17126
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<220>
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<210> 17127
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<220>
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<210> 17128
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<220>
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<400> 17128
gccacacagc ucaggguaag 20

<210> 17129
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<220>
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<400> 17129
agcagugagc agagacacag 20

<210> 17130
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<220>
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agacagagac agggagacag 20

<210> 17131
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<220>
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gaccggcuga gaggggacag 20

<210> 17132
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<212> RNA
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<220>
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<400> 17132
cacgugggcg agagugacag 20

<210> 17133
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<220>
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<400> 17133
gccuggcccu ggcagcccag 20

<210> 17134
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<220>
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<400> 17134
gcccaggaac cugagcccag 20

<210> 17135
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-3004

<400> 17135
ggcagccggg aggcucccag 20

<210> 17136
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<220>
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<400> 17136
gucagguguc ccagagccag 20

<210> 17137
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<220>
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<400> 17137
aaagagggga cuugggccag 20

<210> 17138
<211> 20
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<220>
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<210> 17139
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<220>
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<400> 17139
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<210> 17140
<211> 20
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<210> 17141
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<212> RNA
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<220>
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<400> 17141
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<210> 17142
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<220>
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<210> 17143
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<220>
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<210> 17144
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<210> 17145
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<210> 17146
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<210> 17147
<211> 20
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<220>
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<210> 17148
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<220>
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<400> 17148
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<210> 17149
<211> 20
<212> RNA
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<220>
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<400> 17149
aggcuccgac agaaugggag 20

<210> 17150
<211> 20
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<220>
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agccccaagg accggcugag 20

<210> 17151
<211> 20
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<220>
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<400> 17151
gguuccuggg cugcagugag 20

<210> 17152
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<220>
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acugcucagg cggaggugag 20

<210> 17153
<211> 20
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<220>
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<210> 17154
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<210> 17155
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<210> 17156
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<220>
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<210> 17157
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<220>
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<210> 17158
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<220>
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<400> 17158
gacccccacg ggguagggcg 20

<210> 17159
<211> 20
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<220>
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ccucaguccc uggcaggucg 20

<210> 17160
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<220>
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<400> 17160
ucucaguccc uggcaggucg 20

<210> 17161
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<400> 17161
cgccugagca guggagaagg 20

<210> 17162
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<220>
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<400> 17162
gccucccugc cuggggaagg 20

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<220>
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<210> 17164
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<220>
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<210> 17165
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<220>
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<210> 17166
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<220>
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<210> 17168
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<210> 17169
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<220>
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<400> 17169
ggggaggagg ggugaggagg 20

<210> 17170
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<220>
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<400> 17170
agaggcagug cuggggggagg 20

<210> 17171
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<220>
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<400> 17171
agacagagga gauggggagg 20

<210> 17172
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<220>
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<400> 17172
caggucgggg ggugcugagg 20

<210> 17173
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<220>
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<400> 17173
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<210> 17174
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<220>
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<400> 17174
caggaugguu cuuagguagg 20

<210> 17175
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<220>
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cuucuccacu gcucaggcgg 20

<210> 17176
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<220>
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<400> 17176
cucagucccu ggcaggucgg 20

<210> 17177
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<220>
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<210> 17178
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<220>
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<210> 17179
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<220>
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cccaccuucc ccaggcaggg 20

<210> 17180
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<220>
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<400> 17180
ggguaggacu ggggagaggg 20

<210> 17181
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<220>
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gaccugccag ggacugaggg 20

<210> 17182
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<220>
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<400> 17182
agaggcugug ggcagccggg 20

<210> 17183
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<220>
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ccccuccuga ggcugccggg 20

<210> 17184
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<220>
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<400> 17184
cucaggaggg gcagcucggg 20

<210> 17185
<211> 20
<212> RNA
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<220>
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<400> 17185
ucagucccug gcaggucggg 20

<210> 17186
<211> 20
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<220>
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<400> 17186
gaggggcgg gagcaagggg 20

<210> 17187
<211> 20
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<220>
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<400> 17187
gaggggacuu gggccagggg 20

<210> 17188
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<220>
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<400> 17188
uccugggcug cagugagggg 20

<210> 17189
<211> 20
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<220>
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<400> 17189
ggauguggag gaagaggggg 20

<210> 17190
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<220>
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<400> 17190
ggagaugggg gggaugggggg 20

<210> 17191
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<220>
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<400> 17191
gacagaggca gugcuggggg 20

<210> 17192
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<220>
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<400> 17192
gacuggggag aggguggggg 20

<210> 17193
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<220>
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<400> 17193
gggagacaga ggagaugggg 20

<210> 17194
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<220>
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<400> 17194
cggcccccag ggagaugggg 20

<210> 17195
<211> 20
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<220>
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<400> 17195
ccggccccca gggagauggg 20

<210> 17196
<211> 20
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<220>
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<400> 17196
gcccuggcca gucgucuggg 20

<210> 17197
<211> 20
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<220>
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<400> 17197
cccugccugg ggaagguggg 20

<210> 17198
<211> 20
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<220>
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<400> 17198
cccggccccc agggagaugg 20

<210> 17199
<211> 20
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<220>
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<400> 17199
cagggagaug gggggaugg 20

<210> 17200
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<220>
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caucccccccc aucucccugg 20

<210> 17201
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<220>
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<400> 17201
aggguaaggg gcagagcugg 20

<210> 17202
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<220>
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<400> 17202
cggugcuaca acugggcugg 20

<210> 17203
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<220>
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<400> 17203
agugacagag gcagugcugg 20

<210> 17204
<211> 20
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<220>
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<400> 17204
uggagaaggc ggcacucugg 20

<210> 17205
<211> 20
<212> RNA
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<220>
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<400> 17205
ucccagagcc aggggucugg 20

<210> 17206
<211> 20
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<220>
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<400> 17206
ucccggagcg aggggucugg 20

<210> 17207
<211> 20
<212> RNA
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<220>
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<400> 17207
ccccacgccc uaccccgugg 20

<210> 17208
<211> 20
<212> RNA
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<220>
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<400> 17208
ccccacgggg uagggcgugg 20

<210> 17209
<211> 20
<212> RNA
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<220>
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<400> 17209
uaggacuggg gagagggugg 20

<210> 17210
<211> 20
<212> RNA
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<220>
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<400> 17210
cuccugaggc ugccgggugg 20

<210> 17211
<211> 20
<212> RNA
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<220>
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<400> 17211
ucucgcccac guggaugugg 20

<210> 17212
<211> 20
<212> RNA
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<220>
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<400> 17212
acagggagac agaggagaug 20

<210> 17213
<211> 20
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<220>
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<400> 17213
gcccggcccc cagggagaug 20

<210> 17214
<211> 20
<212> RNA
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<220>
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<400> 17214
ccagggagau ggggggggaug 20

<210> 17215
<211> 20
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<213> Artificial Sequence

<220>
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<400> 17215
gugaggaggg gguaggacug 20

<210> 17216
<211> 20
<212> RNA
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<220>
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<400> 17216
ccccgaccug ccagggacug 20

<210> 17217
<211> 20
<212> RNA
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<220>
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<400> 17217
ccaucccccc caucucccug 20

<210> 17218
<211> 20
<212> RNA
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<220>
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<400> 17218
acgacuggcc agggcgccug 20

<210> 17219
<211> 20
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<220>
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<400> 17219
gggccgggcc ucccugccug 20

<210> 17220
<211> 20
<212> RNA
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<220>
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<400> 17220
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<210> 17221
<211> 20
<212> RNA
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<220>
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<400> 17221
caggguaagg ggcagagcug 20

<210> 17222
<211> 20
<212> RNA
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ugugucucug cucacugcug 20

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<210> 17232
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ggcccggccc ccagggagau 20

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<210> 17246
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<210> 17247
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agagugacag aggcagugcu 20

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<210> 17258
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<210> 17259
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<210> 17262
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<210> 17263
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<220>
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<210> 17265
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<210> 17267
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<210> 17274
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<220>
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<220>
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<210> 17303
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<210> 17304
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cagagggccc aggguca 17

<210> 17306
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caggguggg ugguuca 17

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<220>
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cagggccccg gggaaga 17

<210> 17308
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gucacagugu acacaga 17

<210> 17309
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<220>
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ggccagccgg gcacaga 17

<210> 17310
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ggcuggcugg gcacaga 17

<210> 17311
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<220>
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<400> 17311
cccggaucga ggagaga 17

<210> 17312
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<400> 17313
ucgaguuuuc cuaagga 17

<210> 17314
<211> 17
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<210> 17315
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<210> 17316
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<400> 17316
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<220>
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<400> 17317
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<210> 17318
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<400> 17318
agaaggucaa ggcugga 17

<210> 17319
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<220>
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<400> 17319
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<210> 17320
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<220>
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agcuuccacc uugugga 17

<210> 17321
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<220>
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ugccugcaac agccuga 17

<210> 17322
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<220>
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<400> 17322
caagguggaa gcuuuga 17

<210> 17323
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<220>
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ucacucgagu uuuccua 17

<210> 17324
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<400> 17324
acaguuguca uucagua 17

<210> 17325
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<400> 17325
uacagcgaau ggaaaac 17

<210> 17326
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<220>
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<400> 17326
acuguccuca cucgaac 17

<210> 17327
<211> 17
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<220>
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<400> 17327
ccacggaugg ucugaac 17

<210> 17328
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<220>
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<210> 17329
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<220>
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<400> 17329
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<210> 17330
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<220>
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<210> 17331
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<220>
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<400> 17331
gccugcaaca gccugac 17

<210> 17332
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<220>
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<400> 17332
cccagccagc cugcacc 17

<210> 17333
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<220>
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<400> 17333
ccugaaccac cccaccc 17

<210> 17334
<211> 17
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<213> Artificial Sequence

<220>
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<400> 17334
gggcacaauc cccaccc 17

<210> 17335
<211> 17
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<220>
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<400> 17335
aaucugggca gagaccc 17

<210> 17336
<211> 17
<212> RNA
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<220>
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ugggcugccc gugaccc 17

<210> 17337
<211> 17
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<220>
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cuggagggca gggcccc 17

<210> 17338
<211> 17
<212> RNA
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<220>
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<400> 17338
caggccuugg caucccc 17

<210> 17339
<211> 17
<212> RNA
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<220>
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<400> 17339
ccuugaccuu cuucccc 17

<210> 17340
<211> 17
<212> RNA
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<220>
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<400> 17340
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<210> 17341
<211> 17
<212> RNA
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<220>
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<400> 17341
gggcucgggg agagccc 17

<210> 17342
<211> 17
<212> RNA
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<220>
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<400> 17342
ggccgccagc caggccc 17

<210> 17343
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<220>
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<400> 17343
gcuggagggc agggccc 17

<210> 17344
<211> 17
<212> RNA
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<220>
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<400> 17344
guguacacag agggccc 17

<210> 17345
<211> 17
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<220>
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<400> 17345
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<210> 17346
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ggcacagagg gccagcc 17

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<210> 17381
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<210> 17387
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<210> 17388
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<210> 17397
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<210> 17398
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cuguagaaug acggguc 17

<210> 17399
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gccaagguuu gggguuc 17

<210> 17400
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<210> 17401
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<210> 17402
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<210> 17403
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<210> 17404
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<210> 17405
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<210> 17406
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<400> 17406
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<210> 17407
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<400> 17407
gcaccugccc ccagcag 17

<210> 17408
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<210> 17409
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<400> 17409
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<210> 17410
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<400> 17410
agggugggu gguucag 17

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<400> 17411
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<210> 17413
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<210> 17414
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<400> 17415
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<400> 17417
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accccaaacc uuggccg 17

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<400> 17426
cacaaucccc acccagg 17

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cugggcagag acccagg 17

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<400> 17428
ggguggggug guucagg 17

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agguggaagc uuugagg 17

<210> 17430
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<400> 17430
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<210> 17431
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<400> 17431
cugcaacagc cugacgg 17

<210> 17432
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<400> 17432
cgggggggcu ggggcgg 17

<210> 17433
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<400> 17433
gcccacucgu gccaggg 17

<210> 17434
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<400> 17434
ugcaacagcc ugacggg 17

<210> 17435
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<400> 17435
gucaaggcug gaagggg 17

<210> 17436
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<400> 17436
gcaacagccu gacgggg 17

<210> 17437
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<400> 17437
cagaccaucc gugggggg 17

<210> 17438
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<400> 17438
ugacgggggg gcugggg 17

<210> 17439
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<220>
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<400> 17439
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<210> 17440
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<400> 17440
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<400> 17441
uggcacgagu gggcugg 17

<210> 17442
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<400> 17442
ugccugggcc uggcugg 17

<210> 17443
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<220>
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<400> 17443
guucagacca uccgugg 17

<210> 17444
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<220>
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<210> 17445
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<400> 17445
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<210> 17446
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<400> 17446
augggaugag ccccaug 17

<210> 17447
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<400> 17447
ggaaagaucu ggaacug 17

<210> 17448
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<400> 17448
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<210> 17449
<211> 17
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<400> 17449
cccaucccccc uucgcug 17

<210> 17450
<211> 17
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<220>
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<400> 17450
gguccaggag cgggcug 17

<210> 17451
<211> 17
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<400> 17451
gccugacggg ggggcug 17

<210> 17452
<211> 17
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<220>
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<400> 17452
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<210> 17453
<211> 17
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<220>
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<400> 17453
uuaggaaaac ucgagug 17

<210> 17454
<211> 17
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<220>
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<400> 17454
guguaccugu ucgagug 17

<210> 17455
<211> 17
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<220>
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<400> 17455
cccaaaccuu ggccgug 17

<210> 17456
<211> 17
<212> RNA
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<220>
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<400> 17456
uguucagacc auccgug 17

<210> 17457
<211> 17
<212> RNA
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<220>
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<400> 17457
ccacucgugc cagggug 17

<210> 17458
<211> 17
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<220>
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<400> 17458
aggaucccuc cugggug 17

<210> 17459
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<212> RNA
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<220>
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<400> 17459
ggcaggggcu ggcugug 17

<210> 17460
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<220>
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<400> 17460
acuguggcca uggugug 17

<210> 17461
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<220>
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<400> 17461
ucaaagcuuc caccuug 17

<210> 17462
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<220>
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<400> 17462
acaaggugga agcuuug 17

<210> 17463
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<220>
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<400> 17463
cccacggcca agguuug 17

<210> 17464
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<220>
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<400> 17464
aacuguccau ggcuaau 17

<210> 17465
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<400> 17465
caagguuagu cccacau 17

<210> 17466
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<400> 17466
cgaguuuucc uaaggau 17

<210> 17467
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<400> 17467
ccccagcgaa gggggau 17

<210> 17468
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<400> 17468
gccagaaccc caaaccu 17

<210> 17469
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ccauguggga cuaaccu 17

<210> 17470
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<220>
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<210> 17514
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ggcgggcaca aucccccaccc 20

<210> 17554
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<220>
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<210> 17560
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<210> 17562
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acaguguaca cagagggccc 20

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<210> 17568
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<220>
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<210> 17569
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<220>
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<210> 17572
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<210> 17573
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<220>
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<210> 17574
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<210> 17575
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<220>
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<210> 17577
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<220>
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<210> 17578
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<210> 17579
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<210> 17580
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<220>
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<210> 17581
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<210> 17582
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<210> 17583
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<400> 17583
aggccuuggc cucacucucc 20

<210> 17584
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aggacaguuc uucugucucc 20

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<210> 17586
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<210> 17587
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<210> 17588
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<210> 17589
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<210> 17590
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gcugggcaca gagggccagc 20

<210> 17591
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ggcacagagg guccaggagc 20

<210> 17592
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<220>
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<210> 17609
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<220>
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<210> 17618
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<210> 17619
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<210> 17624
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<210> 17625
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<210> 17626
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<220>
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<210> 17628
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<220>
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<400> 17628
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<210> 17629
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<220>
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<220>
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<210> 17645
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<220>
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<220>
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<210> 17685
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<210> 17688
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<220>
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<400> 17689
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<210> 17691
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<210> 17692
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<220>
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<220>
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<210> 17695
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<220>
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<210> 17696
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<220>
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<220>
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<210> 17698
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<210> 17699
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<210> 17700
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<220>
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<210> 17701
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<220>
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<210> 17702
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<220>
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auggacaguu gucauucagu 20

<210> 17703
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<210> 17704
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<220>
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<400> 17704
gaaccccaaa ccuuggccgu 20

<210> 17705
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<220>
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gcccuguuca gaccauccgu 20

<210> 17706
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<220>
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<210> 17707
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<210> 17709
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<210> 17710
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<220>
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<210> 17711
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<210> 17712
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<210> 17713
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<220>
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<210> 17714
<211> 21
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ucccagguca gguugaagg 19

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<220>
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<210> 17738
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<210> 17742
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<210> 17744
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<210> 17745
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<210> 17746
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<220>
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<210> 17747
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<220>
<223> Synthetic oligonucleotide: PDCD1-4502

<400> 17747
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<220>
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<210> 17751
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<400> 17751
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<210> 17752
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<210> 17753
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<210> 17754
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<210> 17755
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<210> 17756
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<210> 17757
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<220>
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<220>
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<220>
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<220>
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<210> 17768
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<210> 17769
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<210> 17775
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<220>
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<210> 17778
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<220>
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<210> 17779
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<220>
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<210> 17780
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<220>
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<400> 17780
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<210> 17781
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<400> 17781
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<210> 17782
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<220>
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<400> 17782
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<210> 17783
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<220>
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<400> 17783
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<210> 17784
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<220>
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<210> 17786
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<210> 17787
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<220>
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<210> 17788
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<220>
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<210> 17789
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<220>
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uguggcuuug ggcagcucga acuc 24

<210> 17790
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<220>
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<210> 17791
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<210> 17792
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<220>
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<210> 17793
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<213> Artificial Sequence

<220>
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<210> 17794
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<210> 17797
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<220>
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<210> 17798
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<220>
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<210> 17799
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<220>
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<400> 17799
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<210> 17800
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<220>
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<400> 17800
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<210> 17801
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<220>
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<400> 17801
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<210> 17802
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<220>
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<400> 17802
aggaugguuc uuagguagg 19

<210> 17803
<211> 20
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<220>
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<400> 17803
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<210> 17804
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<220>
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<400> 17804
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<210> 17805
<211> 22
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<220>
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<400> 17805
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<210> 17806
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<212> RNA
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<220>
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<400> 17806
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<210> 17807
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<220>
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<400> 17807
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<210> 17808
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<220>
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<400> 17808
cccggccccc agggagaugg g 21

<210> 17809
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<220>
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<400> 17809
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<210> 17810
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<220>
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<400> 17810
ggcccggccc ccagggagau ggg 23

<210> 17811
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<220>
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<400> 17811
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<210> 17812
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<220>
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<400> 17812
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<210> 17813
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<220>
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<400> 17813
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<210> 17814
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<220>
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<210> 17815
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<220>
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<400> 17815
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<210> 17816
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<220>
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<400> 17816
cucccagagg cuccgacaga au 22

<210> 17817
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<220>
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<400> 17817
gcucccagag gcuccgacag aau 23

<210> 17818
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<220>
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<400> 17818
ggcucccaga ggcuccgaca gaau 24

<210> 17819
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<220>
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<400> 17819
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<210> 17820
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<220>
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<400> 17820
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<210> 17821
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<220>
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<400> 17821
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<210> 17822
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<220>
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<400> 17822
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<210> 17823
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<220>
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<400> 17823
gcuggggggag gaggggugag ga 22

<210> 17824
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<220>
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<400> 17824
ugcuggggga ggagggguga gga 23

<210> 17825
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<220>
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<400> 17825
gugcuggggg aggaggggug agga 24

<210> 17826
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<220>
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<400> 17826
aggggguagg acugggga 18

<210> 17827
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<220>
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gaggggguag gacugggga 19

<210> 17828
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<220>
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<400> 17828
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<210> 17829
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<210> 17830
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<220>
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<400> 17830
gaggaggggg uaggacuggg ga 22

<210> 17831
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<220>
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<400> 17831
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<210> 17832
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<220>
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<400> 17832
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<210> 17833
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<220>
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<400> 17833
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<210> 17834
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<220>
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<210> 17849
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<210> 17853
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<210> 17854
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<210> 17855
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<210> 17856
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<400> 17856
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<210> 17859
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<210> 17862
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<210> 17863
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<400> 17863
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<220>
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<220>
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<220>
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<210> 17883
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<210> 17884
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<220>
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<210> 17885
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<220>
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<400> 17885
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<220>
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<400> 17886
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<220>
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<220>
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<400> 17894
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<210> 17895
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<210> 17897
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<210> 17898
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<220>
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<400> 17901
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<210> 17902
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<220>
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<400> 17902
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<400> 17904
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<400> 17905
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<210> 17906
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<400> 17906
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<210> 17909
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<400> 17911
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<210> 17914
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<400> 17914
cucaggaggg gcagcucggg 20

<210> 17915
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<220>
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<400> 17915
ccucaggagg ggcagcucgg g 21

<210> 17916
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<220>
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<400> 17916
gccucaggag gggcagcucg gg 22

<210> 17917
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<400> 17917
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<210> 17918
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<400> 17918
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<210> 17919
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<400> 17919
ggcccccagg gagauggg 18

<210> 17920
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<400> 17920
cggcccccag ggagauggg 19

<210> 17921
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<220>
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<400> 17921
ccggccccca gggagauggg 20

<210> 17922
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<220>
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<400> 17922
ugccugccca ggagcaaa 18

<210> 17923
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<220>
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<400> 17923
cugccugccc aggagcaaa 19

<210> 17924
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<220>
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<400> 17924
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<210> 17925
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<220>
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<400> 17925
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<210> 17926
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<220>
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<400> 17926
guccugccug cccaggagca aa 22

<210> 17927
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<220>
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<400> 17927
gguccugccu gcccaggagc aaa 23

<210> 17928
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<220>
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<400> 17928
agguccugcc ugcccaggag caaa 24

<210> 17929
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<220>
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<400> 17929
aggcggaggu gagcggaa 18

<210> 17930
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<220>
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<400> 17930
caggcggagg ugagcggaa 19

<210> 17931
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<220>
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<400> 17931
ucaggcggag gugagcggaa 20

<210> 17932
<211> 21
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<220>
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<400> 17932
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<210> 17933
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<220>
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<400> 17933
gcucaggcgg aggugagcgg aa 22

<210> 17934
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<220>
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<400> 17934
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<210> 17935
<211> 24
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<220>
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<400> 17935
cugcucaggc ggaggugagc ggaa 24

<210> 17936
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<220>
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<400> 17936
gucccagguc agguugaa 18

<210> 17937
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<212> RNA
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<220>
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<400> 17937
ugucccaggu cagguugaa 19

<210> 17938
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<220>
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<400> 17938
cugucccagg ucagguugaa 20

<210> 17939
<211> 21
<212> RNA
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<220>
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<400> 17939
acugucccag gucagguuga a 21

<210> 17940
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<220>
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<400> 17940
aacuguccca ggucagguug aa 22

<210> 17941
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<220>
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<400> 17941
aaacuguccc aggucagguu gaa 23

<210> 17942
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<220>
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<400> 17942
gaaacugucc caggucaggu ugaa 24

<210> 17943
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<220>
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<400> 17943
gagagagaga cagagaca 18

<210> 17944
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<220>
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<400> 17944
ggagagagag acagagaca 19

<210> 17945
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<220>
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<400> 17945
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<210> 17946
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<213> Artificial Sequence

<220>
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<400> 17946
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<210> 17947
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<220>
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<400> 17947
gagggagaga gagacagaga ca 22

<210> 17948
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<220>
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<400> 17948
ggagggagag agagacagag aca 23

<210> 17949
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<212> RNA
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<220>
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<400> 17949
gggagggaga gagagacaga gaca 24

<210> 17950
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<220>
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<400> 17950
gacagagaca gggagaca 18

<210> 17951
<211> 19
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<220>
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<400> 17951
agacagagac agggagaca 19

<210> 17952
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<220>
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<400> 17952
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<210> 17953
<211> 21
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<220>
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<210> 17954
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<220>
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<400> 17954
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<210> 17955
<211> 23
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<210> 17983
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<210> 17984
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<210> 17998
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<210> 18005
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<400> 18005
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<210> 18006
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<220>
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<400> 18006
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<210> 18007
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<210> 18011
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<400> 18011
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<210> 18012
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<210> 18013
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<400> 18013
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<210> 18018
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<210> 18019
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<210> 18020
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<220>
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<400> 18024
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<210> 18026
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<400> 18027
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<220>
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<220>
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<400> 18031
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<210> 18032
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<220>
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<400> 18032
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<210> 18033
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<400> 18033
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<210> 18034
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<400> 18034
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<210> 18035
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<220>
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<400> 18035
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<210> 18036
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<220>
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<210> 18037
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<220>
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<210> 18038
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<220>
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<400> 18038
cccgaccugc cagggacuga ga 22

<210> 18039
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<220>
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<400> 18039
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<210> 18040
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<220>
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<400> 18040
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<210> 18041
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<220>
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<400> 18041
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<210> 18042
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<220>
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<400> 18042
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<210> 18043
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<220>
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<400> 18043
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<210> 18044
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<220>
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<220>
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<400> 18045
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<210> 18046
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<220>
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<400> 18046
gcagccccaa ggaccggcug aga 23

<210> 18047
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<220>
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<400> 18047
cgcagcccca aggaccggcu gaga 24

<210> 18048
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<220>
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<400> 18048
ggugaggagg ggguagga 18

<210> 18049
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<220>
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<400> 18049
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<220>
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<400> 18050
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<210> 18051
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<220>
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<210> 18052
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<220>
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<400> 18052
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<210> 18053
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<220>
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<400> 18053
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<210> 18054
<211> 24
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<220>
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<400> 18054
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<210> 18055
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<220>
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<400> 18055
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<210> 18056
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<220>
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<400> 18056
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<210> 18057
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<220>
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<400> 18057
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<210> 18058
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<220>
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<400> 18058
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<210> 18059
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<220>
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<400> 18059
ugcucaggcg gaggugagcg ga 22

<210> 18060
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<220>
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<400> 18060
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<210> 18061
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<220>
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<400> 18061
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<210> 18062
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<220>
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<400> 18062
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<210> 18063
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<220>
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<400> 18063
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<210> 18064
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<220>
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<400> 18064
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<210> 18065
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<213> Artificial Sequence

<220>
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<210> 18066
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<220>
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<400> 18066
gcacccccg accugccagg ga 22

<210> 18067
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<220>
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<400> 18067
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<210> 18068
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<220>
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<400> 18068
cagcacccc cgaccugcca ggga 24

<210> 18069
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<220>
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<400> 18069
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<210> 18070
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<220>
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<400> 18070
ggagagggug ggggaggga 19

<210> 18071
<211> 20
<212> RNA
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<220>
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<400> 18071
gggagagggu gggggaggga 20

<210> 18072
<211> 21
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<220>
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<400> 18072
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<210> 18073
<211> 22
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<220>
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<400> 18073
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<210> 18074
<211> 23
<212> RNA
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<220>
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<400> 18074
cuggggagag ggugggggag gga 23

<210> 18075
<211> 24
<212> RNA
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<220>
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<400> 18075
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<400> 18077
aggaccggcu gagagggga 19

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<210> 18079
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<210> 18080
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<400> 18081
cccaaggacc ggcugagagg gga 23

<210> 18082
<211> 24
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<220>
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ccccaaggac cggcugagag ggga 24

<210> 18083
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<220>
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<400> 18083
uggggagagg gugggggga 18

<210> 18084
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<220>
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<400> 18084
cuggggagag ggugggggga 19

<210> 18085
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<220>
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<400> 18085
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<210> 18086
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<220>
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gacuggggag aggguggggg a 21

<210> 18087
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<220>
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<400> 18087
ggacugggga gaggguggggg ga 22

<210> 18088
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<220>
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<400> 18088
aggacugggg agaggguggg gga 23

<210> 18089
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<220>
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<400> 18089
uaggacuggg gagagggugg ggga 24

<210> 18090
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<220>
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<400> 18090
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<210> 18091
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<220>
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<400> 18091
agccccaagg accggcuga 19

<210> 18092
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<220>
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<400> 18092
cagccccaag gaccggcuga 20

<210> 18093
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<220>
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gcagccccaa ggaccggcug a 21

<210> 18094
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<220>
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<400> 18094
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<210> 18095
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<220>
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<400> 18095
acgcagcccc aaggaccggc uga 23

<210> 18096
<211> 24
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<220>
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<400> 18096
cacgcagccc caaggaccgg cuga 24

<210> 18097
<211> 18
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<220>
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<400> 18097
ccacgugggc gagaguga 18

<210> 18098
<211> 19
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<220>
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<400> 18098
uccacguggg cgagaguga 19

<210> 18099
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<220>
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<400> 18099
auccacgugg gcgagaguga 20

<210> 18100
<211> 21
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<220>
<223> Synthetic oligonucleotide: PDCD1-4785

<400> 18100
cauccacgug ggcgagagug a 21

<210> 18101
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4786

<400> 18101
acauccacgu gggcgagagu ga 22

<210> 18102
<211> 23
<212> RNA
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<220>
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<400> 18102
cacauccacg ugggcgagag uga 23

<210> 18103
<211> 24
<212> RNA
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<220>
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<400> 18103
ccacauccac gugggcgaga guga 24

<210> 18104
<211> 18
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<220>
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<400> 18104
cugcucaggc ggagguga 18

<210> 18105
<211> 19
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<220>
<223> Synthetic oligonucleotide: PDCD1-4790

<400> 18105
acugcucagg cggagguga 19

<210> 18106
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-1022

<400> 18106
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<210> 18107
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4791

<400> 18107
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<210> 18108
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4792

<400> 18108
uccacugcuc aggcggaggu ga 22

<210> 18109
<211> 23
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<220>
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<400> 18109
cuccacugcu caggcggagg uga 23

<210> 18110
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4794

<400> 18110
ucuccacugc ucaggcggag guga 24

<210> 18111
<211> 18
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<220>
<223> Synthetic oligonucleotide: PDCD1-4795

<400> 18111
ugucccaggu cagguuga 18

<210> 18112
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4796

<400> 18112
cugucccagg ucagguuga 19

<210> 18113
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2236

<400> 18113
acugucccag gucagguuga 20

<210> 18114
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4797

<400> 18114
aacuguccca ggucagguug a 21

<210> 18115
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-4798

<400> 18115
aaacuguccc aggucagguu ga 22

<210> 18116
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-4799

<400> 18116
gaaacugucc caggucaggu uga 23

<210> 18117
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4800

<400> 18117
ggaaacuguc ccaggucagg uuga 24

<210> 18118
<211> 18
<212> RNA
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<220>
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<400> 18118
gccacacagc ucagggua 18

<210> 18119
<211> 19
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<220>
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<400> 18119
agccacacag cucagggua 19

<210> 18120
<211> 20
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<220>
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<400> 18120
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<210> 18121
<211> 21
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<220>
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<400> 18121
aaagccacac agcucagggu a 21

<210> 18122
<211> 22
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<220>
<223> Synthetic oligonucleotide: PDCD1-4804

<400> 18122
caaagccaca cagcucaggg ua 22

<210> 18123
<211> 23
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<220>
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<400> 18123
ccaaagccac acagcucagg gua 23

<210> 18124
<211> 24
<212> RNA
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<220>
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<400> 18124
cccaaagcca cacagcucag ggua 24

<210> 18125
<211> 18
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<220>
<223> Synthetic oligonucleotide: PDCD1-4807

<400> 18125
cucuuccucc acauccac 18

<210> 18126
<211> 19
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<220>
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<400> 18126
ccucuuccuc cacauccac 19

<210> 18127
<211> 20
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<220>
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<400> 18127
cccucuuccu ccacauccac 20

<210> 18128
<211> 21
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<220>
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<400> 18128
ccccucuucc uccacaucca c 21

<210> 18129
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4810

<400> 18129
cccccucuuc cuccacaucc ac 22

<210> 18130
<211> 23
<212> RNA
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<220>
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<400> 18130
gcccccucuu ccuccacauc cac 23

<210> 18131
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4812

<400> 18131
cgcccccucu uccuccacau ccac 24

<210> 18132
<211> 18
<212> RNA
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<220>
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<400> 18132
ggagagagag acagagac 18

<210> 18133
<211> 19
<212> RNA

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<220>
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<400> 18133
gggagagaga gacagagac 19

<210> 18134
<211> 20
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<220>
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<400> 18134
agggagagag agacagagac 20

<210> 18135
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<220>
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<400> 18135
gagggagaga gagacagaga c 21

<210> 18136
<211> 22
<212> RNA
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<220>
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<400> 18136
ggagggagag agagacagag ac 22

<210> 18137
<211> 23
<212> RNA
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<220>
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<400> 18137
gggagggaga gagagacaga gac 23

<210> 18138
<211> 24
<212> RNA
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<220>
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<400> 18138
ggggagggag agagagacag agac 24

<210> 18139
<211> 18
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<220>
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<400> 18139
gugaggaggg gguaggac 18

<210> 18140
<211> 19
<212> RNA
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<220>
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<400> 18140
ggugaggagg ggguaggac 19

<210> 18141
<211> 20
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<220>
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<400> 18141
gggugaggag gggguaggac 20

<210> 18142
<211> 21
<212> RNA
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<220>
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<400> 18142
ggggugagga ggggguagga c 21

<210> 18143
<211> 22
<212> RNA
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<220>
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<400> 18143
aggggugagg aggggguagg ac 22

<210> 18144
<211> 23
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<220>
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<400> 18144
gaggggugag gaggggguag gac 23

<210> 18145
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4824

<400> 18145
ggagggguga ggagggggua ggac 24

<210> 18146
<211> 18
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<220>
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<400> 18146
caggagcaaa gaggggac 18

<210> 18147
<211> 19
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<220>
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<400> 18147
ccaggagcaa agaggggac 19

<210> 18148
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<220>
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<400> 18148
cccaggagca aagaggggac 20

<210> 18149
<211> 21
<212> RNA
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<220>
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<400> 18149
gcccaggagc aaagagggga c 21

<210> 18150
<211> 22
<212> RNA

<213> Artificial Sequence

<220>
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<400> 18150
ugcccaggag caaagagggg ac 22

<210> 18151
<211> 23
<212> RNA
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<220>
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<400> 18151
cugcccagga gcaaagaggg gac 23

<210> 18152
<211> 24
<212> RNA
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<220>
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<400> 18152
ccugcccagg agcaaagagg ggac 24

<210> 18153
<211> 18
<212> RNA
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<220>
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<400> 18153
ggggcccaga gaggaacc 18

<210> 18154
<211> 19
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<220>
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<400> 18154
uggggcccag agaggaacc 19

<210> 18155
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<220>
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<400> 18155
uuggggccca gagaggaacc 20

<210> 18156
<211> 21
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<220>
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<400> 18156
guuggggccc agagaggaac c 21

<210> 18157
<211> 22
<212> RNA
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<220>
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<400> 18157
aguuggggcc cagagaggaa cc 22

<210> 18158
<211> 23
<212> RNA
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<220>
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<400> 18158
gaguuggggc ccagagagga acc 23

<210> 18159
<211> 24
<212> RNA
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<220>
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<400> 18159
ggaguugggg cccagagagg aacc 24

<210> 18160
<211> 18
<212> RNA
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<220>
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<400> 18160
ccccucgcuc cgggaccc 18

<210> 18161
<211> 19
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<220>
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<400> 18161
accccucgcu ccgggaccc 19

<210> 18162
<211> 20
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<220>
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<400> 18162
gaccccucgc uccgggaccc 20

<210> 18163
<211> 21
<212> RNA
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<220>
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<400> 18163
agaccccucg cuccgggacc c 21

<210> 18164
<211> 22
<212> RNA
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<220>
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<400> 18164
cagaccccuc gcuccgggac cc 22

<210> 18165
<211> 23
<212> RNA
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<220>
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<400> 18165
ccagaccccu cgcuccggga ccc 23

<210> 18166
<211> 24
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<220>
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<400> 18166
uccagacccc ucgcuccggg accc 24

<210> 18167
<211> 18
<212> RNA

<213> Artificial Sequence

<220>
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<400> 18167
gcccccacgc ccuacccc 18

<210> 18168
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<220>
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<400> 18168
ggcccccacg cccuacccc 19

<210> 18169
<211> 20
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<220>
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<400> 18169
uggcccccac gcccuacccc 20

<210> 18170
<211> 21
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<220>
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<400> 18170
guggccccca cgcccuaccc c 21

<210> 18171
<211> 22
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<220>
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<400> 18171
cguggccccc acgcccuacc cc 22

<210> 18172
<211> 23
<212> RNA
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<220>
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<400> 18172
ccguggcccc cacgcccuac ccc 23

<210> 18173
<211> 24
<212> RNA
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<220>
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<400> 18173
cccguggccc ccacgcccua cccc 24

<210> 18174
<211> 18
<212> RNA
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<220>
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<400> 18174
cagagguccu gccugccc 18

<210> 18175
<211> 19
<212> RNA
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<220>
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<400> 18175
acagaggucc ugccugccc 19

<210> 18176
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<220>
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<400> 18176
gacagagguc cugccugccc 20

<210> 18177
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<212> RNA
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<220>
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<400> 18177
ggacagaggu ccugccugcc c 21

<210> 18178
<211> 22
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<220>
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<400> 18178
gggacagagg uccugccugc cc 22

<210> 18179
<211> 23
<212> RNA
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<220>
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<400> 18179
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<210> 18180
<211> 24
<212> RNA
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<220>
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<400> 18180
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<210> 18181
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<220>
<223> Synthetic oligonucleotide: PDCD1-4855

<400> 18181
ccaucccccc caucuccc 18

<210> 18182
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<212> RNA
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<220>
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<400> 18182
cccaucccccc ccaucuccc 19

<210> 18183
<211> 20
<212> RNA
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<220>
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<400> 18183
ccccaucccc cccaucuccc 20

<210> 18184
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<212> RNA

<213> Artificial Sequence

<220>
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<400> 18184
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<210> 18185
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<220>
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<400> 18185
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<210> 18186
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<220>
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<400> 18186
cucccccauc ccccccaucu ccc 23

<210> 18187
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<220>
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<400> 18187
ccucccccau cccccccauc uccc 24

<210> 18188
<211> 18
<212> RNA
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<220>
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<400> 18188
aggggaggag uuggggcc 18

<210> 18189
<211> 19
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<220>
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<400> 18189
caggggagga guuggggcc 19

<210> 18190
<211> 20
<212> RNA
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<220>
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<400> 18190
ccaggggagg aguuggggcc 20

<210> 18191
<211> 21
<212> RNA
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<220>
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<400> 18191
gccaggggag gaguuggggc c 21

<210> 18192
<211> 22
<212> RNA
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<220>
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<400> 18192
ggccagggga ggaguugggg cc 22

<210> 18193
<211> 23
<212> RNA
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<220>
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<400> 18193
gggccagggg aggaguuggg gcc 23

<210> 18194
<211> 24
<212> RNA
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<220>
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<400> 18194
ugggccaggg gaggaguugg ggcc 24

<210> 18195
<211> 18
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<220>
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<400> 18195
aaagagggga cuugggcc 18

<210> 18196
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<220>
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<400> 18196
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<210> 18197
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<220>
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<400> 18197
gcaaagaggg gacuugggcc 20

<210> 18198
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<220>
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<400> 18198
agcaaagagg ggacuugggc c 21

<210> 18199
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<220>
<223> Synthetic oligonucleotide: PDCD1-4870

<400> 18199
gagcaaagag gggacuuggg cc 22

<210> 18200
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<220>
<223> Synthetic oligonucleotide: PDCD1-4871

<400> 18200
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<210> 18201
<211> 24
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<220>
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<400> 18201
aggagcaaag aggggacuug ggcc 24

<210> 18202
<211> 18
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<220>
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<400> 18202
cugugggauc ugcaugcc 18

<210> 18203
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<220>
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<400> 18203
ccugugggau cugcaugcc 19

<210> 18204
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<220>
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<400> 18204
gccuguggga ucugcaugcc 20

<210> 18205
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<220>
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<400> 18205
cgccuguggg aucugcaugc c 21

<210> 18206
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<220>
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<400> 18206
gcgccugugg gaucugcaug cc 22

<210> 18207
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<220>
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<400> 18207
ggcgccugug ggaucugcau gcc 23

<210> 18208
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<220>
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<400> 18208
gggcgccugu gggaucugca ugcc 24

<210> 18209
<211> 18
<212> RNA
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<220>
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<400> 18209
agcacccccc gaccugcc 18

<210> 18210
<211> 19
<212> RNA
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<220>
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<400> 18210
cagcaccccc cgaccugcc 19

<210> 18211
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2122

<400> 18211
acagcacccc ccgaccugcc 20

<210> 18212
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4875

<400> 18212
cacagcaccc cccgaccugc c 21

<210> 18213
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4876

<400> 18213
ccacagcacc ccccgaccug cc 22

<210> 18214
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4877

<400> 18214
gccacagcac cccccgaccu gcc 23

<210> 18215
<211> 24
<212> RNA
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<220>
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<400> 18215
ugccacagca ccccccgacc ugcc 24

<210> 18216
<211> 20
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<220>
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<400> 18216
ucagcacccc ccgaccugcc 20

<210> 18217
<211> 21
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<220>
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<400> 18217
cucagcaccc cccgaccugc c 21

<210> 18218
<211> 22
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<220>
<223> Synthetic oligonucleotide: PDCD1-4880

<400> 18218
ccucagcacc ccccgaccug cc 22

<210> 18219
<211> 23
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<220>
<223> Synthetic oligonucleotide: PDCD1-4881

<400> 18219
gccucagcac cccccgaccu gcc 23

<210> 18220
<211> 24
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<220>
<223> Synthetic oligonucleotide: PDCD1-4882

<400> 18220
cgccucagca ccccccgacc ugcc 24

<210> 18221
<211> 18
<212> RNA
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<220>
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<400> 18221
gggccgggcc ucccugcc 18

<210> 18222
<211> 19
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<220>
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<400> 18222
ggggccgggc cucccugcc 19

<210> 18223
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<220>
<223> Synthetic oligonucleotide: PDCD1-2300

<400> 18223
gggggccggg ccucccugcc 20

<210> 18224
<211> 21
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<220>
<223> Synthetic oligonucleotide: PDCD1-4885

<400> 18224
uggggccgg gccucccugc c 21

<210> 18225
<211> 22
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<220>
<223> Synthetic oligonucleotide: PDCD1-4886

<400> 18225
cuggggccg ggccucccug cc 22

<210> 18226
<211> 23
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<220>
<223> Synthetic oligonucleotide: PDCD1-4887

<400> 18226
ccuggggcc gggccucccu gcc 23

<210> 18227
<211> 24
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<220>
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<400> 18227
cccuggggc cgggccuccc ugcc 24

<210> 18228
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4889

<400> 18228
acagaggucc ugccugcc 18

<210> 18229
<211> 19
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<220>
<223> Synthetic oligonucleotide: PDCD1-4890

<400> 18229
gacagagguc cugccugcc 19

<210> 18230
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-965

<400> 18230
ggacagaggu ccugccugcc 20

<210> 18231
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4891

<400> 18231
gggacagagg uccugccugc c 21

<210> 18232
<211> 22
<212> RNA
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<220>
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<400> 18232
ggggacagag guccugccug cc 22

<210> 18233
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4893

<400> 18233
aggggacaga gguccugccu gcc 23

<210> 18234
<211> 24
<212> RNA
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<220>
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<400> 18234
gaggggacag agguccugcc ugcc 24

<210> 18235
<211> 18
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<213> Artificial Sequence

<220>
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<400> 18235
cccaucccccc ccaucucc 18

<210> 18236
<211> 19
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<220>
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<400> 18236
ccccaucccc cccaucucc 19

<210> 18237
<211> 20
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<220>
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<400> 18237
cccccauccc ccccaucucc 20

<210> 18238
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<220>
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<400> 18238
ucccccaucc cccccaucuc c 21

<210> 18239
<211> 22
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<220>
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<400> 18239
cucccccauc ccccccaucu cc 22

<210> 18240
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<220>
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<400> 18240
ccucccccau ccccccccauc ucc 23

<210> 18241
<211> 24
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<220>
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<400> 18241
uccucccccа ucccccccau cucc 24

<210> 18242
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<220>
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<400> 18242
caggguaagg ggcagagc 18

<210> 18243
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<220>
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<400> 18243
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<210> 18244
<211> 20
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<220>
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<400> 18244
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<210> 18245
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<220>
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<400> 18245
gcucagggua aggggcagag c 21

<210> 18246
<211> 22
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<220>
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<400> 18246
agcucagggu aaggggcaga gc 22

<210> 18247
<211> 23
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<220>
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<400> 18247
cagcucaggg uaaggggcag agc 23

<210> 18248
<211> 24
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<220>
<223> Synthetic oligonucleotide: PDCD1-4906

<400> 18248
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<210> 18249
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<220>
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<400> 18249
ccucuuucca uaucccgc 18

<210> 18250
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<220>
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<400> 18250
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<210> 18251
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<220>
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<400> 18251
ggccucuuuc cauaucccgc 20

<210> 18252
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<213> Artificial Sequence

<220>
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<400> 18252
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<210> 18253
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<220>
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<400> 18253
guggccucuu uccauauccc gc 22

<210> 18254
<211> 23
<212> RNA
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<220>
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<400> 18254
uguggccucu uuccauaucc cgc 23

<210> 18255
<211> 24
<212> RNA
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<220>
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<400> 18255
cuguggccuc uuuccauauc ccgc 24

<210> 18256
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<212> RNA
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<400> 18256
caaagagggg acuugggc 18

<210> 18257
<211> 19
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<220>
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<400> 18257
gcaaagaggg gacuugggc 19

<210> 18258
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-972

<400> 18258
agcaaagagg ggacuugggc 20

<210> 18259
<211> 21
<212> RNA
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<220>
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<400> 18259
gagcaaagag gggacuuggg c 21

<210> 18260
<211> 22
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<220>
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<400> 18260
ggagcaaaga ggggacuugg gc 22

<210> 18261
<211> 23
<212> RNA
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<220>
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<400> 18261
aggagcaaag aggggacuug ggc 23

<210> 18262
<211> 24
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<220>
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<400> 18262
caggagcaaa gaggggacuu gggc 24

<210> 18263
<211> 18
<212> RNA
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<220>
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<400> 18263
accgcccaga cgacuggc 18

<210> 18264
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3333

<400> 18264
caccgcccag acgacuggc 19

<210> 18265
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-592

<400> 18265
gcaccgccca gacgacuggc 20

<210> 18266
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<220>
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<400> 18266
agcaccgccc agacgacugg c 21

<210> 18267
<211> 22
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<220>
<223> Synthetic oligonucleotide: PDCD1-3335

<400> 18267
uagcaccgcc cagacgacug gc 22

<210> 18268
<211> 23
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<220>
<223> Synthetic oligonucleotide: PDCD1-3336

<400> 18268
guagcaccgc ccagacgacu ggc 23

<210> 18269
<211> 24
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-3337

<400> 18269
uguagcaccg cccagacgac uggc 24

<210> 18270
<211> 18
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<220>
<223> Synthetic oligonucleotide: PDCD1-3338

<400> 18270
ccugugggau cugcaugc 18

<210> 18271
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<220>
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<400> 18271
gccuguggga ucugcaugc 19

<210> 18272
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<220>
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<400> 18272
cgccuguggg aucugcaugc 20

<210> 18273
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<220>
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<400> 18273
gcgccugugg gaucugcaug c 21

<210> 18274
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<220>
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<400> 18274
ggcgccugug ggaucugcau gc 22

<210> 18275
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<220>
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<400> 18275
gggcgccugu gggaucugca ugc 23

<210> 18276
<211> 24
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<220>
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<400> 18276
agggcgccug ugggaucugc augc 24

<210> 18277
<211> 18
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<220>
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<400> 18277
cagcaccccc cgaccugc 18

<210> 18278
<211> 19
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<220>
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<400> 18278
acagcacccc ccgaccugc 19

<210> 18279
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<220>
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<400> 18279
cacagcaccc cccgaccugc 20

<210> 18280
<211> 21
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<220>
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<400> 18280
ccacagcacc ccccgaccug c 21

<210> 18281
<211> 22
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<220>
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<400> 18281
gccacagcac cccccgaccu gc 22

<210> 18282
<211> 23
<212> RNA
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<220>
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<400> 18282
ugccacagca ccccccgacc ugc 23

<210> 18283
<211> 24
<212> RNA
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<220>
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<400> 18283
cugccacagc acccccccgac cugc 24

<210> 18284
<211> 19
<212> RNA
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<220>
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<400> 18284
ucagcacccc ccgaccugc 19

<210> 18285
<211> 20
<212> RNA
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<220>
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<400> 18285
cucagcaccc cccgaccugc 20

<210> 18286
<211> 21
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<213> Artificial Sequence

<220>
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<400> 18286
ccucagcacc ccccgaccug c 21

<210> 18287
<211> 22
<212> RNA
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<220>
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<400> 18287
gccucagcac cccccgaccu gc 22

<210> 18288
<211> 23
<212> RNA
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<220>
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<400> 18288
cgccucagca ccccccgacc ugc 23

<210> 18289
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-4929

<400> 18289
ccgccucagc acccccccgac cugc 24

<210> 18290
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
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<400> 18290
ggggccgggc cucccugc 18

<210> 18291
<211> 19
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<220>
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<400> 18291
gggggccggg ccucccugc 19

<210> 18292
<211> 20
<212> RNA
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<220>
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<400> 18292
uggggccgg gccucccugc 20

<210> 18293
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4932

<400> 18293
cuggggccg ggccucccug c 21

<210> 18294
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4933

<400> 18294
ccuggggcc gggccucccu gc 22

<210> 18295
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4934

<400> 18295
cccuggggc cgggccuccc ugc 23

<210> 18296
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4935

<400> 18296
ucccuggggg ccgggccucc cugc 24

<210> 18297
<211> 18
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<220>
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<400> 18297
ccgggacccc ugggcugc 18

<210> 18298
<211> 19
<212> RNA
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<220>
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<400> 18298
uccgggaccc cugggcugc 19

<210> 18299
<211> 20
<212> RNA
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<220>
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<400> 18299
cuccgggacc ccugggcugc 20

<210> 18300
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
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<400> 18300
gcuccgggac cccugggcug c 21

<210> 18301
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4939

<400> 18301
cgcuccggga ccccugggcu gc 22

<210> 18302
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4940

<400> 18302
ucgcuccggg accccugggc ugc 23

<210> 18303
<211> 24
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-4941

<400> 18303
cucgcuccgg gaccccuggg cugc 24

<210> 18304
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4942

<400> 18304
gagugacaga ggcagugc 18

<210> 18305
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4943

<400> 18305
agagugacag aggcagugc 19

<210> 18306
<211> 20
<212> RNA
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<220>
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<400> 18306
gagagugaca gaggcagugc 20

<210> 18307
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-4944

<400> 18307
cgagagugac agaggcagug c 21

<210> 18308
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-4945

<400> 18308
gcgagaguga cagaggcagu gc 22

<210> 18309
<211> 23
<212> RNA
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<220>
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<400> 18309
ggcgagagug acagaggcag ugc 23

<210> 18310
<211> 24
<212> RNA
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<220>
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<400> 18310
gggcgagagu gacagaggca gugc 24

<210> 18311
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-4948

<400> 18311
ccgcccgagc ugccccuc 18

<210> 18312
<211> 19
<212> RNA
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<220>
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<400> 18312
cccgcccgag cugccccuc 19

<210> 18313
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-1088

<400> 18313
ucccgcccga gcugccccuc 20

<210> 18314
<211> 21
<212> RNA
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<220>
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<400> 18314
aucccgcccg agcugccccu c 21

<210> 18315
<211> 22
<212> RNA
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<220>
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<400> 18315
uaucccgccc gagcugcccc uc 22

<210> 18316
<211> 23
<212> RNA
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<220>
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<210> 18339
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<210> 18340
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<210> 18343
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<210> 18344
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<210> 18345
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<210> 18346
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<210> 18348
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<210> 18350
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<220>
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<210> 18351
<211> 23
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<220>
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guccugccug cccaggagca aag 23

<210> 18352
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<210> 18353
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<400> 18355
agacagagac agggagacag 20

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<220>
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<210> 18372
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<400> 18384
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<210> 18385
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<400> 18386
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<210> 18387
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<210> 18394
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<220>
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gacagagaca gggagacaga ggag 24

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<210> 18397
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<210> 18398
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<220>
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<210> 18399
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<220>
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<400> 18399
gggacuuggg ccaggggagg ag 22

<210> 18400
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<220>
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<400> 18400
ggggacuugg gccaggggag gag 23

<210> 18401
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<220>
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<400> 18401
aggggacuug ggccagggga ggag 24

<210> 18402
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<220>
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<400> 18402
agaggagaug gggaggag 18

<210> 18403
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<220>
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<400> 18403
cagaggagau ggggaggag 19

<210> 18404
<211> 20
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<220>
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<400> 18404
acagaggaga uggggaggag 20

<210> 18405
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<220>
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<400> 18405
gacagaggag auggggagga g 21

<210> 18406
<211> 22
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<220>
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<400> 18406
agacagagga gauggggagg ag 22

<210> 18407
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<220>
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<400> 18407
gagacagagg agauggggag gag 23

<210> 18408
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<220>
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<400> 18408
ggagacagag gagaugggga ggag 24

<210> 18409
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<220>
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<400> 18409
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<210> 18410
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<220>
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<400> 18410
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<210> 18411
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<220>
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<210> 18412
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<220>
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<400> 18412
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<210> 18413
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<220>
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<400> 18413
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<210> 18414
<211> 23
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<220>
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<400> 18414
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<210> 18415
<211> 24
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<220>
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<400> 18415
gccuucucca cugcucaggc ggag 24

<210> 18416
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<220>
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<400> 18416
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<210> 18417
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<220>
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<400> 18417
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<210> 18418
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<220>
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<400> 18418
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<210> 18419
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<220>
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<400> 18419
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<210> 18420
<211> 22
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<220>
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<400> 18420
gacagaggca gugcuggggg ag 22

<210> 18421
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<212> RNA
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<220>
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<400> 18421
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<210> 18422
<211> 24
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<213> Artificial Sequence

<220>
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<400> 18422
gugacagagg cagugcuggg ggag 24

<210> 18423
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<220>
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<400> 18423
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<210> 18424
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<220>
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<400> 18424
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<210> 18425
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<400> 18425
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<210> 18426
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<220>
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<400> 18426
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<210> 18427
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<220>
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<400> 18427
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<210> 18428
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<220>
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<400> 18428
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<210> 18429
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<220>
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<400> 18429
acgcagcccc aaggaccggc ugag 24

<210> 18430
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<220>
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<400> 18430
ugcucaggcg gaggugag 18

<210> 18431
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<220>
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<400> 18431
cugcucaggc ggaggugag 19

<210> 18432
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<212> RNA
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<220>
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<400> 18432
acugcucagg cggaggugag 20

<210> 18433
<211> 21
<212> RNA
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<220>
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<400> 18433
cacugcucag gcggagguga g 21

<210> 18434
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<220>
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<400> 18434
ccacugcuca ggcggaggug ag 22

<210> 18435
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<220>
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<400> 18435
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<210> 18436
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<220>
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<400> 18436
cuccacugcu caggcggagg ugag 24

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<210> 18441
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<210> 18442
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agugcugggg gaggaggggu gag 23

<210> 18443
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cagugcuggg ggaggagggg ugag 24

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<220>
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<400> 18447
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<220>
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guggccccca cgcccuaccc cg 22

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<210> 18450
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ccguggcccc cacgcccuac cccg 24

<210> 18451
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cagagcuggg ggccaagg 18

<210> 18452
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<220>
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<400> 18452
gcagagcugg gggccaagg 19

<210> 18453
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<220>
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<400> 18453
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<210> 18454
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<220>
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gggcagagcu gggggccaag g 21

<210> 18455
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<220>
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ggggcagagc ugggggccaa gg 22

<210> 18456
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<220>
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<210> 18457
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<400> 18457
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<210> 18458
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<220>
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<400> 18458
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<210> 18459
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<220>
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<210> 18460
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<220>
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<210> 18461
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<220>
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<210> 18462
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<220>
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<210> 18463
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<220>
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<210> 18464
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<400> 18464
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<210> 18465
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<220>
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<400> 18465
aaacuguccc aggucagg 18

<210> 18466
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<220>
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gaaacugucc caggucagg 19

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<220>
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<210> 18469
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<220>
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<210> 18470
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<220>
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<210> 18471
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<220>
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<400> 18471
gaagggaaac ugucccaggu cagg 24

<210> 18472
<211> 18
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<220>
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<210> 18473
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<220>
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<210> 18474
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<220>
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<400> 18474
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<220>
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<400> 18475
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<220>
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<400> 18476
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<210> 18477
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<220>
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<400> 18477
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<210> 18478
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<220>
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<400> 18478
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<210> 18479
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<210> 18480
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<220>
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<220>
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<400> 18481
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<220>
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<210> 18483
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<210> 18484
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<210> 18485
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<210> 18486
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<220>
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<400> 18486
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<210> 18487
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<220>
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<400> 18487
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<210> 18488
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<220>
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<400> 18488
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<400> 18489
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<210> 18490
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<210> 18491
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<220>
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<400> 18491
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<210> 18492
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<220>
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<400> 18492
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<210> 18493
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<220>
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<400> 18493
gggggaggag gggugagg 18

<210> 18494
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<220>
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<400> 18494
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<210> 18495
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<220>
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<400> 18495
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<210> 18496
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<220>
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<400> 18496
gcugggggag gaggggugag g 21

<210> 18497
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<220>
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<400> 18497
ugcuggggga ggagggguga gg 22

<210> 18498
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<220>
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<400> 18498
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<210> 18499
<211> 24
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<220>
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<400> 18499
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<210> 18500
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<400> 18500
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<220>
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<400> 18501
acgcagcccc aaggaccgg 19

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<220>
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<400> 18502
cacgcagccc caaggaccgg 20

<210> 18503
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<220>
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<400> 18503
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<210> 18504
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<220>
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<400> 18504
ccccuccuga ggcugccgg 19

<210> 18505
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<220>
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<400> 18505
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<210> 18506
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<220>
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<400> 18506
ugccccuccu gaggcugccg g 21

<210> 18507
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<220>
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<400> 18507
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<210> 18508
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<220>
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<400> 18508
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<210> 18509
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<220>
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<210> 18510
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<220>
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<400> 18510
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<210> 18511
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<400> 18511
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<210> 18512
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<220>
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<400> 18512
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<210> 18513
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<220>
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<210> 18514
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<220>
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cugcucaggc ggaggugagc gg 22

<210> 18515
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<220>
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<400> 18515
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<210> 18516
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<220>
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<400> 18516
cacugcucag gcggagguga gcgg 24

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<220>
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<400> 18517
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<210> 18518
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<220>
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<400> 18518
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<210> 18519
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<220>
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<400> 18519
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<210> 18520
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<220>
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<400> 18520
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<210> 18521
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<220>
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<400> 18521
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<210> 18522
<211> 23
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<220>
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<400> 18522
caaagagggg acuugggcca ggg 23

<210> 18523
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<220>
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<400> 18523
gcaaagaggg gacuugggcc aggg 24

<210> 18524
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<220>
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<400> 18524
guaggacugg ggagaggg 18

<210> 18525
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<220>
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<400> 18525
gguaggacug gggagaggg 19

<210> 18526
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<220>
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<400> 18526
ggguaggacu ggggagaggg 20

<210> 18527
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<220>
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<400> 18527
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<210> 18528
<211> 22
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<220>
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<400> 18528
ggggguagga cuggggagag gg 22

<210> 18529
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<220>
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<400> 18529
aggggguagg acuggggaga ggg 23

<210> 18530
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<220>
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<400> 18530
gaggggguag gacuggggag aggg 24

<210> 18531
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<220>
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<400> 18531
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<210> 18532
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<220>
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<400> 18532
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<210> 18533
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<400> 18533
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<210> 18534
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<220>
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<400> 18534
ggcagugcug ggggaggagg g 21

<210> 18535
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<220>
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<400> 18535
aggcagugcu gggggaggag gg 22

<210> 18536
<211> 23
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<220>
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<400> 18536
gaggcagugc ugggggagga ggg 23

<210> 18537
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<220>
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<400> 18537
agaggcagug cuggggggagg aggg 24

<210> 18538
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<220>
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<400> 18538
ccugccaggg acugaggg 18

<210> 18539
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<220>
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<400> 18539
accugccagg gacugaggg 19

<210> 18540
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<220>
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<400> 18540
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<210> 18541
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<220>
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<400> 18541
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<210> 18542
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<220>
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<400> 18542
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<210> 18543
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<220>
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<400> 18543
cccgaccugc cagggacuga ggg 23

<210> 18544
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<220>
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<400> 18544
ccccgaccug ccagggacug aggg 24

<210> 18545
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<220>
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<400> 18545
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<210> 18546
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<220>
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<400> 18546
uccugggcug cagugaggg 19

<210> 18547
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<220>
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<400> 18547
uuccugggcu gcagugaggg 20

<210> 18548
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<220>
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<400> 18548
guuccugggc ugcagugagg g 21

<210> 18549
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<220>
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<400> 18549
gguuccuggg cugcagugag gg 22

<210> 18550
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<220>
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<400> 18550
agguuccugg gcugcaguga ggg 23

<210> 18551
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<220>
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<400> 18551
cagguuccug ggcugcagug aggg 24

<210> 18552
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<220>
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<400> 18552
ccuccugagg cugccggg 18

<210> 18553
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<220>
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<400> 18553
cccuccugag gcugccggg 19

<210> 18554
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<220>
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<400> 18554
ccccuccuga ggcugccggg 20

<210> 18555
<211> 21
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<220>
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<400> 18555
gccccuccug aggcugccgg g 21

<210> 18556
<211> 22
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<220>
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<400> 18556
ugccccuccu gaggcugccg gg 22

<210> 18557
<211> 23
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<400> 18559
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<210> 18561
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<210> 18564
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<210> 18565
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<220>
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<400> 18566
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<210> 18567
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<220>
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aggaggggug aggaggggg 19

<210> 18568
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<220>
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<400> 18568
gaggaggggu gaggaggggg 20

<210> 18569
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ggaggagggg ugaggagggg g 21

<210> 18570
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<210> 18571
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<210> 18572
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<220>
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<210> 18573
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<220>
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<400> 18573
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<210> 18574
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<220>
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<220>
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<210> 18580
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<220>
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<210> 18581
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<220>
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<400> 18581
acagaggcag ugcuggggg 19

<210> 18582
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<220>
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<210> 18583
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<220>
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<400> 18583
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<210> 18584
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<220>
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<400> 18584
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<210> 18585
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<220>
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<400> 18585
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<210> 18586
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<220>
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<400> 18586
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<220>
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<210> 18588
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<220>
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<210> 18589
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<220>
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<210> 18590
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<400> 18590
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<210> 18591
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<220>
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<210> 18592
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<220>
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<400> 18592
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<210> 18593
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<220>
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<400> 18593
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<210> 18594
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<220>
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<400> 18594
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<210> 18597
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<210> 18598
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<210> 18599
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<210> 18600
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<210> 18601
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<400> 18601
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<210> 18603
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<210> 18604
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<400> 18604
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<210> 18605
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<400> 18605
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<210> 18606
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<400> 18606
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<210> 18607
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<400> 18607
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<210> 18608
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<220>
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<400> 18608
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<210> 18609
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<220>
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<400> 18610
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<210> 18611
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<400> 18611
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<210> 18612
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<220>
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<400> 18612
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<210> 18613
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<220>
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<400> 18613
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<210> 18614
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<220>
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<400> 18614
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<210> 18615
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<220>
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<400> 18615
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<210> 18616
<211> 19
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<220>
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<400> 18616
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<210> 18617
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<220>
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<400> 18617
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<210> 18618
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<400> 18618
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<210> 18619
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<400> 18619
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<210> 18620
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<220>
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<400> 18620
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<210> 18621
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<220>
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<400> 18621
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<210> 18622
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<400> 18622
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<210> 18623
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<220>
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<400> 18623
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<210> 18624
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<220>
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<400> 18624
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<210> 18625
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<220>
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<400> 18625
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<210> 18626
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<220>
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<400> 18626
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<210> 18627
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<220>
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<400> 18627
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<210> 18628
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<220>
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<400> 18628
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<210> 18629
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<220>
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<400> 18629
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<210> 18630
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<220>
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<400> 18630
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<210> 18631
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<220>
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<400> 18631
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<210> 18632
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<220>
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<400> 18632
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<210> 18633
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<220>
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<400> 18633
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<210> 18634
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<220>
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<400> 18634
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<210> 18635
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<220>
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<400> 18635
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<210> 18636
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<220>
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<400> 18636
uccuccacau ccacgugg 18

<210> 18637
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<220>
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<400> 18637
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<210> 18638
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<220>
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<400> 18638
cuuccuccac auccacgugg 20

<210> 18639
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<220>
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<400> 18639
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<210> 18640
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<400> 18640
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<210> 18641
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<220>
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<400> 18641
ccucuuccuc cacauccacg ugg 23

<210> 18642
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<220>
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<400> 18642
cccucuuccu ccacauccac gugg 24

<210> 18643
<211> 18
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<220>
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<400> 18643
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<210> 18644
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<220>
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<400> 18644
aggacugggg agagggugg 19

<210> 18645
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<220>
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<400> 18645
uaggacuggg gagagggugg 20

<210> 18646
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<220>
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<400> 18646
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<210> 18647
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<220>
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<400> 18647
gguaggacug gggagagggu gg 22

<210> 18648
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<220>
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<400> 18648
ggguaggacu ggggagaggg ugg 23

<210> 18649
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<220>
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<400> 18649
gggguaggac uggggagagg gugg 24

<210> 18650
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<220>
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<400> 18650
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<210> 18651
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<220>
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<400> 18651
cagggagaca gaggagaug 19

<210> 18652
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<220>
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<400> 18652
acagggagac agaggagaug 20

<210> 18653
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<220>
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<400> 18653
gacagggaga cagaggagau g 21

<210> 18654
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<220>
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<400> 18654
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<210> 18655
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<220>
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<400> 18655
gagacaggga gacagaggag aug 23

<210> 18656
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<220>
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<400> 18656
agagacaggg agacagagga gaug 24

<210> 18657
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<220>
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<400> 18657
gaggaggggg uaggacug 18

<210> 18658
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<220>
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<400> 18658
ugaggagggg guaggacug 19

<210> 18659
<211> 20
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<220>
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<400> 18659
gugaggaggg gguaggacug 20

<210> 18660
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<213> Artificial Sequence

<220>
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<400> 18660
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<210> 18661
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<220>
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<400> 18661
gggugaggag gggguaggac ug 22

<210> 18662
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<220>
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<400> 18662
ggggugagga ggggguagga cug 23

<210> 18663
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<220>
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<400> 18663
aggggugagg aggggguagg acug 24

<210> 18664
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<220>
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<400> 18664
gccgggccuc ccugccug 18

<210> 18665
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<220>
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<400> 18665
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<210> 18666
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<220>
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<400> 18666
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<210> 18667
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<220>
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<400> 18667
ggggccgggc cucccugccu g 21

<210> 18668
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<220>
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<400> 18668
gggggccggg ccucccugcc ug 22

<210> 18669
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<220>
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<400> 18669
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<210> 18670
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<220>
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<400> 18670
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<210> 18671
<211> 18
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<220>
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<400> 18671
gugacagagg cagugcug 18

<210> 18672
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<212> RNA
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<220>
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<400> 18672
agugacagag gcagugcug 19

<210> 18673
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<212> RNA
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<220>
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<400> 18673
gagugacaga ggcagugcug 20

<210> 18674
<211> 21
<212> RNA
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<220>
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<400> 18674
agagugacag aggcagugcu g 21

<210> 18675
<211> 22
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<220>
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<400> 18675
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<210> 18676
<211> 23
<212> RNA
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<220>
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<400> 18676
cgagagugac agaggcagug cug 23

<210> 18677
<211> 24
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5262

<400> 18677
gcgagaguga cagaggcagu gcug 24

<210> 18678
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<220>
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<400> 18678
aaccccacuc ccauucug 18

<210> 18679
<211> 19
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<220>
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<400> 18679
caaccccacu cccauucug 19

<210> 18680
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<220>
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<400> 18680
ucaaccccac ucccauucug 20

<210> 18681
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<220>
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<400> 18681
cucaacccca cucccauucu g 21

<210> 18682
<211> 22
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<220>
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<400> 18682
gcucaacccc acucccauuc ug 22

<210> 18683
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<220>
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<400> 18683
ggcucaaccc cacucccauu cug 23

<210> 18684
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<400> 18684
gggcucaacc ccacucccau ucug 24

<210> 18685
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<220>
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<400> 18685
agagugacag aggcagug 18

<210> 18686
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<220>
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<400> 18686
gagagugaca gaggcagug 19

<210> 18687
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<220>
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<400> 18687
cgagagugac agaggcagug 20

<210> 18688
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<400> 18688
gcgagaguga cagaggcagu g 21

<210> 18689
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<220>
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<400> 18689
ggcgagagug acagaggcag ug 22

<210> 18690
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<220>
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<400> 18690
gggcgagagu gacagaggca gug 23

<210> 18691
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<220>
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<400> 18691
ugggcgagag ugacagaggc agug 24

<210> 18692
<211> 18
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<220>
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<400> 18692
aggacugggg agagggug 18

<210> 18693
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<220>
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<400> 18693
uaggacuggg gagagggug 19

<210> 18694
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<220>
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<400> 18694
guaggacugg ggagagggug 20

<210> 18695
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<220>
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<400> 18695
gguaggacug gggagagggu g 21

<210> 18696
<211> 22
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<220>
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<400> 18696
ggguaggacu ggggagaggg ug 22

<210> 18697
<211> 23
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<220>
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<400> 18697
gggguaggac uggggagagg gug 23

<210> 18698
<211> 24
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<220>
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<400> 18698
ggggguagga cuggggagag ggug 24

<210> 18699
<211> 18
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<220>
<223> Synthetic oligonucleotide: PDCD1-5281

<400> 18699
gcugggggag gaggggug 18

<210> 18700
<211> 19
<212> RNA
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<220>
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<400> 18700
ugcuggggga ggaggggug 19

<210> 18701
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2251

<400> 18701
gugcuggggg aggaggggug 20

<210> 18702
<211> 21
<212> RNA
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<220>
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<400> 18702
agugcugggg gaggaggggu g 21

<210> 18703
<211> 22
<212> RNA
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<220>
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<400> 18703
cagugcuggg ggaggagggg ug 22

<210> 18704
<211> 23
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<220>
<223> Synthetic oligonucleotide: PDCD1-5285

<400> 18704
gcagugcugg gggaggaggg gug 23

<210> 18705
<211> 24
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<220>
<223> Synthetic oligonucleotide: PDCD1-5286

<400> 18705
ggcagugcug ggggaggagg ggug 24

<210> 18706
<211> 18
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<220>
<223> Synthetic oligonucleotide: PDCD1-5287

<400> 18706
cugucccagg ucagguug 18

<210> 18707
<211> 19
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<220>
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<400> 18707
acugucccag gucagguug 19

<210> 18708
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-1028

<400> 18708
aacuguccca ggucagguug 20

<210> 18709
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5289

<400> 18709
aaacuguccc aggucagguu g 21

<210> 18710
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5290

<400> 18710
gaaacugucc caggucaggu ug 22

<210> 18711
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
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<400> 18711
ggaaacuguc ccaggucagg uug 23

<210> 18712
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5292

<400> 18712
gggaaacugu cccaggucag guug 24

<210> 18713
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5293

<400> 18713
cagggagaca gaggagau 18

<210> 18714
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5294

<400> 18714
acagggagac agaggagau 19

<210> 18715
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<220>
<223> Synthetic oligonucleotide: PDCD1-2272

<400> 18715
gacagggaga cagaggagau 20

<210> 18716
<211> 21
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<220>
<223> Synthetic oligonucleotide: PDCD1-5295

<400> 18716
agacagggag acagaggaga u 21

<210> 18717
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5296

<400> 18717
gagacaggga gacagaggag au 22

<210> 18718
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5297

<400> 18718
agagacaggg agacagagga gau 23

<210> 18719
<211> 24
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<220>
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<400> 18719
cagagacagg gagacagagg agau 24

<210> 18720
<211> 18
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<220>
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<400> 18720
ugaggagggg guaggacu 18

<210> 18721
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<220>
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<400> 18721
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<210> 18722
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<220>
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<400> 18722
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<210> 18723
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<220>
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<400> 18723
gggugaggag gggguaggac u 21

<210> 18724
<211> 22
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<220>
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<400> 18724
ggggugagga ggggguagga cu 22

<210> 18725
<211> 23
<212> RNA
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<220>
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<400> 18725
aggggugagg aggggguagg acu 23

<210> 18726
<211> 24
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<220>
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<400> 18726
gaggggugag gaggggguag gacu 24

<210> 18727
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<220>
<223> Synthetic oligonucleotide: PDCD1-3500

<400> 18727
cgccgacccc accuaccu 18

<210> 18728
<211> 19
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<220>
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<400> 18728
ccgccgaccc caccuaccu 19

<210> 18729
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-593

<400> 18729
accgccgacc ccaccuaccu 20

<210> 18730
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<220>
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<400> 18730
gaccgccgac cccaccuacc u 21

<210> 18731
<211> 22
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<220>
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<400> 18731
ugaccgccga ccccaccuac cu 22

<210> 18732
<211> 23
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<220>
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<400> 18732
cugaccgccg accccaccua ccu 23

<210> 18733
<211> 24
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<220>
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<400> 18733
ccugaccgcc gaccccaccu accu 24

<210> 18734
<211> 18
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<220>
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<400> 18734
gaaggugggu ggcccccu 18

<210> 18735
<211> 19
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<220>
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<400> 18735
ggaagguggg uggcccccu 19

<210> 18736
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<220>
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<400> 18736
gggaaggugg guggcccccu 20

<210> 18737
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<220>
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<400> 18737
ggggaaggug gguggccccc u 21

<210> 18738
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<220>
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<400> 18738
uggggaaggu ggguggcccc cu 22

<210> 18739
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<220>
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<400> 18739
cuggggaagg uggguggccc ccu 23

<210> 18740
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<220>
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<400> 18740
ccuggggaag guggguggcc cccu 24

<210> 18741
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<220>
<223> Synthetic oligonucleotide: PDCD1-5311

<400> 18741
caucccccccc aucucccu 18

<210> 18742
<211> 19
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<220>
<223> Synthetic oligonucleotide: PDCD1-5312

<400> 18742
ccaucccccc caucucccu 19

<210> 18743
<211> 20
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<220>
<223> Synthetic oligonucleotide: PDCD1-2295

<400> 18743
cccaucccccc ccaucucccu 20

<210> 18744
<211> 21
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<220>
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<400> 18744
ccccaucccc cccaucuccc u 21

<210> 18745
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5314

<400> 18745
cccccauccc ccccaucucc cu 22

<210> 18746
<211> 23
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<220>
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<400> 18746
ucccccaucc cccccaucuc ccu 23

<210> 18747
<211> 24
<212> RNA
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<220>
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<400> 18747
cucccccauc cccccaucu cccu 24

<210> 18748
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5317

<400> 18748
cccauucugu cggagccu 18

<210> 18749
<211> 19
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<220>
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<400> 18749
ucccauucug ucggagccu 19

<210> 18750
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<220>
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<400> 18750
cucccauucu gucggagccu 20

<210> 18751
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<220>
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<400> 18751
acucccauuc ugucggagcc u 21

<210> 18752
<211> 22
<212> RNA
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<220>
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<400> 18752
cacucccauu cugucggagc cu 22

<210> 18753
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5321

<400> 18753
ccacucccau ucugucggag ccu 23

<210> 18754
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5322

<400> 18754
cccacuccca uucugucgga gccu 24

<210> 18755
<211> 18
<212> RNA
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<220>
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<400> 18755
cgacuggcca gggcgccu 18

<210> 18756
<211> 19
<212> RNA
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<220>
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<400> 18756
acgacuggcc agggcgccu 19

<210> 18757
<211> 20
<212> RNA
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<220>
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<400> 18757
gacgacuggc cagggcgccu 20

<210> 18758
<211> 21
<212> RNA
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<220>
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<400> 18758
agacgacugg ccagggcgcc u 21

<210> 18759
<211> 22
<212> RNA
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<220>
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<400> 18759
cagacgacug gccagggcgc cu 22

<210> 18760
<211> 23
<212> RNA
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<220>
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<400> 18760
ccagacgacu ggccagggcg ccu 23

<210> 18761
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3511

<400> 18761
cccagacgac uggccagggc gccu 24

<210> 18762
<211> 18
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5323

<400> 18762
ggccgggccu cccugccu 18

<210> 18763
<211> 19
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<220>
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<400> 18763
gggccgggcc ucccugccu 19

<210> 18764
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<220>
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<400> 18764
ggggccgggc cucccugccu 20

<210> 18765
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<220>
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<400> 18765
gggggccggg ccucccugcc u 21

<210> 18766
<211> 22
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<220>
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<400> 18766
uggggccgg gccucccugc cu 22

<210> 18767
<211> 23
<212> RNA
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<220>
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<400> 18767
cuggggccg ggccucccug ccu 23

<210> 18768
<211> 24
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<220>
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<400> 18768
ccuggggcc gggccucccu gccu 24

<210> 18769
<211> 18
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<220>
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<400> 18769
gugggggucu ccccagcu 18

<210> 18770
<211> 19
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<220>
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<400> 18770
cguggggguc uccccagcu 19

<210> 18771
<211> 20
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<220>
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<400> 18771
ccgugggggu cuccccagcu 20

<210> 18772
<211> 21
<212> RNA
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<220>
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<400> 18772
cccgugggggg ucuccccagc u 21

<210> 18773
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5332

<400> 18773
ccccgugggg gucucccccag cu 22

<210> 18774
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5333

<400> 18774
accccguggg ggucucccca gcu 23

<210> 18775
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5334

<400> 18775
uaccccgugg gggucucccc agcu 24

<210> 18776
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5335

<400> 18776
aggguaaggg gcagagcu 18

<210> 18777
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5336

<400> 18777
caggguaagg ggcagagcu 19

<210> 18778
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-2116

<400> 18778
ucaggguaag gggcagagcu 20

<210> 18779
<211> 21
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5337

<400> 18779
cucaggguaa ggggcagagc u 21

<210> 18780
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5338

<400> 18780
gcucagggua aggggcagag cu 22

<210> 18781
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5339

<400> 18781
agcucagggu aaggggcaga gcu 23

<210> 18782
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5340

<400> 18782
cagcucaggg uaaggggcag agcu 24

<210> 18783
<211> 18
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<220>
<223> Synthetic oligonucleotide: PDCD1-5341

<400> 18783
cccuccagac cccucgcu 18

<210> 18784
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5342

<400> 18784
ucccuccaga ccccucgcu 19

<210> 18785
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-1000

<400> 18785
gucccuccag accccucgcu 20

<210> 18786
<211> 21
<212> RNA
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<220>
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<400> 18786
ggucccucca gaccccucgc u 21

<210> 18787
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
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<400> 18787
aggucccucc agaccccucg cu 22

<210> 18788
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5345

<400> 18788
aaggucccuc cagaccccuc gcu 23

<210> 18789
<211> 24
<212> RNA
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<220>
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<400> 18789
aaaggucccu ccagaccccu cgcu 24

<210> 18790
<211> 18
<212> RNA
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<220>
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<400> 18790
cagccccaag gaccggcu 18

<210> 18791
<211> 19
<212> RNA
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<220>
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<400> 18791
gcagccccaa ggaccggcu 19

<210> 18792
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 18792
cgcagcccca aggaccggcu 20

<210> 18793
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
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<400> 18793
cccuccagac cccuggcu 18

<210> 18794
<211> 19
<212> RNA
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<220>
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<400> 18794
ucccuccaga ccccuggcu 19

<210> 18795
<211> 20
<212> RNA
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<220>
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<400> 18795
gucccuccag accccuggcu 20

<210> 18796
<211> 21
<212> RNA

<213> Artificial Sequence

<220>
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<400> 18796
ggucccucca gaccccuggc u 21

<210> 18797
<211> 22
<212> RNA
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<220>
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<400> 18797
aggucccucc agaccccugg cu 22

<210> 18798
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gaaggucccu ccagaccccu ggcu 24

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<210> 18806
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<210> 18807
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<400> 18807
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<210> 18809
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<210> 18811
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<210> 18812
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<210> 18813
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<220>
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<400> 18813
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<210> 18814
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<400> 18814
agguuccugg gcugcagu 18

<210> 18815
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<400> 18815
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<210> 18819
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<400> 18820
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<210> 18821
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<220>
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<400> 18821
agagaggaac ccaggagu 18

<210> 18822
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<210> 18823
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<400> 18824
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<210> 18825
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<210> 18826
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<400> 18827
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<210> 18828
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<210> 18831
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<210> 18832
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<220>
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<210> 18833
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<220>
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<400> 18833
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<210> 18834
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<400> 18834
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<220>
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<400> 18835
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<210> 18837
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<220>
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<210> 18842
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<210> 18847
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<220>
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<400> 18847
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<400> 18848
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<210> 18849
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<220>
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<210> 18854
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<220>
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<400> 18854
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<210> 18855
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<400> 18855
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<210> 18856
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<400> 18856
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<210> 18857
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<220>
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<400> 18857
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<400> 18858
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<400> 18859
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<210> 18861
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<400> 18861
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<400> 18862
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<220>
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<400> 18863
accccacucc cauucugu 18

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<400> 18864
aaccccacuc ccauucugu 19

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<220>
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<400> 18865
caaccccacu cccauucugu 20

<210> 18866
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<400> 18866
ucaaccccac ucccauucug u 21

<210> 18867
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<220>
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<400> 18867
cucaacccca cucccauucu gu 22

<210> 18868
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<220>
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<400> 18868
gcucaacccc acucccauuc ugu 23

<210> 18869
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<220>
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<400> 18869
ggcucaaccc cacucccauu cugu 24

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<220>
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<400> 18870
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<220>
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<400> 18871
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<210> 18873
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<220>
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<400> 18874
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<220>
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<400> 18875
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<210> 18876
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<220>
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<400> 18876
ccagucgucu gggcggugcu acaa 24

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<400> 18877
ccagaggcuc cgacagaa 18

<210> 18878
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<220>
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<400> 18879
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<220>
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<210> 18882
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<220>
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<400> 18882
ggcucccaga ggcuccgaca gaa 23

<210> 18883
<211> 24
<212> RNA
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<220>
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<400> 18883
aggcucccag aggcuccgac agaa 24

<210> 18884
<211> 18
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<220>
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<400> 18884
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<210> 18885
<211> 19
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<220>
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<400> 18885
ccacguggau guggaggaa 19

<210> 18886
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<220>
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<400> 18886
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<210> 18887
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<220>
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<400> 18887
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<210> 18888
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<220>
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<400> 18888
cgcccacgug gauguggagg aa 22

<210> 18889
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<220>
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<400> 18889
ucgcccacgu ggauguggag gaa 23

<210> 18890
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<220>
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<400> 18890
cucgcccacg uggaugugga ggaa 24

<210> 18891
<211> 18
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<220>
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<400> 18891
gcagugagca gagacaca 18

<210> 18892
<211> 19
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<220>
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<400> 18892
agcagugagc agagacaca 19

<210> 18893
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<220>
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<400> 18893
cagcagugag cagagacaca 20

<210> 18894
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<220>
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<400> 18894
acagcaguga gcagagacac a 21

<210> 18895
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<220>
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<400> 18895
cacagcagug agcagagaca ca 22

<210> 18896
<211> 23
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<220>
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<400> 18896
ccacagcagu gagcagagac aca 23

<210> 18897
<211> 24
<212> RNA
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<220>
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<400> 18897
gccacagcag ugagcagaga caca 24

<210> 18898
<211> 18
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<220>
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<400> 18898
cagcagugag cagagaca 18

<210> 18899
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<220>
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<400> 18899
acagcaguga gcagagaca 19

<210> 18900
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<220>
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<400> 18900
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<210> 18901
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<220>
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<400> 18901
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<210> 18902
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<220>
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<400> 18902
gccacagcag ugagcagaga ca 22

<210> 18903
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<220>
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<400> 18903
ggccacagca gugagcagag aca 23

<210> 18904
<211> 24
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<220>
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<400> 18904
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<210> 18905
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<220>
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<400> 18905
agggaggccc ggccccca 18

<210> 18906
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<220>
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<400> 18906
cagggaggcc cggccccca 19

<210> 18907
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<220>
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<400> 18907
gcagggaggc ccggccccca 20

<210> 18908
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<220>
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<400> 18908
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<210> 18909
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<220>
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<400> 18909
aggcagggag gcccggcccc ca 22

<210> 18910
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<220>
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<400> 18910
caggcaggga ggcccggccc cca 23

<210> 18911
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<220>
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<400> 18911
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<210> 18912
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<220>
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<400> 18912
cccaggaacc ugagccca 18

<210> 18913
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<220>
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<400> 18913
gcccaggaac cugagccca 19

<210> 18914
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<220>
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<210> 18915
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<220>
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<400> 18915
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<210> 18916
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<220>
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<400> 18916
gcagcccagg aaccugagcc ca 22

<210> 18917
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<220>
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<400> 18917
ugcagcccag gaaccugagc cca 23

<210> 18918
<211> 24
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<220>
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<210> 19009
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<220>
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<210> 19012
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<400> 19012
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<220>
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<210> 19014
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<220>
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<210> 19015
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<220>
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<400> 19015
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<210> 19016
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<220>
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<400> 19016
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<210> 19017
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<210> 19018
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<220>
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<210> 19019
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<220>
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<210> 19020
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<220>
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<210> 19021
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<220>
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<400> 19021
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<210> 19022
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<220>
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<400> 19022
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<210> 19023
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<220>
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<400> 19023
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<210> 19024
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<220>
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<210> 19026
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<220>
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<220>
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<210> 19029
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<400> 19029
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<210> 19030
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<400> 19031
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<220>
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<400> 19032
cccucccuuc aaccugacc 19

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<400> 19033
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<210> 19034
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<220>
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<400> 19034
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<210> 19035
<211> 22
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<220>
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<210> 19036
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<220>
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<400> 19036
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<210> 19037
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<210> 19038
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<210> 19043
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<220>
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ggcccccagc ucugccccuu acc 23

<210> 19044
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<220>
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uggcccccag cucugccccu uacc 24

<210> 19045
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<220>
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ugagcugggg agaccccc 18

<210> 19046
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<220>
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<400> 19046
cugagcuggg gagaccccc 19

<210> 19047
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<220>
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<400> 19047
ccugagcugg ggagaccccc 20

<210> 19048
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<220>
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cccugagcug gggagacccc c 21

<210> 19049
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<220>
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gcccugagcu ggggagaccc cc 22

<210> 19050
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<220>
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<400> 19050
ggcccugagc uggggagacc ccc 23

<210> 19051
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<220>
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<400> 19051
gggcccugag cuggggagac cccc 24

<210> 19052
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<220>
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<400> 19052
cagggaggcc cggccccc 18

<210> 19053
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<210> 19054
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ggcagggagg cccggccccc 20

<210> 19055
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<220>
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aggcagggag gcccggcccc c 21

<210> 19056
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<220>
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<400> 19056
caggcaggga ggcccggccc cc 22

<210> 19057
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<220>
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<400> 19057
ccaggcaggg aggcccggcc ccc 23

<210> 19058
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<220>
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<400> 19058
cccaggcagg gaggcccggc cccc 24

<210> 19059
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<220>
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<400> 19059
gcagggaggc ccggcccc 18

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<220>
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ggcagggagg cccggcccc 19

<210> 19061
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<220>
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<400> 19061
aggcagggag gcccggcccc 20

<210> 19062
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<220>
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<400> 19062
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<210> 19063
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<220>
<223> Synthetic oligonucleotide: PDCD1-5576

<400> 19063
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<210> 19064
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<220>
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<400> 19064
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<210> 19065
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<220>
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<400> 19065
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<210> 19066
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<220>
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caccccucac ugcagccc 18

<210> 19067
<211> 19
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<220>
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ccaccccuca cugcagccc 19

<210> 19068
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<220>
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<400> 19068
cccaccccuc acugcagccc 20

<210> 19069
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<220>
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<400> 19069
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<210> 19070
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<220>
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<400> 19070
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<210> 19071
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5583

<400> 19071
gagcccaccc cucacugcag ccc 23

<210> 19072
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5584

<400> 19072
ugagcccacc ccucacugca gccc 24

<210> 19073
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5585

<400> 19073
ggccuggccc uggcagcc 18

<210> 19074
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5586

<400> 19074
gggccuggcc cuggcagcc 19

<210> 19075
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-1429

<400> 19075
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<210> 19076
<211> 21
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<220>
<223> Synthetic oligonucleotide: PDCD1-5587

<400> 19076
gcgggccugg cccuggcagc c 21

<210> 19077
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<220>
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<400> 19077
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<210> 19078
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<220>
<223> Synthetic oligonucleotide: PDCD1-5589

<400> 19078
aggcgggccu ggcccuggca gcc 23

<210> 19079
<211> 24
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<220>
<223> Synthetic oligonucleotide: PDCD1-5590

<400> 19079
gaggcgggcc uggcccuggc agcc 24

<210> 19080
<211> 18
<212> RNA
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<220>
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<400> 19080
ccaccccuca cugcagcc 18

<210> 19081
<211> 19
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<220>
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<400> 19081
cccaccccuc acugcagcc 19

<210> 19082
<211> 20
<212> RNA
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<220>
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<400> 19082
gcccaccccu cacugcagcc 20

<210> 19083
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<220>
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<400> 19083
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<210> 19084
<211> 22
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<220>
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<400> 19084
gagcccaccc cucacugcag cc 22

<210> 19085
<211> 23
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<213> Artificial Sequence

<220>
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<400> 19085
ugagcccacc ccucacugca gcc 23

<210> 19086
<211> 24
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<220>
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<400> 19086
uugagcccac cccucacugc agcc 24

<210> 19087
<211> 18
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<220>
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<400> 19087
agcccaggaa ccugagcc 18

<210> 19088
<211> 19
<212> RNA
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<220>
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<400> 19088
cagcccagga accugagcc 19

<210> 19089
<211> 20
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<220>
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<400> 19089
gcagcccagg aaccugagcc 20

<210> 19090
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<220>
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<400> 19090
ugcagcccag gaaccugagc c 21

<210> 19091
<211> 22
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<220>
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<400> 19091
cugcagccca ggaaccugag cc 22

<210> 19092
<211> 23
<212> RNA
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<220>
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<400> 19092
acugcagccc aggaaccuga gcc 23

<210> 19093
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<220>
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<400> 19093
cacugcagcc caggaaccug agcc 24

<210> 19094
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<220>
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<400> 19094
acagaggagg aaggggcc 18

<210> 19095
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5605

<400> 19095
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<210> 19096
<211> 20
<212> RNA
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<220>
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<400> 19096
acacagagga ggaaggggcc 20

<210> 19097
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<220>
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<400> 19097
gacacagagg aggaaggggc c 21

<210> 19098
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5607

<400> 19098
agacacagag gaggaagggg cc 22

<210> 19099
<211> 23
<212> RNA
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<220>
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<400> 19099
gagacacaga ggaggaaggg gcc 23

<210> 19100
<211> 24
<212> RNA
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<220>
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<400> 19100
agagacacag aggaggaagg ggcc 24

<210> 19101
<211> 18
<212> RNA
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<220>
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<400> 19101
ggguagggcg ugggggcc 18

<210> 19102
<211> 19
<212> RNA

<213> Artificial Sequence

<220>
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<400> 19102
gggguagggc gugggggcc 19

<210> 19103
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19103
cgggguaggg cgugggggcc 20

<210> 19104
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19104
acgggguagg gcgugggggc c 21

<210> 19105
<211> 22
<212> RNA
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<220>
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<400> 19105
cacgggguag ggcgugggggc cc 22

<210> 19106
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5614

<400> 19106
ccacggggua gggcgugggg gcc 23

<210> 19107
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5615

<400> 19107
cccacggggu agggcguggg ggcc 24

<210> 19108
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5616

<400> 19108
gggcagccgg gaggcucc 18

<210> 19109
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5617

<400> 19109
ugggcagccg ggaggcucc 19

<210> 19110
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-1910

<400> 19110
gugggcagcc gggaggcucc 20

<210> 19111
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5618

<400> 19111
ugugggcagc cgggaggcuc c 21

<210> 19112
<211> 22
<212> RNA
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<220>
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<400> 19112
cugugggcag ccgggaggcu cc 22

<210> 19113
<211> 23
<212> RNA
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<220>
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<400> 19113
gcugugggca gccgggaggc ucc 23

<210> 19114
<211> 24
<212> RNA
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<220>
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<400> 19114
ggcugugggc agccgggagg cucc 24

<210> 19115
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<220>
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<400> 19115
uccccucuca gccggucc 18

<210> 19116
<211> 19
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<220>
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<400> 19116
gucccucuc agccggucc 19

<210> 19117
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<220>
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<400> 19117
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<210> 19118
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<220>
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<400> 19118
cugucccuc ucagccgguc c 21

<210> 19119
<211> 22
<212> RNA

<213> Artificial Sequence

<220>
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<400> 19119
ucuguccccu cucagccggu cc 22

<210> 19120
<211> 23
<212> RNA
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<220>
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<400> 19120
cucugucccc ucucagccgg ucc 23

<210> 19121
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19121
ccucuguccc cucucagccg gucc 24

<210> 19122
<211> 18
<212> RNA
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<220>
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<400> 19122
cuggcagccc aggggucc 18

<210> 19123
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5629

<400> 19123
ccuggcagcc caggggucc 19

<210> 19124
<211> 20
<212> RNA
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<220>
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<400> 19124
cccuggcagc ccaggggucc 20

<210> 19125
<211> 21
<212> RNA
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<220>
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<400> 19125
gcccuggcag cccagggguc c 21

<210> 19126
<211> 22
<212> RNA
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<220>
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<400> 19126
ggcccuggca gcccaggggu cc 22

<210> 19127
<211> 23
<212> RNA
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<220>
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<400> 19127
uggcccuggc agcccagggg ucc 23

<210> 19128
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19128
cuggcccugg cagcccaggg gucc 24

<210> 19129
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19129
gucggcgguc aggugucc 18

<210> 19130
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5635

<400> 19130
ggucggcggu caggugucc 19

<210> 19131
<211> 20
<212> RNA
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<220>
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<400> 19131
gggucggcgg ucaggugucc 20

<210> 19132
<211> 21
<212> RNA
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<220>
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<400> 19132
ggggucggcg gucagguguc c 21

<210> 19133
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5637

<400> 19133
uggggucggc ggucaggugu cc 22

<210> 19134
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5638

<400> 19134
gugggggucgg cggucaggug ucc 23

<210> 19135
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5639

<400> 19135
gguggggucg gcggucaggu gucc 24

<210> 19136
<211> 18
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5640

<400> 19136
agccucagga ggggcagc 18

<210> 19137
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5641

<400> 19137
cagccucagg aggggcagc 19

<210> 19138
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-1497

<400> 19138
gcagccucag gaggggcagc 20

<210> 19139
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5642

<400> 19139
ggcagccuca ggaggggcag c 21

<210> 19140
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5643

<400> 19140
cggcagccuc aggaggggca gc 22

<210> 19141
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5644

<400> 19141
ccggcagccu caggaggggc agc 23

<210> 19142
<211> 24
<212> RNA
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<220>
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<400> 19142
cccggcagcc ucaggagggg cagc 24

<210> 19143
<211> 18
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<220>
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<400> 19143
ugugguggcuu ugggcagc 18

<210> 19144
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19144
cugugguggcu uugggcagc 19

<210> 19145
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-1412

<400> 19145
gcugugguggc uuugggcagc 20

<210> 19146
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5648

<400> 19146
agcugugugg cuuugggcag c 21

<210> 19147
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5649

<400> 19147
gagcugugug gcuuugggca gc 22

<210> 19148
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5650

<400> 19148
ugagcugugu ggcuuugggc agc 23

<210> 19149
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-5651

<400> 19149
cugagcugug uggcuuuggg cagc 24

<210> 19150
<211> 18
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<220>
<223> Synthetic oligonucleotide: PDCD1-5652

<400> 19150
ggucaggugu cccagagc 18

<210> 19151
<211> 19
<212> RNA
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<220>
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<400> 19151
cggucaggug ucccagagc 19

<210> 19152
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-1441

<400> 19152
gcggucaggu gucccagagc 20

<210> 19153
<211> 21
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5654

<400> 19153
ggcggucagg ugucccagag c 21

<210> 19154
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5655

<400> 19154
cggcggucag gugucccaga gc 22

<210> 19155
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5656

<400> 19155
ucggcgguca ggugucccag agc 23

<210> 19156
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5657

<400> 19156
gucggcgguc aggugucccа gagc 24

<210> 19157
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5658

<400> 19157
gcccaggggu cccggagc 18

<210> 19158
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-5659

<400> 19158
agcccagggg ucccggagc 19

<210> 19159
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-1424

<400> 19159
cagcccaggg gucccggagc 20

<210> 19160
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ccuuccgcuc accuccgc 18

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<210> 19180
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<210> 19183
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<210> 19184
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aguuucccuu ccgcucaccu ccgc 24

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<400> 19188
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<210> 19190
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<220>
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<210> 19194
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<220>
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<210> 19196
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<400> 19196
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<210> 19197
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<210> 19198
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<400> 19198
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<220>
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<400> 19199
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<400> 19200
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<220>
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<220>
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<210> 19204
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<210> 19210
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<400> 19210
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<210> 19211
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<210> 19212
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<220>
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<400> 19212
ggccugcccc cacccggcag ccuc 24

<210> 19213
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<400> 19214
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<210> 19215
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<400> 19215
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<400> 19216
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<210> 19218
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<210> 19226
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<400> 19226
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<210> 19227
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<220>
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<400> 19227
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<210> 19231
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<400> 19231
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<210> 19232
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<400> 19232
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<210> 19238
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<220>
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<210> 19239
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<400> 19244
agguguccca gagccagggg uc 22

<210> 19245
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<220>
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<400> 19245
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<210> 19246
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<400> 19246
ucaggugucc cagagccagg gguc 24

<210> 19247
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<220>
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<210> 19248
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<220>
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<220>
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<220>
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<400> 19250
gggguccc gg agcgaggggu c 21

<210> 19251
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<220>
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<400> 19251
aggggucccg gagcgagggg uc 22

<210> 19252
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<220>
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<400> 19252
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<210> 19253
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<400> 19253
ccaggggucc cggagcgagg gguc 24

<210> 19254
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<400> 19254
acguggaugu ggaggaag 18

<210> 19255
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<220>
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<400> 19255
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<210> 19256
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<220>
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<400> 19256
ccacguggau guggaggaag 20

<210> 19257
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<220>
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<400> 19257
cccacgugga uguggaggaa g 21

<210> 19258
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<220>
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<400> 19258
gcccacgugg auguggagga ag 22

<210> 19259
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<220>
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<400> 19259
cgcccacgug gauguggagg aag 23

<210> 19260
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<220>
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<400> 19260
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<210> 19261
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<220>
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<400> 19261
cagugagcag agacacag 18

<210> 19262
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<220>
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<400> 19262
gcagugagca gagacacag 19

<210> 19263
<211> 20
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<220>
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<400> 19263
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<210> 19264
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<220>
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<400> 19264
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<210> 19265
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<400> 19265
acagcaguga gcagagacac ag 22

<210> 19266
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<400> 19266
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<210> 19267
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<220>
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<400> 19267
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<210> 19268
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<220>
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<400> 19268
ccaggaaccu gagcccag 18

<210> 19269
<211> 19
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<220>
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<400> 19269
cccaggaacc ugagcccag 19

<210> 19270
<211> 20
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<220>
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<400> 19270
gcccaggaac cugagcccag 20

<210> 19271
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<220>
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<400> 19271
agcccaggaa ccugagccca g 21

<210> 19272
<211> 22
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<220>
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<400> 19272
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<210> 19273
<211> 23
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<220>
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<400> 19273
gcagcccagg aaccugagcc cag 23

<210> 19274
<211> 24
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<220>
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<400> 19274
ugcagcccag gaaccugagc ccag 24

<210> 19275
<211> 18
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<220>
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<400> 19275
ucaccuccgc cugagcag 18

<210> 19276
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<220>
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<400> 19276
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<210> 19277
<211> 20
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<220>
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<400> 19277
gcucaccucc gccugagcag 20

<210> 19278
<211> 21
<212> RNA
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<220>
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<400> 19278
cgcucaccuc cgccugagca g 21

<210> 19279
<211> 22
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<220>
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<400> 19279
ccgcucaccu ccgccugagc ag 22

<210> 19280
<211> 23
<212> RNA
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<220>
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<400> 19289
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<210> 19290
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<220>
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<220>
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<400> 19294
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<210> 19295
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<210> 19296
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<400> 19296
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<210> 19301
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<220>
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<220>
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<210> 19310
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<400> 19311
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<210> 19312
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<220>
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<210> 19313
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<400> 19313
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<210> 19314
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<210> 19315
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<220>
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<400> 19315
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<210> 19316
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<400> 19316
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<400> 19317
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<400> 19318
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<400> 19319
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<210> 19321
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<220>
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<400> 19321
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<400> 19322
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<210> 19323
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<210> 19326
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<400> 19326
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<210> 19327
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<400> 19327
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<210> 19328
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<400> 19328
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<210> 19329
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<400> 19329
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<210> 19330
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<400> 19330
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<400> 19331
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<400> 19332
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<400> 19334
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<220>
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<210> 19344
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<220>
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<210> 19345
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<220>
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<400> 19346
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<210> 19347
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<400> 19347
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<210> 19348
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<220>
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<210> 19349
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<400> 19349
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<210> 19350
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<210> 19351
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<220>
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gggagacccc cacgggguag ggcg 24

<210> 19352
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<400> 19355
gggccaccca ccuuccccag g 21

<210> 19356
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<220>
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<400> 19356
ggggccaccc accuucccca gg 22

<210> 19357
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<210> 19358
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ucuuugcucc ugggcagg 18

<210> 19360
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<210> 19361
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<220>
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<400> 19362
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<210> 19363
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<220>
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<400> 19363
ccccucuuug cuccugggca gg 22

<210> 19364
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<400> 19364
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<210> 19365
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<400> 19365
gucccucuu ugcuccuggg cagg 24

<210> 19366
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cccucagucc cuggcagg 18

<210> 19367
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<220>
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acccucaguc ccuggcagg 19

<210> 19368
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cacccucagu cccuggcagg 20

<210> 19369
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<400> 19369
ccacccucag ucccuggcag g 21

<210> 19370
<211> 22
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<220>
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<400> 19370
uccacccuca gucccuggca gg 22

<210> 19371
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<400> 19371
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<210> 19372
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<400> 19372
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<210> 19373
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<220>
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<400> 19373
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<210> 19374
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<220>
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<400> 19374
acucucaguc ccuggcagg 19

<210> 19375
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<220>
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<400> 19375
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<210> 19376
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<400> 19376
ucacucucag ucccuggcag g 21

<210> 19377
<211> 22
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<220>
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<400> 19377
uucacucuca gucccuggca gg 22

<210> 19378
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<220>
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<400> 19378
uuucacucuc agucccuggc agg 23

<210> 19379
<211> 24
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<220>
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<400> 19379
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<210> 19380
<211> 18
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<220>
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<210> 19381
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<220>
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<400> 19381
cccacccggc agccucagg 19

<210> 19382
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<220>
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<400> 19382
ccccacccgg cagccucagg 20

<210> 19383
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<220>
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<400> 19383
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<210> 19384
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<220>
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<400> 19384
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<210> 19385
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<220>
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<400> 19385
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<210> 19386
<211> 24
<212> RNA
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<220>
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<400> 19386
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<210> 19387
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<220>
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<400> 19387
ugagcagaga cacagagg 18

<210> 19388
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<220>
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<400> 19388
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<210> 19389
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<220>
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<400> 19389
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<210> 19390
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<220>
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<400> 19390
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<210> 19391
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<220>
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<400> 19391
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<210> 19392
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<220>
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<400> 19392
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<210> 19393
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<220>
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<400> 19393
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<210> 19394
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<220>
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<400> 19394
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<210> 19395
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<220>
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<400> 19395
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<210> 19396
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<220>
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<400> 19396
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<210> 19397
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<220>
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<400> 19397
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<210> 19398
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<220>
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<400> 19398
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<210> 19399
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<220>
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<400> 19399
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<210> 19400
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<220>
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<210> 19401
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gcccacgugg auguggagg 19

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<210> 19412
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<210> 19413
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<210> 19414
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<210> 19417
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<210> 19418
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<210> 19420
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<400> 19421
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<210> 19422
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<210> 19427
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<210> 19428
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<210> 19429
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<210> 19433
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<210> 19434
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<400> 19434
gagcugggga gacccccacg ggg 23

<210> 19435
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<400> 19435
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<210> 19436
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<400> 19436
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<400> 19437
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<220>
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<400> 19438
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<400> 19443
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<220>
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<400> 19452
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<220>
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<210> 19464
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<210> 19466
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<210> 19467
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<210> 19468
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<210> 19469
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<210> 19470
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<400> 19470
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<210> 19471
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<210> 19472
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<220>
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<220>
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ggcccggccc ccagggagau gg 22

<210> 19476
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<220>
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<210> 19477
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<220>
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<210> 19480
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<220>
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<210> 19482
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<210> 19483
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<210> 19484
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<220>
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<400> 19484
cccccaggga gaugggggggg augg 24

<210> 19485
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<220>
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<400> 19485
gagaaggcgg cacucugg 18

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<220>
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<210> 19487
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<220>
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<400> 19487
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<220>
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<210> 19489
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<220>
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<210> 19490
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<400> 19490
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<210> 19491
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<400> 19491
gcaguggaga aggcggcacu cugg 24

<210> 19492
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<220>
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<400> 19492
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<400> 19493
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<210> 19494
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<400> 19494
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<210> 19495
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<400> 19495
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<210> 19496
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<220>
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<400> 19496
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<210> 19497
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<220>
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<400> 19497
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<210> 19498
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<220>
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<400> 19498
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<210> 19499
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<220>
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<400> 19499
ccggagcgag gggucugg 18

<210> 19500
<211> 19
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<220>
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<400> 19500
cccggagcga ggggucugg 19

<210> 19501
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<220>
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<400> 19501
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<210> 19502
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<220>
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<400> 19502
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<210> 19503
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<220>
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<400> 19503
ggucccggag cgaggggucu gg 22

<210> 19504
<211> 23
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<220>
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<400> 19504
gggucccgga gcgagggguc ugg 23

<210> 19505
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<220>
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<400> 19505
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<210> 19506
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<220>
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<400> 19506
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<210> 19507
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<220>
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<210> 19508
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<220>
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<400> 19508
ucucgcccac guggaugugg 20

<210> 19509
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<220>
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<400> 19509
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<210> 19510
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<220>
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<400> 19510
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<210> 19511
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<220>
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<400> 19511
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<210> 19512
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<220>
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<400> 19512
ucacucucgc ccacguggau gugg 24

<210> 19513
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<220>
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<400> 19513
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<210> 19514
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<220>
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<400> 19514
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<210> 19515
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<220>
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<400> 19515
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<220>
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<400> 19516
ggcccggccc ccagggagau g 21

<210> 19517
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<220>
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<400> 19517
aggcccggcc cccagggaga ug 22

<210> 19518
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<220>
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<400> 19518
gaggcccggc ccccagggag aug 23

<210> 19519
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<220>
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<400> 19519
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<210> 19520
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<220>
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<400> 19520
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<210> 19521
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<220>
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<210> 19532
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<210> 19533
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<210> 19534
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<210> 19540
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<210> 19545
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<210> 19546
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<210> 19547
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<210> 19548
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<400> 19548
cccagagcca ggggucug 18

<210> 19549
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<220>
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ucccagagcc aggggucug 19

<210> 19550
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<220>
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<210> 19552
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<210> 19553
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<210> 19554
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<400> 19554
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<210> 19555
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<220>
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<400> 19555
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<210> 19556
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<220>
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<210> 19557
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<220>
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<210> 19558
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<210> 19559
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<210> 19560
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<210> 19561
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<210> 19562
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<220>
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<220>
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<400> 19564
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<210> 19566
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<220>
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<220>
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<210> 19568
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<210> 19569
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<400> 19573
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<210> 19574
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<220>
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<210> 19580
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<220>
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<400> 19580
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<210> 19581
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<220>
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<400> 19581
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<210> 19582
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<220>
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gucacucucg cccacgugga ugug 24

<210> 19583
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<400> 19583
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<210> 19584
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<220>
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gcccggcccc cagggagau 19

<210> 19585
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ggcccggccc ccagggagau 20

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gaggcccggc ccccagggag au 22

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<220>
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<210> 19589
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<220>
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gggaggcccg gcccccaggg agau 24

<210> 19590
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gggcagcucg ggcgggau 18

<210> 19591
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<220>
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ggggcagcuc gggcgggau 19

<210> 19592
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<210> 19593
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<210> 19594
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caggaggggc agcucgggcg ggau 24

<210> 19597
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<220>
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cagggagaug gggggggau 18

<210> 19598
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<210> 19599
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<220>
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<400> 19599
cccagggaga ugggggggau 20

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<220>
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<210> 19601
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<220>
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<210> 19602
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<220>
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gcccccaggg agaugggggg gau 23

<210> 19603
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<220>
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ggcccccagg gagaugggg ggau 24

<210> 19604
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<220>
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<400> 19604
acucucgccc acguggau 18

<210> 19605
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<220>
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<400> 19605
cacucucgcc cacguggau 19

<210> 19606
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<220>
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<400> 19606
ucacucucgc ccacguggau 20

<210> 19607
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<220>
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gucacucucg cccacgugga u 21

<210> 19608
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<220>
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<400> 19608
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<210> 19609
<211> 23
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<220>
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<210> 19610
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<400> 19610
ucugucacuc ucgcccacgu ggau 24

<210> 19611
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<400> 19611
gcccccaccc ggcagccu 18

<210> 19612
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<400> 19612
ugcccccacc cggcagccu 19

<210> 19613
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<220>
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<400> 19613
cugcccccac ccggcagccu 20

<210> 19614
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<212> RNA
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<220>
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<400> 19614
ccugccccca cccggcagcc u 21

<210> 19615
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<212> RNA
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<220>
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<400> 19615
gccugccccc acccggcagc cu 22

<210> 19616
<211> 23
<212> RNA
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<220>
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<400> 19616
ggccugcccc cacccggcag ccu 23

<210> 19617
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<400> 19617
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<210> 19618
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<220>
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<400> 19618
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<210> 19619
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<220>
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<400> 19619
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<210> 19620
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<212> RNA
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<220>
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<400> 19620
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<210> 19621
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<220>
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<400> 19621
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<210> 19622
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<220>
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<400> 19622
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<210> 19623
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<220>
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<400> 19623
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<210> 19624
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<220>
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<400> 19624
cucugucccc ucucagccgg uccu 24

<210> 19625
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<220>
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<400> 19625
aggaaggggc ccugagcu 18

<210> 19626
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<220>
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<400> 19626
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<210> 19627
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<220>
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<400> 19627
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<210> 19628
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<220>
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<400> 19628
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<210> 19629
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<220>
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<210> 19630
<211> 23
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<220>
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<400> 19630
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<210> 19631
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<400> 19631
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<210> 19632
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<220>
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<400> 19632
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<210> 19633
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<220>
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<400> 19633
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<210> 19634
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<220>
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<400> 19634
uuacccugag cuguguggcu 20

<210> 19635
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<400> 19635
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<210> 19636
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<220>
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<400> 19636
ccuuacccug agcugugugg cu 22

<210> 19637
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<220>
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<400> 19637
cccuuacccu gagcugugug gcu 23

<210> 19638
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<220>
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<400> 19638
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<210> 19639
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<220>
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<400> 19639
gaacuccugg guuccucu 18

<210> 19640
<211> 19
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<220>
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<400> 19640
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<210> 19641
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<220>
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<400> 19641
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<210> 19642
<211> 21
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<210> 19643
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<400> 19643
gcucgaacuc cuggguuccu cu 22

<210> 19644
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<212> RNA
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<400> 19644
agcucgaacu ccuggguucc ucu 23

<210> 19645
<211> 24
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<220>
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<400> 19645
cagcucgaac uccuggguuc cucu 24

<210> 19646
<211> 18
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<400> 19646
ccccacgggg uagggcgu 18

<210> 19647
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<220>
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<400> 19647
cccccacggg guagggcgu 19

<210> 19648
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<220>
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<400> 19648
acccccacgg gguagggcgu 20

<210> 19649
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<220>
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<400> 19649
gacccccacg ggguagggcg u 21

<210> 19650
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<212> RNA
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<220>
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<400> 19650
agacccccac gggguagggc gu 22

<210> 19651
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<212> RNA
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<220>
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<400> 19651
gagaccccca cgggguaggg cgu 23

<210> 19652
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<220>
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<400> 19652
ggagaccccc acgggguagg gcgu 24

<210> 19653
<211> 18
<212> RNA
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<220>
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<400> 19653
ggcgcccugg ccagucgu 18

<210> 19654
<211> 19
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<220>
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<400> 19654
aggcgcccug gccagucgu 19

<210> 19655
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<220>
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<400> 19655
caggcgcccu ggccagucgu 20

<210> 19656
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<220>
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<400> 19656
acaggcgccc uggccagucg u 21

<210> 19657
<211> 22
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<220>
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<400> 19657
cacaggcgcc cuggccaguc gu 22

<210> 19658
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<212> RNA
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<220>
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<400> 19658
ccacaggcgc ccuggccagu cgu 23

<210> 19659
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-3757

<400> 19659
cccacaggcg cccuggccag ucgu 24

<210> 19660
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6077

<400> 19660
ccucaguccc uggcaggu 18

<210> 19661
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<220>
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<400> 19661
cccucagucc cuggcaggu 19

<210> 19662
<211> 20
<212> RNA
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<220>
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<400> 19662
acccucaguc ccuggcaggu 20

<210> 19663
<211> 21
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6079

<400> 19663
cacccucagu cccuggcagg u 21

<210> 19664
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6080

<400> 19664
ccacccucag ucccuggcag gu 22

<210> 19665
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6081

<400> 19665
uccacccuca gucccuggca ggu 23

<210> 19666
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6082

<400> 19666
uuccacccuc agucccuggc aggu 24

<210> 19667
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6083

<400> 19667
ucucaguccc uggcaggu 18

<210> 19668
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6084

<400> 19668
cucucagucc cuggcaggu 19

<210> 19669
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<212> RNA
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<220>
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<400> 19669
acucucaguc ccuggcaggu 20

<210> 19670
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<212> RNA
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<220>
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<400> 19670
cacucucagu cccuggcagg u 21

<210> 19671
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<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6086

<400> 19671
ucacucucag ucccuggcag gu 22

<210> 19672
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6087

<400> 19672
uucacucuca gucccuggca ggu 23

<210> 19673
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6088

<400> 19673
uuucacucuc agucccuggc aggu 24

<210> 19674
<211> 18
<212> RNA
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<220>
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<400> 19674
ugucccagag ccaggggu 18

<210> 19675
<211> 19
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<220>
<223> Synthetic oligonucleotide: PDCD1-6090

<400> 19675
gugucccaga gccaggggu 19

<210> 19676
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<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-1439

<400> 19676
ggugucccag agccaggggu 20

<210> 19677
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6091

<400> 19677
agguguccca gagccagggg u 21

<210> 19678
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6092

<400> 19678
cagguguccc agagccaggg gu 22

<210> 19679
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6093

<400> 19679
ucaggugucc cagagccagg ggu 23

<210> 19680
<211> 24
<212> RNA

<213> Artificial Sequence

<220>
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<400> 19680
gucagguguc ccagagccag gggu 24

<210> 19681
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6095

<400> 19681
ggucccggag cgaggggu 18

<210> 19682
<211> 19
<212> RNA
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<220>
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<400> 19682
gggucccgga gcgaggggu 19

<210> 19683
<211> 20
<212> RNA
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<220>
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<400> 19683
ggggucccgg agcgaggggu 20

<210> 19684
<211> 21
<212> RNA
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<220>
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<400> 19684
aggggucccg gagcgagggg u 21

<210> 19685
<211> 22
<212> RNA
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<220>
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<400> 19685
cagggguccc ggagcgaggg gu 22

<210> 19686
<211> 23
<212> RNA
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<220>
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<400> 19686
ccaggggucc cggagcgagg ggu 23

<210> 19687
<211> 24
<212> RNA
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<220>
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<400> 19687
cccagggguc ccggagcgag gggu 24

<210> 19688
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6101

<400> 19688
gagggccagc cgggcaca 18

<210> 19689
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6102

<400> 19689
agagggccag ccgggcaca 19

<210> 19690
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-1665

<400> 19690
cagagggcca gccgggcaca 20

<210> 19691
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6103

<400> 19691
acagagggcc agccgggcac a 21

<210> 19692
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6104

<400> 19692
cacagagggc cagccgggca ca 22

<210> 19693
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6105

<400> 19693
gcacagaggg ccagccgggc aca 23

<210> 19694
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6106

<400> 19694
ggcacagagg gccagccggg caca 24

<210> 19695
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6107

<400> 19695
guaauaaaau gcucagca 18

<210> 19696
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6108

<400> 19696
uguaauaaaa ugcucagca 19

<210> 19697
<211> 20
<212> RNA

<213> Artificial Sequence

<220>
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<400> 19697
cuguaauaaa augcucagca 20

<210> 19698
<211> 21
<212> RNA
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<220>
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<400> 19698
gcuguaauaa aaugcucagc a 21

<210> 19699
<211> 22
<212> RNA
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<220>
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<400> 19699
cgcuguaaua aaaugcucag ca 22

<210> 19700
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6111

<400> 19700
ucgcuguaau aaaaugcuca gca 23

<210> 19701
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6112

<400> 19701
uucgcuguaa uaaaaugcuc agca 24

<210> 19702
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6113

<400> 19702
ucccauccuu aggaaaac 18

<210> 19703
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6114

<400> 19703
aucccauccu uaggaaaac 19

<210> 19704
<211> 20
<212> RNA
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<220>
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<400> 19704
caucccaucc uuaggaaaac 20

<210> 19705
<211> 21
<212> RNA
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<220>
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<400> 19705
ucaucccauc cuuaggaaaa c 21

<210> 19706
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19706
cucaucccau ccuuaggaaa ac 22

<210> 19707
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6117

<400> 19707
gcucauccca uccuuaggaa aac 23

<210> 19708
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19708
ggcucauccc auccuuagga aaac 24

<210> 19709
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6119

<400> 19709
aaaacucgag ugaggacc 18

<210> 19710
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6120

<400> 19710
gaaaacucga gugaggacc 19

<210> 19711
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-1713

<400> 19711
ggaaaacucg agugaggacc 20

<210> 19712
<211> 21
<212> RNA
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<220>
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<400> 19712
aggaaaacuc gagugaggac c 21

<210> 19713
<211> 22
<212> RNA
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<220>
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<400> 19713
uaggaaaacu cgagugagga cc 22

<210> 19714
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6123

<400> 19714
uuaggaaaac ucgagugagg acc 23

<210> 19715
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19715
cuuaggaaaa cucgagugag gacc 24

<210> 19716
<211> 18
<212> RNA
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<220>
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<400> 19716
gaggccaagg ccucccccc 18

<210> 19717
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6126

<400> 19717
ugaggccaag gccucccccc 19

<210> 19718
<211> 20
<212> RNA
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<220>
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<400> 19718
gugaggccaa ggccucccccc 20

<210> 19719
<211> 21
<212> RNA
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<220>
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<400> 19719
agugaggcca aggccucccc c 21

<210> 19720
<211> 22
<212> RNA
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<220>
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<400> 19720
gagugaggcc aaggccuccc cc 22

<210> 19721
<211> 23
<212> RNA
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<220>
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<400> 19721
agagugaggc caaggccucc ccc 23

<210> 19722
<211> 24
<212> RNA
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<220>
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<400> 19722
gagagugagg ccaaggccuc cccc 24

<210> 19723
<211> 18
<212> RNA
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<220>
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<400> 19723
agggcucggg gagagccc 18

<210> 19724
<211> 19
<212> RNA
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<220>
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<400> 19724
cagggcucgg ggagagccc 19

<210> 19725
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19725
acagggcucg gggagagccc 20

<210> 19726
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19726
aacagggcuc ggggagagcc c 21

<210> 19727
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19727
gaacagggcu cggggagagc cc 22

<210> 19728
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19728
ugaacagggc ucggggagag ccc 23

<210> 19729
<211> 24
<212> RNA
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<220>
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<400> 19729
cugaacaggg cucggggaga gccc 24

<210> 19730
<211> 18
<212> RNA
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<220>
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<400> 19730
caguguacac agagggcc 18

<210> 19731
<211> 19
<212> RNA

<213> Artificial Sequence

<220>
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<400> 19731
acaguguaca cagagggcc 19

<210> 19732
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-1671

<400> 19732
cacaguguac acagagggcc 20

<210> 19733
<211> 21
<212> RNA
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<220>
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<400> 19733
ucacagugua cacagagggc c 21

<210> 19734
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19734
gucacagugu acacagaggg cc 22

<210> 19735
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19735
ggucacagug uacacagagg gcc 23

<210> 19736
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19736
uggucacagu guacacagag ggcc 24

<210> 19737
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6143

<400> 19737
gaaccacccc acccuggc 18

<210> 19738
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6144

<400> 19738
ugaaccaccc cacccuggc 19

<210> 19739
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-1959

<400> 19739
cugaaccacc ccacccuggc 20

<210> 19740
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19740
ccugaaccac cccacccugg c 21

<210> 19741
<211> 22
<212> RNA
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<220>
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<400> 19741
cccugaacca ccccacccug gc 22

<210> 19742
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6147

<400> 19742
ccccugaacc accccacccu ggc 23

<210> 19743
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19743
cccccugaac caccccaccc uggc 24

<210> 19744
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6149

<400> 19744
accugugccc cagcgaag 18

<210> 19745
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6150

<400> 19745
caccugugcc ccagcgaag 19

<210> 19746
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-3022

<400> 19746
ucaccugugc cccagcgaag 20

<210> 19747
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6151

<400> 19747
gucaccugug ccccagcgaa g 21

<210> 19748
<211> 22
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6152

<400> 19748
ggucaccugu gccccagcga ag 22

<210> 19749
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6153

<400> 19749
gggucaccug ugccccagcg aag 23

<210> 19750
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6154

<400> 19750
agggucaccu gugccccagc gaag 24

<210> 19751
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6155

<400> 19751
uggacaguug ucauucag 18

<210> 19752
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6156

<400> 19752
auggacaguu gucauucag 19

<210> 19753
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-1928

<400> 19753
cauggacagu ugucauucag 20

<210> 19754
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19754
ccauggacag uugucauuca g 21

<210> 19755
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6158

<400> 19755
gccauggaca guugucauuc ag 22

<210> 19756
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6159

<400> 19756
agccauggac aguugucauu cag 23

<210> 19757
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6160

<400> 19757
uagccaugga caguugucau ucag 24

<210> 19758
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6161

<400> 19758
gcacaauccc cacccagg 18

<210> 19759
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6162

<400> 19759
ggcacaaucc ccacccagg 19

<210> 19760
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19760
gggcacaauc cccacccagg 20

<210> 19761
<211> 21
<212> RNA
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<220>
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<400> 19761
cgggcacaau ccccacccag g 21

<210> 19762
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19762
gcgggcacaa uccccaccca gg 22

<210> 19763
<211> 23
<212> RNA
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<220>
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<400> 19763
ggcgggcaca auccccaccc agg 23

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<400> 19764
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<210> 19765
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<220>
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<400> 19765
ccucucuccu cgauccgg 18

<210> 19766
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<220>
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<400> 19766
cccucucucc ucgauccgg 19

<210> 19767
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<220>
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<400> 19767
ucccucucuc cucgauccgg 20

<210> 19768
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<220>
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<400> 19768
cucccucucu ccucgauccg g 21

<210> 19769
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6170

<400> 19769
gcucccucuc uccucgaucc gg 22

<210> 19770
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<220>
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<400> 19770
ggcucccucu cuccucgauc cgg 23

<210> 19771
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<220>
<223> Synthetic oligonucleotide: PDCD1-6172

<400> 19771
aggcucccuc ucuccucgau ccgg 24

<210> 19772
<211> 18
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<220>
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<400> 19772
cacucgaaca gguacacu 18

<210> 19773
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<220>
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<400> 19773
ucacucgaac agguacacu 19

<210> 19774
<211> 20
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<220>
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<400> 19774
cucacucgaa cagguacacu 20

<210> 19775
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<220>
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<400> 19775
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<210> 19776
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<220>
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<400> 19776
uccucacucg aacagguaca cu 22

<210> 19777
<211> 23
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<220>
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<400> 19777
guccucacuc gaacagguac acu 23

<210> 19778
<211> 24
<212> RNA
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<220>
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<400> 19778
uguccucacu cgaacaggua cacu 24

<210> 19779
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6179

<400> 19779
cuccccacgg ccaagguu 18

<210> 19780
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<220>
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<400> 19780
acuccccacg gccaagguu 19

<210> 19781
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<220>
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<400> 19781
gacuccccac ggccaagguu 20

<210> 19782
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<220>
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<400> 19782
agacucccca cggccaaggu u 21

<210> 19783
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<220>
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<400> 19783
cagacucccc acggccaagg uu 22

<210> 19784
<211> 23
<212> RNA
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<220>
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<400> 19784
gcagacuccc cacggccaag guu 23

<210> 19785
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6184

<400> 19785
cgcagacucc ccacggccaa gguu 24

<210> 19786
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6185

<400> 19786
gcugagcauu uuauuaca 18

<210> 19787
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6186

<400> 19787
ugcugagcau uuuauuaca 19

<210> 19788
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-1748

<400> 19788
gugcugagca uuuuauuaca 20

<210> 19789
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6187

<400> 19789
ugugcugagc auuuuauuac a 21

<210> 19790
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<220>
<223> Synthetic oligonucleotide: PDCD1-6188

<400> 19790
cugugcugag cauuuuauua ca 22

<210> 19791
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<220>
<223> Synthetic oligonucleotide: PDCD1-6189

<400> 19791
ucugugcuga gcauuuuauu aca 23

<210> 19792
<211> 24
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<220>
<223> Synthetic oligonucleotide: PDCD1-6190

<400> 19792
uucugugcug agcauuuuau uaca 24

<210> 19793
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<220>
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<400> 19793
ccaggguggg gugguuca 18

<210> 19794
<211> 19
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<220>
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<400> 19794
gccagggugg ggugguuca 19

<210> 19795
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<212> RNA
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<220>
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<400> 19795
ugccagggug ggguggguuca 20

<210> 19796
<211> 21
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<220>
<223> Synthetic oligonucleotide: PDCD1-6193

<400> 19796
gugccagggu gggguggguuc a 21

<210> 19797
<211> 22
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<220>
<223> Synthetic oligonucleotide: PDCD1-6194

<400> 19797
cgugccaggg ugggguggguu ca 22

<210> 19798
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6195

<400> 19798
ucgugccagg guggguggguu uca 23

<210> 19799
<211> 24
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6196

<400> 19799
cucgugccag gguggggugg uuca 24

<210> 19800
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6197

<400> 19800
cucgaguuuu ccuaagga 18

<210> 19801
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6198

<400> 19801
acucgaguuu uccuaagga 19

<210> 19802
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-2996

<400> 19802
cacucgaguu uuccuaagga 20

<210> 19803
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6199

<400> 19803
ucacucgagu uuuccuaagg a 21

<210> 19804
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6200

<400> 19804
cucacucgag uuuuccuaag ga 22

<210> 19805
<211> 23
<212> RNA
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<220>
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<400> 19805
ccucacucga guuuuccuaa gga 23

<210> 19806
<211> 24
<212> RNA
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<220>
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<400> 19806
uccucacucg aguuuuccua agga 24

<210> 19807
<211> 18
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<220>
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<400> 19807
ggggcacagg ugacccua 18

<210> 19808
<211> 19
<212> RNA
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<220>
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<400> 19808
uggggcacag gugacccua 19

<210> 19809
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<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-1725

<400> 19809
cuggggcaca ggugacccua 20

<210> 19810
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6205

<400> 19810
gcuggggcac aggugacccu a 21

<210> 19811
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6206

<400> 19811
cgcuggggca caggugaccc ua 22

<210> 19812
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6207

<400> 19812
ucgcuggggc acaggugacc cua 23

<210> 19813
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6208

<400> 19813
uucgcugggg cacaggugac ccua 24

<210> 19814
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6209

<400> 19814
ggcauccuug guccucac 18

<210> 19815
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6210

<400> 19815
aggcauccuu gguccucac 19

<210> 19816
<211> 20
<212> RNA

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<220>
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<400> 19816
caggcauccu ugguccucac 20

<210> 19817
<211> 21
<212> RNA
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<220>
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<400> 19817
ccaggcaucc uugguccuca c 21

<210> 19818
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6212

<400> 19818
cccaggcauc cuugguccuc ac 22

<210> 19819
<211> 23
<212> RNA
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<220>
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<400> 19819
gcccaggcau ccuugguccu cac 23

<210> 19820
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6214

<400> 19820
ugcccaggca uccuuggucc ucac 24

<210> 19821
<211> 18
<212> RNA
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<220>
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<400> 19821
gguggggauu gugcccgc 18

<210> 19822
<211> 19
<212> RNA
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<220>
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<400> 19822
ggguggggau ugugcccgc 19

<210> 19823
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<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-1886

<400> 19823
uggguggga uugugcccgc 20

<210> 19824
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<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6217

<400> 19824
cuggguggg auugugcccg c 21

<210> 19825
<211> 22
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<220>
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<400> 19825
ccuggguggg gauugugccc gc 22

<210> 19826
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<220>
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<400> 19826
uccugggugg ggauugugcc cgc 23

<210> 19827
<211> 24
<212> RNA
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<220>
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<400> 19827
cuccugggug gggauugugc ccgc 24

<210> 19828
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<220>
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<400> 19828
ccuccagccc acucgugc 18

<210> 19829
<211> 19
<212> RNA
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<220>
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<400> 19829
cccuccagcc cacucgugc 19

<210> 19830
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<212> RNA
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<220>
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<400> 19830
gcccuccagc ccacucgugc 20

<210> 19831
<211> 21
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<220>
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<400> 19831
ugcccuccag cccacucgug c 21

<210> 19832
<211> 22
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<220>
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<400> 19832
cugcccucca gcccacucgu gc 22

<210> 19833
<211> 23
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<213> Artificial Sequence

<220>
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<400> 19833
ccugcccucc agcccacucg ugc 23

<210> 19834
<211> 24
<212> RNA
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<220>
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<400> 19834
cccugcccuc cagcccacuc gugc 24

<210> 19835
<211> 18
<212> RNA
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<220>
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<400> 19835
cugucuccag gaucccuc 18

<210> 19836
<211> 19
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<220>
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<400> 19836
ucugucucca ggaucccuc 19

<210> 19837
<211> 20
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<220>
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<400> 19837
uucugucucc aggaucccuc 20

<210> 19838
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<220>
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<400> 19838
cuucugucuc caggaucccu c 21

<210> 19839
<211> 22
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<220>
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<400> 19839
ucuucugucu ccaggauccc uc 22

<210> 19840
<211> 23
<212> RNA
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<220>
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<400> 19840
uucuucuguc uccaggaucc cuc 23

<210> 19841
<211> 24
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<220>
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<400> 19841
guucuucugu cuccaggauc ccuc 24

<210> 19842
<211> 18
<212> RNA
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<220>
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<400> 19842
ggccuuggcc ucacucuc 18

<210> 19843
<211> 19
<212> RNA
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<220>
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<400> 19843
aggccuuggc cucacucuc 19

<210> 19844
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-1878

<400> 19844
gaggccuugg ccucacucuc 20

<210> 19845
<211> 21
<212> RNA
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<220>
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<400> 19845
ggaggccuug gccucacucu c 21

<210> 19846
<211> 22
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<220>
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<400> 19846
gggaggccuu ggccucacuc uc 22

<210> 19847
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<220>
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<400> 19847
ggggaggccu uggccucacu cuc 23

<210> 19848
<211> 24
<212> RNA
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<220>
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<400> 19848
gggggaggcc uuggccucac ucuc 24

<210> 19849
<211> 18
<212> RNA
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<220>
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<400> 19849
ggacaguucu ucugucuc 18

<210> 19850
<211> 19
<212> RNA

<213> Artificial Sequence

<220>
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<400> 19850
aggacaguuc uucugucuc 19

<210> 19851
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-1891

<400> 19851
gaggacaguu cuucugucuc 20

<210> 19852
<211> 21
<212> RNA
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<220>
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<400> 19852
ugaggacagu ucuucugucu c 21

<210> 19853
<211> 22
<212> RNA
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<220>
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<400> 19853
gugaggacag uucuucuguc uc 22

<210> 19854
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6243

<400> 19854
agugaggaca guucuucugu cuc 23

<210> 19855
<211> 24
<212> RNA
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<220>
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<400> 19855
gagugaggac aguucuucug ucuc 24

<210> 19856
<211> 18
<212> RNA
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<220>
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<400> 19856
agcccacucg ugccaggg 18

<210> 19857
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6246

<400> 19857
cagcccacuc gugccaggg 19

<210> 19858
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19858
ccagcccacu cgugccaggg 20

<210> 19859
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19859
uccagcccac ucgugccagg g 21

<210> 19860
<211> 22
<212> RNA
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<220>
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<400> 19860
cuccagccca cucgugccag gg 22

<210> 19861
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19861
ccuccagccc acucgugcca ggg 23

<210> 19862
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19862
cccuccagcc cacucgugcc aggg 24

<210> 19863
<211> 18
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<213> Artificial Sequence

<220>
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<400> 19863
ccccaaaccu uggccgug 18

<210> 19864
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<212> RNA
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<220>
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<400> 19864
accccaaacc uuggccgug 19

<210> 19865
<211> 20
<212> RNA
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<220>
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<400> 19865
aaccccaaac cuuggccgug 20

<210> 19866
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6253

<400> 19866
gaaccccaaa ccuuggccgu g 21

<210> 19867
<211> 22
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6254

<400> 19867
agaaccccaa accuuggccg ug 22

<210> 19868
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6255

<400> 19868
cagaacccca aaccuuggcc gug 23

<210> 19869
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PDCD1-6256

<400> 19869
ccagaacccc aaaccuuggc cgug 24

<210> 19870
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: PDCD1-6257

<400> 19870
cccagccagc cugcaccu 18

<210> 19871
<211> 19
<212> RNA
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<220>
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<400> 19871
gcccagccag ccugcaccu 19

<210> 19872
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19872
ugcccagcca gccugcaccu 20

<210> 19873
<211> 21
<212> RNA
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<220>
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<400> 19873
gugcccagcc agccugcacc u 21

<210> 19874
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19874
ugugcccagc cagccugcac cu 22

<210> 19875
<211> 23
<212> RNA
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<220>
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<400> 19875
cugugcccag ccagccugca ccu 23

<210> 19876
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19876
ucugugccca gccagccugc accu 24

<210> 19877
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19877
ccucacucga guuuuccu 18

<210> 19878
<211> 19
<212> RNA
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<220>
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<400> 19878
uccucacucg aguuuuccu 19

<210> 19879
<211> 20
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<220>
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<400> 19879
guccucacuc gaguuuuccu 20

<210> 19880
<211> 21
<212> RNA
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<220>
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<400> 19880
gguccucacu cgaguuuucc u 21

<210> 19881
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19881
ugguccucac ucgaguuuuc cu 22

<210> 19882
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
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<400> 19882
uugguccuca cucgaguuuu ccu 23

<210> 19883
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
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ccaggauccc uccugggu 18

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<210> 19887
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<210> 19888
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<400> 19888
gucuccagga ucccuccugg gu 22

<210> 19889
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ugucuccagg aucccuccug ggu 23

<210> 19890
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cugucuccag gaucccuccu gggu 24

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auauccaaag uguaccugu 19

<210> 19893
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uauauccaaa guguaccugu 20

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uuauauccaa aguguaccug u 21

<210> 19895
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auuauaucca aaguguaccu gu 22

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<210> 19897
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<210> 19898
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ccucaaagcu uccaccuu 18

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<220>
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cccucaaagc uuccaccuu 19

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<220>
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<220>
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<210> 19902
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<210> 19903
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<210> 19904
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<210> 19905
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caccugugcc ccagcgaa 18

<210> 19906
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<220>
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<400> 19907
gucaccugug ccccagcgaa 20

<210> 19908
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ggucaccugu gccccagcga a 21

<210> 19909
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<220>
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gggucaccug ugccccagcg aa 22

<210> 19910
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<210> 19911
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<220>
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<400> 19911
uagggucacc ugugccccag cgaa 24

<210> 19912
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agaaggucaa ggcuggaa 18

<210> 19913
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<400> 19913
aagaagguca aggcuggaa 19

<210> 19914
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gaagaagguc aaggcuggaa 20

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ggaagaaggu caaggcugga a 21

<210> 19916
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<220>
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<400> 19916
gggaagaagg ucaaggcugg aa 22

<210> 19917
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<220>
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<400> 19917
ggggaagaag gucaaggcug gaa 23

<210> 19918
<211> 24
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<220>
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<400> 19918
cggggaagaa ggucaaggcu ggaa 24

<210> 19919
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<220>
<223> Synthetic oligonucleotide: PDCD1-6299

<400> 19919
ccccacggau ggucugaa 18

<210> 19920
<211> 19
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<220>
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<400> 19920
cccccacgga uggucugaa 19

<210> 19921
<211> 20
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<220>
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<400> 19921
ucccccacgg auggucugaa 20

<210> 19922
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<220>
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<400> 19922
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<210> 19923
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<400> 19923
ccucccccac ggauggucug aa 22

<210> 19924
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<220>
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<400> 19924
gccucccccа cggauggucu gaa 23

<210> 19925
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<400> 19925
ggccucccccc acggaugguc ugaa 24

<210> 19926
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<220>
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<400> 19926
guggucacag uguacaca 18

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<220>
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<220>
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cuguggucac aguguacaca 20

<210> 19929
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<400> 19929
gcugugguca caguguacac a 21

<210> 19930
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<220>
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<400> 19930
ggcugugguc acaguguaca ca 22

<210> 19931
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<400> 19931
gggcuguggu cacaguguac aca 23

<210> 19932
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<400> 19932
cgggcugugg ucacagugua caca 24

<210> 19933
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<400> 19934
agccaagguu agucccaca 19

<210> 19935
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<210> 19936
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aaagccaagg uuagucccac a 21

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<210> 19939
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<210> 19940
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gugcaggcug gcugggcaca 20

<210> 19943
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<400> 19943
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<210> 19944
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<210> 19945
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<210> 19946
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<400> 19946
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<210> 19947
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<400> 19947
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<210> 19948
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<220>
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augcucagca cagaauaca 19

<210> 19949
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<220>
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<210> 19950
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<210> 19951
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<220>
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<400> 19951
aaaaugcuca gcacagaaua ca 22

<210> 19952
<211> 23
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<213> Artificial Sequence

<220>
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<400> 19952
uaaaaugcuc agcacagaau aca 23

<210> 19953
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<220>
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<400> 19953
auaaaaugcu cagcacagaa uaca 24

<210> 19954
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<220>
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<400> 19954
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<210> 19955
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<210> 19956
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<400> 19956
ggcugugguc acaguguaca 20

<210> 19957
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<220>
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<400> 19957
gggcuguggu cacaguguac a 21

<210> 19958
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<220>
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<400> 19958
cgggcugugg ucacagugua ca 22

<210> 19959
<211> 23
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<220>
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<400> 19959
gcgggcugug gucacagugu aca 23

<210> 19960
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<212> RNA
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<220>
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<400> 19960
agcgggcugu ggucacagug uaca 24

<210> 19961
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<220>
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<400> 19961
agggucaccu gugcccca 18

<210> 19962
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<220>
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<400> 19962
uagggucacc ugugcccca 19

<210> 19963
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<220>
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<400> 19963
guagggucac cugugcccca 20

<210> 19964
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<220>
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aguaggguca ccugugcccc a 21

<210> 19965
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<212> RNA
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<220>
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<400> 19965
caguaggguc accugugccc ca 22

<210> 19966
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<220>
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<400> 19966
ucaguagggu caccugugcc cca 23

<210> 19967
<211> 24
<212> RNA
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<220>
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<400> 19967
uucaguaggg ucaccugugc ccca 24

<210> 19968
<211> 18
<212> RNA
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<220>
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<400> 19968
gccagccagg cccaggca 18

<210> 19969
<211> 19
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<220>
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<400> 19969
cgccagccag gcccaggca 19

<210> 19970
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<220>
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<400> 19970
ccgccagcca ggcccaggca 20

<210> 19971
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<220>
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<400> 19971
gccgccagcc aggcccaggc a 21

<210> 19972
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<220>
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<400> 19972
ggccgccagc caggcccagg ca 22

<210> 19973
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<220>
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<400> 19973
gggccgccag ccaggcccag gca 23

<210> 19974
<211> 24
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<220>
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<400> 19974
cgggccgcca gccaggccca ggca 24

<210> 19975
<211> 18
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<220>
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<400> 19975
cagagggcca gccgggca 18

<210> 19976
<211> 19
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<220>
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<400> 19976
acagagggcc agccgggca 19

<210> 19977
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<220>
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<400> 19977
cacagagggc cagccgggca 20

<210> 19978
<211> 21
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<220>
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<400> 19978
gcacagaggg ccagccgggc a 21

<210> 19979
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<220>
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<400> 19979
ggcacagagg gccagccggg ca 22

<210> 19980
<211> 23
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<220>
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<400> 19980
gggcacagag ggccagccgg gca 23

<210> 19981
<211> 24
<212> RNA
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<220>
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<400> 19981
ugggcacaga gggccagccg ggca 24

<210> 19982
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<220>
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<400> 19982
gugcaggcug gcugggca 18

<210> 19983
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<220>
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<400> 19983
ggugcaggcu ggcugggca 19

<210> 19984
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<220>
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<400> 19984
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<210> 19985
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<220>
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<400> 19985
caggugcagg cuggcugggc a 21

<210> 19986
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<220>
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<400> 19986
ccaggugcag gcuggcuggg ca 22

<210> 19987
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<220>
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<400> 19987
cccaggugca ggcuggcugg gca 23

<210> 19988
<211> 24
<212> RNA
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<220>
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<400> 19988
ccccaggugc aggcuggcug ggca 24

<210> 19989
<211> 18
<212> RNA
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<220>
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<400> 19989
ucuccucgau ccgggaga 18

<210> 19990
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<220>
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<400> 19990
cucuccucga uccgggaga 19

<210> 19991
<211> 20
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<220>
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<400> 19991
ucucuccucg auccgggaga 20

<210> 19992
<211> 21
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<220>
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<400> 19992
cucucuccuc gauccgggag a 21

<210> 19993
<211> 22
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<220>
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<400> 19993
ccucucuccu cgauccggga ga 22

<210> 19994
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<220>
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<400> 19994
cccucucucc ucgauccggg aga 23

<210> 19995
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<220>
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<400> 19995
ucccucucuc cucgauccgg gaga 24

<210> 19996
<211> 18
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<220>
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<400> 19996
caggagggau ccuggaga 18

<210> 19997
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<220>
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<400> 19997
ccaggaggga uccuggaga 19

<210> 19998
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<220>
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<400> 19998
cccaggaggg auccuggaga 20

<210> 19999
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<220>
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<400> 19999
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<210> 20000
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<220>
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<400> 20000
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<210> 20001
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<220>
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<400> 20001
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<210> 20002
<211> 24
<212> RNA
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<220>
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<400> 20002
cccacccagg agggauccug gaga 24

<210> 20003
<211> 18
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<220>
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<400> 20003
caccccaccc uggcacga 18

<210> 20004
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<210> 20099
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<210> 20100
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<210> 20105
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<210> 20113
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<210> 20114
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<210> 20118
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<210> 20119
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<210> 20120
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<210> 20121
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<210> 20122
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<210> 20123
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<210> 20124
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gcccaggguc acgggcagcc 20

<210> 20125
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<210> 20219
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<210> 20223
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<210> 20224
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<210> 20225
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<210> 20226
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<210> 20227
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<220>
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<210> 20228
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<210> 20229
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<210> 20232
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<400> 20232
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<210> 20233
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<210> 20237
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<210> 20238
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<210> 20239
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<400> 20239
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<210> 20240
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<210> 20241
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<400> 20241
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<210> 20242
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<400> 20242
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<210> 20243
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<210> 20244
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<210> 20245
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uguacacaga gggcccaggg uc 22

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aguguacaca gagggcccag gguc 24

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agccgggcac agaggguc 18

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<210> 20268
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agaaggucaa ggcuggaag 19

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<220>
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<220>
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<210> 20327
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<210> 20329
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<220>
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<210> 20331
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<220>
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<400> 20331
ucaggcuguu gcaggcauca cacg 24

<210> 20332
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<400> 20332
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<210> 20333
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<400> 20333
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<210> 20334
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<400> 20335
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<210> 20336
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<210> 20337
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<400> 20337
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<210> 20338
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<220>
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<210> 20340
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<210> 20343
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<220>
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<210> 20344
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<220>
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<210> 20345
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<220>
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<210> 20346
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<220>
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<400> 20346
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<210> 20347
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<220>
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<210> 20348
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<220>
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<210> 20349
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<220>
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<210> 20350
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<220>
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<400> 20350
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<210> 20351
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<220>
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<210> 20352
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<400> 20352
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<210> 20353
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<220>
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<210> 20354
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<220>
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ugugaggcca uccacaagg 19

<210> 20355
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<220>
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<400> 20355
gugugaggcc auccacaagg 20

<210> 20356
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<220>
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<400> 20356
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<210> 20357
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<220>
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<400> 20357
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<210> 20358
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<220>
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<400> 20358
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<210> 20359
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<210> 20360
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<210> 20361
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<220>
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<400> 20361
caaggaugcc ugggcaagg 19

<210> 20362
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<220>
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<400> 20362
ccaaggaugc cugggcaagg 20

<210> 20363
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<220>
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<400> 20363
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<210> 20364
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gaccaaggau gccugggcaa gg 22

<210> 20365
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<220>
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<210> 20366
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<220>
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<210> 20402
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<210> 20435
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<210> 20450
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<220>
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gaagaagguc aaggcugg 18

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<210> 20453
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<210> 20454
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<210> 20455
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<220>
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<220>
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<220>
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<400> 20460
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<210> 20461
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<220>
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<400> 20461
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<210> 20462
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<220>
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<210> 20463
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<210> 20466
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<220>
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<400> 20466
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<210> 20467
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<220>
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<400> 20467
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<210> 20468
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<400> 20468
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<210> 20469
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<220>
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<400> 20469
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<210> 20470
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<220>
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<400> 20470
cucgcuucgg uuauuuuaag cug 23

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<220>
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<210> 20472
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<220>
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<210> 20473
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<220>
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<210> 20474
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<220>
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<400> 20474
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<210> 20475
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<220>
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<400> 20475
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<210> 20476
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<400> 20476
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<210> 20477
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<400> 20477
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<210> 20478
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<210> 20479
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<210> 20480
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<220>
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<400> 20480
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<210> 20481
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<220>
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<400> 20481
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<210> 20482
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<220>
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<400> 20482
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<210> 20483
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<220>
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<400> 20483
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<210> 20484
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<220>
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<400> 20484
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<210> 20485
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<210> 20486
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<220>
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<400> 20486
cggggagagc ccuggaau 18

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<210> 20593
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<210> 20597
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<210> 20606
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gcucaucagc uuaaaauaa 19

<210> 20607
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<220>
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<210> 20693
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<210> 20694
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<210> 20695
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<210> 20696
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<210> 20709
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<210> 20721
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<210> 20722
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<210> 20723
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<220>
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<400> 20723
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<210> 20724
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<210> 20727
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<210> 20763
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<210> 20772
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<400> 20803
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<210> 20805
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<400> 20805
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<210> 20807
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<220>
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<400> 20807
acucgugcca gggugggggug guuc 24

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<400> 20808
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<400> 20812
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<210> 20813
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<400> 20813
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<210> 20814
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<400> 20818
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<400> 20819
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<400> 20820
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<210> 20822
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<400> 20822
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<210> 20823
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<400> 20823
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<400> 20824
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<400> 20829
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<400> 20834
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<210> 20835
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<400> 20835
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<210> 20836
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<210> 20837
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<220>
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<400> 20837
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<400> 20838
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<210> 20840
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<210> 20841
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<400> 20841
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<210> 20842
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<210> 20843
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<400> 20843
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<210> 20844
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<210> 20845
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<220>
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<210> 20933
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<400> 20933
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<210> 20935
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<210> 20936
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<400> 20936
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<210> 20944
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<220>
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<400> 20944
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<210> 20945
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<220>
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<400> 20945
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<210> 20946
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<220>
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<400> 20946
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<210> 20947
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<220>
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<400> 20947
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<210> 20948
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<220>
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<400> 20948
aaacugcuga uauuagug 18

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<220>
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<400> 20949
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<210> 20950
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<400> 20950
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<220>
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<210> 20952
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<220>
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<210> 20953
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<220>
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<210> 20954
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<220>
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<210> 20955
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<220>
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<400> 20955
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<210> 20956
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<220>
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<400> 20956
ccuguucaga ccauccgug 19

<210> 20957
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<220>
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<400> 20957
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<210> 20958
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<220>
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<400> 20958
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<210> 20959
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<210> 20960
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<210> 20963
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<400> 20963
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<210> 20964
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<400> 20964
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<400> 20965
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<210> 20966
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<210> 20967
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<400> 20967
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<210> 20968
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<400> 20968
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aggaugggau gagccccau 19

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<210> 20978
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<210> 20980
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<210> 20981
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<210> 20982
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aaaguguacc uguucgagu 19

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<210> 20987
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<210> 20988
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<210> 20989
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<210> 20993
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<210> 20994
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<210> 20996
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<210> 20997
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<210> 20998
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<210> 20999
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gagcccuguu cagaccaucc gu 22

<210> 21002
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<400> 21002
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<210> 21003
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<220>
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<400> 21003
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<210> 21004
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<220>
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<400> 21004
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<210> 21005
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<220>
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<400> 21005
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<210> 21006
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<220>
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<210> 21007
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<400> 21007
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<210> 21008
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<210> 21009
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<210> 21010
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<220>
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<210> 21015
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<210> 21016
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<210> 21017
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<210> 21018
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gcccgccugg gucucug 17

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gcuaaucggc ucccccu 17

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gaggccaucc acaaggu 17

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<210> 21030
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gagccccaug ugggacuaac 20

<210> 21031
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ggcccggcgu uugugaaaug 20

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ugugcccgcc ugggucucug 20

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<210> 21041
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gcccagucgc aagaacc 17

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acgcacaaga aacgucc 17

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aagucccggg caccauc 17

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uuucaccgag accucag 17

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<210> 21058
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gcucuccguc agguagg 17

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<210> 21060
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guucuggauc cgaauau 17

<210> 21062
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cccugguucu ugcgacu 17

<210> 21063
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<220>
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ucucggugaa accaccu 17

<210> 21064
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uucaccgaga ccucagu 17

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<210> 21067
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gcccgccaga cauguggcca 20

<210> 21068
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ucacgcacaa gaaacgucca 20

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<210> 21073
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ggugcccggg acuuacccac 20

<210> 21074
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gucacccugg uucuugcgac 20

<210> 21075
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gaggucucgg ugaaaccacc 20

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<210> 21078
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<220>
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<210> 21079
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<400> 21079
augugcgagg uaaggcagcc 20

<210> 21080
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<210> 21081
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agguguccac gguagcuucc 20

<210> 21084
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ggaguacuac acucagcagc 20

<210> 21085
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<400> 21085
guuugcgacu cugacagagc 20

<210> 21086
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<400> 21086
ggacaccucg gcccuugagc 20

<210> 21087
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<220>
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aaagcacgaa gucuccaggc 20

<210> 21088
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<212> RNA
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<220>
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ucaccgagac cucagugggc 20

<210> 21089
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<210> 21090
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<220>
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<210> 21091
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<210> 21096
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<210> 21097
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<210> 21102
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agcaguucag cggguacuug 20

<210> 21103
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ugaguucugg auccgaauau 20

<210> 21104
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<400> 21104
ucacccuggu ucuugcgacu 20

<210> 21105
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ggaagcuacc guggacaccu 20

<210> 21106
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aggucucggu gaaaccaccu 20

<210> 21107
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aaacguccag ggcucgcccu 20

<210> 21108
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<400> 21108
uccacgguag cuuccuggcu 20

<210> 21109
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<210> 21110
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<210> 21113
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<210> 21114
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ugcccgggac uuaccca 17

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<210> 21119
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<210> 21120
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<210> 21121
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<400> 21121
cgcacaagaa acgucca 17

<210> 21122
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<210> 21124
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<400> 21124
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<210> 21125
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<220>
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<400> 21125
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<210> 21126
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<210> 21127
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<400> 21131
ugcagagacc cugcuca 17

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<210> 21139
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<210> 21140
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gauuucuaug accugua 17

<210> 21141
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gacagcaucu cucugua 17

<210> 21142
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<210> 21143
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<210> 21145
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gggccccccg caacccc 17

<210> 21149
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<400> 21152
cagcccaagg cuggccc 17

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cuccucacug cccugcc 17

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<210> 21158
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gaaagcacga agucucc 17

<210> 21159
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ugcgacucug acagagc 17

<210> 21162
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<210> 21163
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<210> 21164
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<210> 21166
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<210> 21167
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ccacaugucu ggcgggc 17

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<220>
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auggccacau gucuggc 17

<210> 21170
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<400> 21170
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<210> 21171
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accgccuggu gcccugc 17

<210> 21172
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gcagcagggu guccugc 17

<210> 21173
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<400> 21173
ggcagagacg cugcugc 17

<210> 21174
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<220>
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<400> 21174
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<400> 21175
auucggaucc agaacuc 17

<210> 21176
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<210> 21177
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<210> 21178
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cuagagaagg cagcguc 17

<210> 21179
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<400> 21179
uaccauggcc acauguc 17

<210> 21180
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<400> 21180
agaaaucccc ugaguuc 17

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<400> 21181
ucggauccag aacucag 17

<210> 21182
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ggaucggagc aguucag 17

<210> 21183
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<400> 21183
gucagggaag guaagag 17

<210> 21184
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<220>
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caucucucug uagggag 17

<210> 21185
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<400> 21185
cuaugaccug uauggag 17

<210> 21186
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<400> 21186
augugggguga cccugag 17

<210> 21187
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<400> 21187
cccucaccuc ucacuag 17

<210> 21188
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<400> 21188
gagccaggaa gcuaccg 17

<210> 21189
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<220>
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agagagaugc ugucccg 17

<210> 21190
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acccugcuca agggccg 17

<210> 21191
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<220>
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<210> 21193
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<220>
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<400> 21193
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<210> 21194
<211> 17
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<220>
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agucccgggc accaucg 17

<210> 21195
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<220>
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cccugcaggg caccagg 17

<210> 21196
<211> 17
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<220>
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<400> 21196
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<210> 21197
<211> 17
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<220>
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<400> 21197
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<210> 21198
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<220>
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<400> 21198
aucucucugu agggagg 17

<210> 21199
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<220>
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caggcagggc agugagg 17

<210> 21200
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<400> 21200
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<210> 21201
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<210> 21202
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<210> 21203
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<210> 21204
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<210> 21206
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uucuaugacc uguaugg 17

<210> 21208
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<220>
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<400> 21208
gacucugaca gagcugg 17

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<400> 21209
cauggccaca ugucugg 17

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<210> 21211
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cgcacaugac cuugaug 17

<210> 21213
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<210> 21214
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<210> 21215
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<210> 21216
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<210> 21302
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<210> 21303
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<210> 21304
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<210> 21337
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<210> 21338
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<210> 21339
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gggacaguaa caucccc 17

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<210> 21434
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<210> 21445
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cuuacagguc uccccgc 17

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<210> 21448
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<210> 21449
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gcagacuuuc cugccgc 17

<210> 21450
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<210> 21451
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gaggauacag ccaaggc 17

<210> 21452
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<210> 21454
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<210> 21455
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<210> 21456
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<210> 21457
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cuccagacaa cccuggc 17

<210> 21458
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cuggcagaug gcguggc 17

<210> 21459
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gccugugcgg ccgaugc 17

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<210> 21461
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<210> 21462
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gcucugcacg caccugc 17

<210> 21463
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uacugucccg ucccugc 17

<210> 21464
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<210> 21465
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gucuuagcgu ucucauc 17

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gggauugagg aggccuc 17

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ugagcggugc uguccuc 17

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<210> 21502
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<210> 21503
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<400> 21503
cgucaugacc acccgag 17

<210> 21504
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<400> 21504
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caaguacaga cacaagg 17

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<400> 21525
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gaagacgggg auugagg 17

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<210> 21542
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<210> 21543
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<210> 21552
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<210> 21553
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<210> 21554
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<210> 21555
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<210> 21556
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<400> 21556
agugugggcc acguggg 17

<210> 21557
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aaacucugag auguggg 17

<210> 21558
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gaguuugagg ugcaugg 17

<210> 21559
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<210> 21563
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<400> 21563
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<210> 21564
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cacuaagaag aagcugg 17

<210> 21565
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gcauucuuca uggcugg 17

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cagccagggu ugucugg 17

<210> 21567
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<210> 21568
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gugccccuca cccuugg 17

<210> 21569
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<210> 21570
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ugccacgagg gugaaug 17

<210> 21571
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<220>
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<400> 21571
gagcuggccc gaccaug 17

<210> 21572
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<210> 21573
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<210> 21574
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uacucuguga ccaacug 17

<210> 21575
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<400> 21575
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<210> 21576
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uguaccaugg ccaccug 17

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<210> 21579
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<400> 21579
gcgccuuugu cuaccug 17

<210> 21580
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<220>
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<210> 21581
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ggucccagu gagccug 17

<210> 21582
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<220>
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guagacaaag gcgccug 17

<210> 21583
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<210> 21584
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<400> 21584
ucugguccag gaagcug 17

<210> 21585
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<400> 21585
gcaggaucac ucggcug 17

<210> 21586
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<400> 21586
ggggaccggc agggcug 17

<210> 21587
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<220>
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ggcauucuuc auggcug 17

<210> 21588
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<220>
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caucaagguc agcagug 17

<210> 21589
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<220>
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gcuccaccag guccgug 17

<210> 21590
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<210> 21658
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gguacggagu uuguauu 17

<210> 21659
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<210> 21663
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<210> 21666
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auggagaaca ucuccaccaa 20

<210> 21667
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gcagacaagg agaagagcaa 20

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ggggggcaag uacagacaca 20

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gcgggcgcag cgcucgggca 20

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<220>
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aggugcggga ggccuuggca 20

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<210> 21696
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cauugucauc gacaugcuca 20

<210> 21697
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cauccagaag accauccaga 20

<210> 21702
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<400> 21703
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<210> 21712
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<220>
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<210> 21713
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<210> 21714
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<210> 21726
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<210> 21727
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<220>
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<210> 21728
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<220>
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<210> 21731
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<210> 21732
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<220>
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<210> 21737
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<210> 21738
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<220>
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<220>
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<210> 21741
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<220>
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<210> 21742
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<220>
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<400> 21742
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<210> 21743
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<220>
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<210> 21744
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<220>
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<220>
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<210> 21746
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<220>
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<210> 21747
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<220>
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<210> 21748
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<220>
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<220>
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<210> 21750
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<220>
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<210> 21751
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<220>
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<210> 21752
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<220>
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<220>
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<210> 21754
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<220>
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<210> 21757
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<400> 21757
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<210> 21758
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<210> 21759
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<220>
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<220>
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<210> 21762
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<220>
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<220>
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<210> 21764
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<220>
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<210> 21765
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<220>
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<210> 21766
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<220>
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<210> 21767
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<220>
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<210> 21768
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<210> 21769
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<220>
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<210> 21770
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<210> 21771
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<210> 21772
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<220>
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<210> 21773
<211> 20
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<220>
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<210> 21774
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uaccuuacag gucuccccgc 20

<210> 21775
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<220>
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<210> 21776
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<210> 21777
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<220>
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<210> 21778
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<220>
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<210> 21779
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<220>
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<220>
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<210> 21781
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<220>
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<220>
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<220>
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<210> 21784
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<220>
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<210> 21785
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<220>
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<210> 21786
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<220>
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<210> 21787
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<210> 21789
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<210> 21790
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<400> 21790
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<210> 21791
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<210> 21792
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<210> 21793
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<400> 21793
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<210> 21794
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<400> 21794
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<210> 21795
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gaagaccauc cagauggugc 20

<210> 21796
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<220>
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<210> 21797
<211> 20
<212> RNA
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<220>
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aaugccagau cucccgaauc 20

<210> 21798
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<220>
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agcgcugcgc ccgcaccauc 20

<210> 21799
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<220>
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uaggucuuag cguucucauc 20

<210> 21800
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<220>
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gagaccugau ucgggagauc 20

<210> 21801
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<220>
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uuuccugccg cugguugauc 20

<210> 21802
<211> 20
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<220>
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gugggggggca gucaaaccuc 20

<210> 21803
<211> 20
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<220>
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<400> 21803
gcacgcugca ugcccaccuc 20

<210> 21804
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acggggauug aggaggccuc 20

<210> 21805
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<220>
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aagugagcgg ugcuguccuc 20

<210> 21806
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<220>
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ccccaugguc gggccagcuc 20

<210> 21807
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<220>
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auggugcggg cgcagcgcuc 20

<210> 21808
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<220>
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ccggccuuuc uccaccucuc 20

<210> 21809
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<220>
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gaucucccga aucaggucuc 20

<210> 21810
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<220>
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<210> 21811
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gaagaacuug caccagcguc 20

<210> 21812
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<220>
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<210> 21813
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<220>
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ucacugggga ccccaugguc 20

<210> 21814
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<220>
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<210> 21815
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<220>
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ugcccccgga gaccugauuc 20

<210> 21816
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<220>
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aggccacggu caaugacuuc 20

<210> 21817
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<220>
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auacagccaa ggcuggcuuc 20

<210> 21818
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<220>
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gcaccaucug gauggucuuc 20

<210> 21819
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<220>
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accugcacac uaagaacaag 20

<210> 21820
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<220>
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<210> 21821
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<210> 21822
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ggcagccugg gugcucacag 20

<210> 21823
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<220>
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<400> 21823
uccuggacca gaucaaccag 20

<210> 21824
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<220>
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<400> 21824
gggccacuca cauuguccag 20

<210> 21825
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<220>
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aggagaaagu gaagaagcag 20

<210> 21826
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<220>
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<400> 21826
accagcgucu ggaagggcag 20

<210> 21827
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<220>
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<400> 21827
aaagacgggg gugccaucag 20

<210> 21828
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<400> 21828
gucuaccugc ggcaggucag 20

<210> 21829
<211> 20
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<220>
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<400> 21829
caucgucaug accacccgag 20

<210> 21830
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<400> 21830
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<210> 21831
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uucccucaag aggaagugag 20

<210> 21832
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<210> 21833
<211> 20
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<220>
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<400> 21833
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<210> 21834
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<220>
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<210> 21835
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<220>
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gaccuccagc uucuucuuag 20

<210> 21836
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<220>
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<400> 21836
ggucagcagu gugggccacg 20

<210> 21837
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<210> 21890
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<220>
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<210> 21892
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<220>
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<210> 21894
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<220>
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<210> 21902
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<220>
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<210> 21906
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agaagaccau ccagauggug 20

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<210> 21916
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<210> 21922
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<210> 21923
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<210> 21929
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<220>
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<210> 21938
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<210> 21939
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<220>
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<210> 21940
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<210> 21942
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<210> 21945
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<220>
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<220>
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<210> 21953
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<210> 21954
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guaguuggca uugauguagu 20

<210> 21955
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<220>
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acugcugacc uugauguagu 20

<210> 21956
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<220>
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<210> 21957
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<220>
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gucccauacu ggcccgaggu 20

<210> 21958
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<220>
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gagguggaga aaggccgggu 20

<210> 21959
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<220>
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<210> 22080
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aguucagcgg guacuugag 19

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<400> 22083
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<220>
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<400> 22087
accguggaca ccucggcccu ugag 24

<210> 22088
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<400> 22089
agcccucacc ucucacuag 19

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<400> 22090
gagcccucac cucucacuag 20

<210> 22091
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<220>
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cugcaggaca cccugcug 18

<210> 22092
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<220>
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<400> 22092
ccugcaggac acccugcug 19

<210> 22093
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<220>
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<400> 22093
uccugcagga cacccugcug 20

<210> 22094
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<220>
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<400> 22094
guccugcagg acacccugcu g 21

<210> 22095
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<220>
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<400> 22095
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<210> 22096
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<400> 22096
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<210> 22097
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<400> 22097
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<210> 22098
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<220>
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<400> 22098
ugaguucugg auccgaau 18

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<400> 22099
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<210> 22100
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<220>
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<400> 22100
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<210> 22101
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<220>
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<400> 22101
aucccugag uucuggau 18

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<220>
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<400> 22102
aaucccuga guucuggau 19

<210> 22103
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<220>
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<400> 22103
aaaucccug aguucuggau 20

<210> 22104
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<220>
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<400> 22104
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<210> 22105
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<220>
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<400> 22105
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<210> 22106
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<220>
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<400> 22106
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<210> 22107
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<220>
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<400> 22107
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<210> 22108
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<220>
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<400> 22108
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<210> 22109
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<400> 22109
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<210> 22110
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<400> 22110
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<210> 22111
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<220>
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<220>
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<400> 22112
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<210> 22113
<211> 20
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<220>
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<400> 22113
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<210> 22114
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<220>
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<400> 22114
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<210> 22115
<211> 22
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<220>
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<400> 22115
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<210> 22116
<211> 23
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<220>
<223> Synthetic oligonucleotide: Ptpn6-2900

<400> 22116
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<210> 22117
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<220>
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<400> 22117
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<210> 22118
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<400> 22118
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<210> 22119
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<220>
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<400> 22119
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<210> 22120
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<220>
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<211> 21
<212> RNA
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<220>
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<400> 22121
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<210> 22122
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<220>
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<400> 22122
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<210> 22123
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<220>
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<400> 22123
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<210> 22124
<211> 24
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<220>
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<400> 22124
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<210> 22125
<211> 18
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<220>
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<400> 22125
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<210> 22126
<211> 19
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<220>
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<400> 22126
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<211> 20
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<220>
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<400> 22127
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<210> 22128
<211> 21
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<220>
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<210> 22129
<211> 22
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<220>
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<400> 22129
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<210> 22130
<211> 23
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<220>
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<400> 22130
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<210> 22131
<211> 24
<212> RNA
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<220>
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<400> 22131
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<210> 22132
<211> 18
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<220>
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<400> 22132
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<210> 22133
<211> 19
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<220>
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<400> 22133
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<210> 22134
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<220>
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<400> 22134
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<210> 22135
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<400> 22135
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<210> 22136
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<220>
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<400> 22136
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<210> 22137
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<220>
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<400> 22137
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<210> 22138
<211> 18
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<220>
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<400> 22138
gugcccggga cuuaccca 18

<210> 22139
<211> 19
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<220>
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<400> 22139
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<210> 22140
<211> 20
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<220>
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<400> 22140
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<210> 22141
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<400> 22141
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<210> 22142
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<220>
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<400> 22142
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<210> 22143
<211> 23
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<400> 22143
cgauggugcc cgggacuuac cca 23

<210> 22144
<211> 24
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<220>
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<400> 22144
ccgauggugc ccgggacuua ccca 24

<210> 22145
<211> 18
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<400> 22145
gucucugcau ccagccca 18

<210> 22146
<211> 19
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<220>
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<400> 22146
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<210> 22147
<211> 20
<212> RNA
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<220>
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<400> 22147
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<210> 22148
<211> 21
<212> RNA
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<220>
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<400> 22148
agggucucug cauccagccc a 21

<210> 22149
<211> 22
<212> RNA
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<220>
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<400> 22149
cagggucucu gcauccagcc ca 22

<210> 22150
<211> 23
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<220>
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<400> 22150
gcagggucuc ugcauccagc cca 23

<210> 22151
<211> 24
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<400> 22151
agcagggucu cugcauccag ccca 24

<210> 22152
<211> 18
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<220>
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<400> 22152
ugggcugguc acugagca 18

<210> 22153
<211> 19
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<220>
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<400> 22153
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<210> 22154
<211> 20
<212> RNA
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<220>
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<400> 22154
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<210> 22155
<211> 21
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<220>
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<400> 22155
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<210> 22156
<211> 22
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<220>
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<400> 22156
gccuugggcu ggucacugag ca 22

<210> 22157
<211> 23
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<220>
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<400> 22157
agccuugggc uggucacuga gca 23

<210> 22158
<211> 24
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<220>
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<400> 22158
cagccuuggg cuggucacug agca 24

<210> 22159
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<220>
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<400> 22159
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<210> 22160
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<220>
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<400> 22160
gggcggccca ggcagggca 19

<210> 22161
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<400> 22161
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<210> 22162
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<400> 22162
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<220>
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<400> 22163
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<210> 22164
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<220>
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<400> 22164
accugggcgg cccaggcagg gca 23

<210> 22165
<211> 24
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<220>
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<400> 22165
caccugggcg gcccaggcag ggca 24

<210> 22166
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<220>
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<400> 22166
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<210> 22167
<211> 19
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<220>
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<400> 22167
cuccccucca uacagguca 19

<210> 22168
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<220>
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<400> 22168
ucucccucc auacagguca 20

<210> 22169
<211> 21
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<220>
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<400> 22169
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<210> 22170
<211> 22
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<220>
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<400> 22170
cuucucccu ccauacaggu ca 22

<210> 22171
<211> 23
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<220>
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<400> 22171
acuucucccc uccauacagg uca 23

<210> 22172
<211> 24
<212> RNA
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<220>
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<400> 22172
aacuucuccc cuccauacag guca 24

<210> 22173
<211> 18
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<220>
<223> Synthetic oligonucleotide: Ptpn6-2950

<400> 22173
ccagccuugg gcugguca 18

<210> 22174
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<220>
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<400> 22174
gccagccuug ggcugguca 19

<210> 22175
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<220>
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<400> 22175
ggccagccuu gggcugguca 20

<210> 22176
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<220>
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<400> 22176
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<210> 22177
<211> 22
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<220>
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<400> 22177
ugggccagcc uugggcuggu ca 22

<210> 22178
<211> 23
<212> RNA
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<220>
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<400> 22178
cugggccagc cuugggcugg uca 23

<210> 22179
<211> 24
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<213> Artificial Sequence

<220>
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<400> 22179
ccugggccag ccuugggcug guca 24

<210> 22180
<211> 18
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<220>
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<400> 22180
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<210> 22181
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<220>
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<400> 22181
cccaccuacc ugacggaga 19

<210> 22182
<211> 20
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<220>
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<400> 22182
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<210> 22183
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<220>
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<400> 22183
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<210> 22184
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<220>
<223> Synthetic oligonucleotide: Ptpn6-2960

<400> 22184
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<210> 22185
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<220>
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<400> 22185
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<210> 22186
<211> 24
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<220>
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<400> 22186
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<210> 22187
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<220>
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<400> 22187
ucacccuggu ucuugcga 18

<210> 22188
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<220>
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<400> 22188
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<210> 22189
<211> 20
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<220>
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<400> 22189
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<210> 22190
<211> 21
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<220>
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<400> 22190
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<210> 22191
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<220>
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<400> 22191
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<210> 22192
<211> 23
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<220>
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<400> 22192
agaagucacc cugguucuug cga 23

<210> 22193
<211> 24
<212> RNA
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<220>
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<400> 22193
gagaagucac ccugguucuu gcga 24

<210> 22194
<211> 18
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<220>
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<400> 22194
agcaucucuc uguaggga 18

<210> 22195
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<220>
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<400> 22195
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<210> 22196
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<220>
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<400> 22196
acagcaucuc ucuguaggga 20

<210> 22197
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<220>
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<210> 22198
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<220>
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<400> 22198
ggacagcauc ucucuguagg ga 22

<210> 22199
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<210> 22200
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<400> 22200
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<220>
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<210> 22219
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<210> 22220
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<210> 22221
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<210> 22222
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<210> 22229
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<210> 22234
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<400> 22235
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<210> 22236
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<400> 22236
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<220>
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<400> 22240
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<210> 22241
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<220>
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<400> 22241
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<210> 22242
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<220>
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<400> 22242
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<210> 22243
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<220>
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<220>
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<210> 22248
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<220>
<223> Synthetic oligonucleotide: Ptpn6-3019

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<210> 22249
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<210> 22252
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<220>
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<210> 22253
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<210> 22254
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<212> RNA
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<220>
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<210> 22255
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<210> 22257
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<400> 22257
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<210> 22258
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<220>
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<210> 22259
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<220>
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<220>
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<400> 22262
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<220>
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<400> 22263
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<210> 22264
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<220>
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<400> 22265
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<220>
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<210> 22269
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<220>
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<400> 22269
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<210> 22270
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<400> 22270
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<210> 22271
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<220>
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<220>
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<400> 22275
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<210> 22276
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<220>
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<400> 22276
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<400> 22277
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<220>
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<400> 22278
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<210> 22279
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<220>
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<400> 22279
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<210> 22280
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<210> 22284
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<210> 22285
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<400> 22285
ggggagccug ggccagcc 18

<210> 22286
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<400> 22286
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<210> 22287
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<220>
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<400> 22287
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<210> 22288
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<210> 22289
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<220>
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<400> 22289
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<210> 22290
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<210> 22291
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<400> 22291
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<210> 22292
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<400> 22292
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<210> 22293
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<210> 22294
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<220>
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<210> 22295
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<220>
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<210> 22296
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<210> 22297
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<210> 22298
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<400> 22298
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<210> 22299
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<400> 22299
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<210> 22300
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<220>
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<400> 22300
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<220>
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<210> 22302
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<220>
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<400> 22302
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<210> 22303
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<220>
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<400> 22303
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<210> 22304
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<220>
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<400> 22304
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<210> 22305
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<220>
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<400> 22305
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<210> 22306
<211> 22
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<220>
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<210> 22307
<211> 23
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<220>
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<400> 22307
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<210> 22308
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<220>
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<400> 22308
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<210> 22309
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<220>
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<210> 22310
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<210> 22311
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<210> 22313
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<220>
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<400> 22313
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<210> 22314
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<220>
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<400> 22314
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<210> 22315
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<210> 22316
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<210> 22317
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<210> 22318
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<210> 22319
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<220>
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<400> 22319
guucuugcga cugggccgag c 21

<210> 22320
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<400> 22320
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<210> 22321
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<220>
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<210> 22327
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<210> 22328
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<210> 22336
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<210> 22337
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<210> 22338
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<210> 22339
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<210> 22340
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<210> 22341
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<210> 22342
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<210> 22343
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<223> Synthetic oligonucleotide: Ptpn6-3103

<400> 22343
aggcucucac gcacaagaaa cguc 24

<210> 22344
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<220>
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<400> 22344
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<210> 22345
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<220>
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<400> 22345
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<210> 22346
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<220>
<223> Synthetic oligonucleotide: Ptpn6-1228

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<210> 22347
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<220>
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<210> 22348
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<220>
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<210> 22349
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<220>
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<220>
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<210> 22351
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<220>
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<220>
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<220>
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<210> 22354
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<220>
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<400> 22354
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<210> 22355
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<220>
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<210> 22356
<211> 23
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<220>
<223> Synthetic oligonucleotide: Ptpn6-3114

<400> 22356
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<210> 22357
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<212> RNA
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<220>
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<400> 22357
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<210> 22358
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<220>
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<400> 22358
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<210> 22359
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<220>
<223> Synthetic oligonucleotide: Ptpn6-3117

<400> 22359
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<220>
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<220>
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<220>
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<210> 22363
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<220>
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<210> 22364
<211> 24
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<220>
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<220>
<223> Synthetic oligonucleotide: Ptpn6-3123

<400> 22365
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<220>
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<210> 22369
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<210> 22370
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<210> 22371
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<210> 22372
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<210> 22376
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<210> 22378
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<400> 22378
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<210> 22379
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<210> 22384
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<210> 22385
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<210> 22386
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<400> 22386
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<220>
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<400> 22387
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<220>
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<400> 22388
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<220>
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<210> 22393
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<220>
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<220>
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<210> 22397
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<220>
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<210> 22398
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<220>
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<220>
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<220>
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<220>
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<210> 22402
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<400> 22402
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<210> 22403
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<400> 22403
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<210> 22404
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<220>
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<400> 22404
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<210> 22405
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<220>
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<400> 22405
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<210> 22406
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<220>
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<400> 22406
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<210> 22407
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<220>
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<400> 22407
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<210> 22408
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<220>
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<210> 22409
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<400> 22409
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<210> 22410
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<220>
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<400> 22410
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<210> 22411
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<400> 22411
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<210> 22412
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<220>
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<400> 22412
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<210> 22413
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<220>
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<400> 22413
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<210> 22414
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<220>
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<400> 22414
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<210> 22415
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<220>
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<400> 22415
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<210> 22416
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<220>
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<400> 22416
cccugguucu ugcgacuggg 20

<210> 22417
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<220>
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<400> 22417
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<210> 22418
<211> 22
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<220>
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<400> 22418
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<210> 22419
<211> 23
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<220>
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<400> 22419
ucacccuggu ucuugcgacu ggg 23

<210> 22420
<211> 24
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<220>
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<400> 22420
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<210> 22421
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<220>
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<400> 22421
acgaagucuc caggcugg 18

<210> 22422
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<220>
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<400> 22422
cacgaagucu ccaggcugg 19

<210> 22423
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<220>
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<400> 22423
gcacgaaguc uccaggcugg 20

<210> 22424
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<220>
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<400> 22424
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<210> 22425
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<220>
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<400> 22425
aagcacgaag ucuccaggcu gg 22

<210> 22426
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<220>
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<400> 22426
aaagcacgaa gucuccaggc ugg 23

<210> 22427
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<220>
<223> Synthetic oligonucleotide: Ptpn6-3178

<400> 22427
gaaagcacga agucuccagg cugg 24

<210> 22428
<211> 18
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<220>
<223> Synthetic oligonucleotide: Ptpn6-3179

<400> 22428
gggggggccca ccuaccug 18

<210> 22429
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<220>
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<400> 22429
cgggggggccc accuaccug 19

<210> 22430
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<220>
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<400> 22430
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<210> 22431
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<220>
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<400> 22431
ugcgggggggc ccaccuaccu g 21

<210> 22432
<211> 22
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<220>
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<400> 22432
uugcgggggg cccaccuacc ug 22

<210> 22433
<211> 23
<212> RNA
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<220>
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<400> 22433
guugcggggg gcccaccuac cug 23

<210> 22434
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<213> Artificial Sequence

<220>
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<400> 22434
gguugcgggg ggcccaccua ccug 24

<210> 22435
<211> 18
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<220>
<223> Synthetic oligonucleotide: Ptpn6-3186

<400> 22435
accugauccc ccacccug 18

<210> 22436
<211> 19
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<220>
<223> Synthetic oligonucleotide: Ptpn6-3187

<400> 22436
caccugaucc cccacccug 19

<210> 22437
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<220>
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<400> 22437
ucaccugauc ccccacccug 20

<210> 22438
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<220>
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<400> 22438
gucaccugau cccccacccu g 21

<210> 22439
<211> 22
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<220>
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<400> 22439
ggucaccuga ucccccaccc ug 22

<210> 22440
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<220>
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<400> 22440
gggucaccug aucccccacc cug 23

<210> 22441
<211> 24
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<220>
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<210> 22456
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<210> 22462
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<210> 22469
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<210> 22474
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<210> 22475
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<210> 22490
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<210> 22491
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<210> 22511
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<210> 22539
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<210> 22541
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<210> 22542
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<210> 22543
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<400> 22544
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<210> 22546
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<210> 22549
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<210> 22552
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<210> 22554
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<210> 22561
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<210> 22562
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<210> 22570
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<210> 22590
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<210> 22591
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<210> 22592
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<210> 22594
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<210> 22595
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<220>
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<210> 22596
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<220>
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<210> 22597
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<400> 22597
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<210> 22598
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<220>
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<220>
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<210> 22603
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<220>
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<210> 22604
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<210> 22605
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<210> 22606
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<400> 22611
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<210> 22652
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<210> 22654
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<400> 22658
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<210> 22659
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<400> 22659
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<210> 22665
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<210> 22668
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<220>
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<210> 22672
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<210> 22673
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<400> 22673
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<210> 22674
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<210> 22675
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<210> 22679
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<210> 22680
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<220>
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<210> 22682
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<210> 22702
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<210> 22703
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<210> 22710
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<210> 22716
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<210> 22717
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<400> 22717
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<210> 22722
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<210> 22723
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<400> 22724
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<210> 22744
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<210> 22750
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<210> 22751
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<210> 22752
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<210> 22753
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<220>
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<220>
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<210> 22756
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<400> 22756
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<210> 22757
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<220>
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<210> 22758
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<400> 22758
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<210> 22759
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<210> 22766
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<210> 22767
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<210> 22769
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<210> 22770
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<220>
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<210> 22771
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<210> 22772
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<400> 22772
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<210> 22773
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<400> 22773
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<210> 22774
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<220>
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<400> 22774
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<210> 22775
<211> 19
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<220>
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<400> 22775
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<210> 22776
<211> 20
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<220>
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<210> 22777
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<210> 22778
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<220>
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<400> 22778
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<210> 22779
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<210> 22780
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<400> 22780
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<210> 22781
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<220>
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<210> 22782
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<220>
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<210> 22783
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<220>
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<210> 22784
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<220>
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<210> 22785
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<220>
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<210> 22786
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<220>
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<400> 22786
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<210> 22787
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<220>
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<220>
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<400> 22788
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<210> 22789
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<220>
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<400> 22789
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<210> 22790
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<220>
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<210> 22791
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<220>
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<400> 22791
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<210> 22792
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<220>
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<210> 22793
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<220>
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<400> 22793
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<210> 22794
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<210> 22795
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<220>
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<210> 22796
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<210> 22797
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<210> 22798
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<220>
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<210> 22799
<211> 22
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<220>
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<400> 22799
accgccuggu gcccugcagg gu 22

<210> 22800
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<400> 22800
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<210> 22801
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<400> 22801
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<210> 22802
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<220>
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<400> 22802
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ggggauuucu augaccugu 19

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<210> 22815
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<400> 22815
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<210> 22816
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<400> 22816
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<400> 22817
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<400> 22823
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<210> 22825
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<400> 22825
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<220>
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<210> 22828
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<220>
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<210> 22829
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<210> 22830
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<210> 22835
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<220>
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<210> 22836
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<400> 22836
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<210> 22837
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<220>
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<210> 22841
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<210> 22842
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<220>
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<210> 22843
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<210> 22844
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<210> 22845
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<400> 22845
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<220>
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<400> 22853
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<210> 22854
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<220>
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<400> 22854
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<210> 22855
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<220>
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<210> 22856
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<210> 22857
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<400> 22857
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<210> 22858
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<400> 22858
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<210> 22859
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<220>
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<400> 22859
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<400> 22860
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<210> 22862
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<220>
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<400> 22862
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<210> 22863
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<220>
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<210> 22864
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<400> 22864
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<210> 22865
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<400> 22865
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<400> 22866
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<400> 22867
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<220>
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<210> 22869
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<400> 22869
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<210> 22870
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<220>
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<210> 22871
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<210> 22872
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<400> 22872
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<210> 22873
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<400> 22873
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<210> 22874
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<400> 22874
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<210> 22876
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<210> 22877
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<400> 22877
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<210> 22878
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<210> 22879
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<400> 22879
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<220>
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<400> 22882
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<210> 22883
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<220>
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<210> 22884
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<210> 22885
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<400> 22885
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<210> 22886
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<400> 22886
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<210> 22887
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<400> 22887
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<210> 22888
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<220>
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<400> 22888
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<220>
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<400> 22889
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<210> 22890
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<220>
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<400> 22890
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<210> 22891
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<220>
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<400> 22891
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<210> 22892
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<400> 22892
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<210> 22893
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<400> 22893
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<210> 22894
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<220>
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<400> 22894
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<210> 22895
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<210> 22896
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<220>
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<400> 22896
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<210> 22897
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<220>
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<400> 22897
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<210> 22898
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<220>
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<400> 22898
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<210> 22899
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<400> 22899
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<210> 22900
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<210> 22901
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<220>
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<210> 22902
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<220>
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<210> 22903
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<220>
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<210> 22904
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<220>
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<400> 22904
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<210> 22905
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<220>
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<400> 22905
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<210> 22906
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<210> 22907
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<210> 22908
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<220>
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<210> 22909
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<220>
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<400> 22909
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<210> 22910
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<220>
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<210> 22911
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<210> 22912
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<210> 22913
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<210> 22914
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<400> 22914
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<400> 22915
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<210> 22917
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<210> 22918
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<210> 22919
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<210> 22920
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<400> 22920
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<210> 22921
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<400> 22921
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<210> 22922
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<220>
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<210> 22923
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<210> 22983
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<210> 22984
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<210> 23003
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<210> 23004
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<210> 23008
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<210> 23009
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<210> 23010
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<210> 23011
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<210> 23012
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<210> 23013
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<210> 23014
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<210> 23017
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<400> 23022
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<210> 23023
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<210> 23024
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<210> 23025
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<400> 23025
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<210> 23026
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<210> 23030
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<400> 23030
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<210> 23031
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<400> 23031
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<210> 23032
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<210> 23035
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<210> 23036
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<210> 23037
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<400> 23037
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<210> 23038
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<210> 23039
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<210> 23040
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<400> 23040
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<210> 23041
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<210> 23042
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<210> 23044
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<210> 23074
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<220>
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<220>
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<400> 23083
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<400> 23084
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<210> 23089
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<210> 23091
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<210> 23092
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<210> 23093
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<210> 23094
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<210> 23095
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<210> 23096
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<400> 23096
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<220>
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<400> 23102
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<210> 23103
<211> 22
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<400> 23103
ggugaggggc accuggggguu uu 22

<210> 23104
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<400> 23104
gggugagggg caccuggggg uuu 23

<210> 23105
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<400> 23105
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<210> 23106
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<400> 23106
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<400> 23107
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<210> 23108
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<220>
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<400> 23108
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<210> 23109
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<220>
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<210> 23110
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<400> 23110
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<210> 23111
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<220>
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<210> 23112
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<220>
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<400> 23112
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<210> 23113
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<220>
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<400> 23113
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<210> 23114
<211> 19
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<220>
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<400> 23114
ucuuaguggu uucaaugaa 19

<210> 23115
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<220>
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<400> 23115
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<210> 23116
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<220>
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<210> 23117
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<220>
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<400> 23117
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<210> 23118
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<220>
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<210> 23119
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<220>
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<210> 23122
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<210> 23124
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<210> 23126
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<210> 23127
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<210> 23129
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<220>
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<400> 23129
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<210> 23130
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<210> 23131
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<220>
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<400> 23131
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<210> 23132
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<220>
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<400> 23132
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<210> 23133
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<220>
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<210> 23134
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<220>
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<210> 23135
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<210> 23136
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<220>
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<400> 23136
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<210> 23137
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<210> 23138
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<220>
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<210> 23139
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<210> 23140
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<400> 23140
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<210> 23141
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<220>
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<400> 23141
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<210> 23142
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<400> 23142
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<210> 23143
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<210> 23144
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<220>
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<400> 23144
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<210> 23145
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<220>
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<400> 23145
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<210> 23146
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<220>
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<400> 23146
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<210> 23147
<211> 24
<212> RNA
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<220>
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<400> 23147
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<210> 23148
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<400> 23148
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<210> 23149
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<400> 23149
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<210> 23150
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<220>
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<210> 23151
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<210> 23152
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<400> 23152
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<210> 23153
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<400> 23153
ccagcuucuu cuuagugguu uca 23

<210> 23154
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<400> 23154
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<210> 23155
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<220>
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<400> 23155
ccgcucacuu ccucuuga 18

<210> 23156
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<220>
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<400> 23156
accgcucacu uccucuuga 19

<210> 23157
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<220>
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<400> 23157
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<210> 23158
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<220>
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<400> 23158
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<210> 23159
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<220>
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<400> 23159
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<210> 23160
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<212> RNA
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<220>
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<400> 23160
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<210> 23161
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<400> 23161
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<210> 23162
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<220>
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<400> 23162
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<210> 23163
<211> 19
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<220>
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<400> 23163
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<210> 23164
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<220>
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<400> 23164
augcccaccu cgggccagua 20

<210> 23165
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<400> 23166
gcaugcccac cucgggccag ua 22

<210> 23167
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<400> 23167
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<210> 23168
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gcagucaggg ccacucac 18

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ggcagucagg gccacucac 19

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<220>
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uggcagucag ggccacucac 20

<210> 23172
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<220>
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<400> 23172
guggcaguca gggccacuca c 21

<210> 23173
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<220>
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<400> 23173
aguggcaguc agggccacuc ac 22

<210> 23174
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<400> 23174
caguggcagu cagggccacu cac 23

<210> 23175
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<220>
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<400> 23175
gcaguggcag ucagggccac ucac 24

<210> 23176
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<220>
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<400> 23176
ggacaccccc aggcucac 18

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<220>
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<400> 23177
aggacacccc caggcucac 19

<210> 23178
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<220>
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<400> 23178
gaggacaccc ccaggcucac 20

<210> 23179
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<220>
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<400> 23179
ugaggacacc cccaggcuca c 21

<210> 23180
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<220>
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<400> 23180
cugaggacac ccccaggcuc ac 22

<210> 23181
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<220>
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<400> 23181
gcugaggaca cccccaggcu cac 23

<210> 23182
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<220>
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<400> 23182
agcugaggac acccccaggc ucac 24

<210> 23183
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<220>
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<400> 23183
ggcagccugg gugcucac 18

<210> 23184
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<220>
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<400> 23184
gggcagccug ggugcucac 19

<210> 23185
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<220>
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<400> 23185
ggggcagccu gggugcucac 20

<210> 23186
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<220>
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<400> 23186
uggggcagcc ugggugcuca c 21

<210> 23187
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<220>
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<400> 23187
auggggcagc cugggugcuc ac 22

<210> 23188
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<220>
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<400> 23188
aauggggcag ccugggugcu cac 23

<210> 23189
<211> 24
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<220>
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<400> 23189
gaaugggggca gccugggugc ucac 24

<210> 23190
<211> 18
<212> RNA
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<220>
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<400> 23190
gucacagucc aggcggac 18

<210> 23191
<211> 19
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<220>
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<400> 23191
ugucacaguc caggcggac 19

<210> 23192
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<220>
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<400> 23192
augucacagu ccaggcggac 20

<210> 23193
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<220>
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<400> 23193
aaugucacag uccaggcgga c 21

<210> 23194
<211> 22
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<220>
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<400> 23194
caaugucaca guccaggcgg ac 22

<210> 23195
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<220>
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<400> 23195
ucaaugucac aguccaggcg gac 23

<210> 23196
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<220>
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<400> 23196
gucaauguca caguccaggc ggac 24

<210> 23197
<211> 18
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<220>
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<400> 23197
gcauugaugu agucggac 18

<210> 23198
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<220>
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<400> 23198
ggcauugaug uagucggac 19

<210> 23199
<211> 20
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<213> Artificial Sequence

<220>
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<400> 23199
uggcauugau guagucggac 20

<210> 23200
<211> 21
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<220>
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<400> 23200
uuggcauuga uguagucgga c 21

<210> 23201
<211> 22
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<220>
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<400> 23201
guuggcauug auguagucgg ac 22

<210> 23202
<211> 23
<212> RNA
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<220>
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<400> 23202
aguuggcauu gauguagucg gac 23

<210> 23203
<211> 24
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<220>
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<400> 23203
uaguuggcau ugauguaguc ggac 24

<210> 23204
<211> 18
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<220>
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<400> 23204
gcacgcugca ugcccacc 18

<210> 23205
<211> 19
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<220>
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<400> 23205
agcacgcugc augcccacc 19

<210> 23206
<211> 20
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<220>
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<400> 23206
aagcacgcug caugcccacc 20

<210> 23207
<211> 21
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<220>
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<400> 23207
uaagcacgcu gcaugcccac c 21

<210> 23208
<211> 22
<212> RNA
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<220>
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<400> 23208
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<210> 23209
<211> 23
<212> RNA
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<220>
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<400> 23209
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<210> 23210
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<220>
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<400> 23210
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<210> 23211
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<220>
<223> Synthetic oligonucleotide: Ptpn6-3880

<400> 23211
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<210> 23212
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<220>
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<400> 23212
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<210> 23213
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<220>
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<400> 23213
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<210> 23214
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<400> 23214
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<210> 23215
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<400> 23215
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<210> 23216
<211> 23
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<220>
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<400> 23216
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<210> 23217
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<400> 23217
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<210> 23218
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<220>
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<400> 23218
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<400> 23219
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<210> 23220
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<220>
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<400> 23220
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<210> 23221
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<400> 23221
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<210> 23222
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<400> 23222
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<210> 23223
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<220>
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<400> 23223
guuggcauug auguagucgg acc 23

<210> 23224
<211> 24
<212> RNA
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<220>
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<400> 23224
aguuggcauu gauguagucg gacc 24

<210> 23225
<211> 18
<212> RNA
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<220>
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<400> 23225
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<210> 23226
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<220>
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<400> 23226
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<210> 23227
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<220>
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<400> 23227
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<210> 23228
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<220>
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<400> 23228
cccacugugu agcguccacc c 21

<210> 23229
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<220>
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<400> 23229
acccacugug uagcguccac cc 22

<210> 23230
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<220>
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<400> 23230
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<210> 23231
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<220>
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<400> 23231
ccacccacug uguagcgucc accc 24

<210> 23232
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<220>
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<400> 23232
ccagccuugg cuguaucc 18

<210> 23233
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<220>
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<400> 23233
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<210> 23234
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<220>
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<400> 23234
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<210> 23235
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<220>
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<400> 23235
aagccagccu uggcuguauc c 21

<210> 23236
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<220>
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<400> 23236
gaagccagcc uuggcuguau cc 22

<210> 23237
<211> 23
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<220>
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<400> 23237
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<210> 23238
<211> 24
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<220>
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<400> 23238
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<210> 23239
<211> 18
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<220>
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<400> 23239
ugcaccucaa acuccucc 18

<210> 23240
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<220>
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<400> 23240
augcaccuca aacuccucc 19

<210> 23241
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<400> 23241
caugcaccuc aaacuccucc 20

<210> 23242
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<400> 23242
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<210> 23243
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<220>
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<400> 23243
accaugcacc ucaaacuccu cc 22

<210> 23244
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<220>
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<400> 23244
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<210> 23245
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<220>
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<400> 23245
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<210> 23246
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<220>
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<400> 23246
cucccgaauc aggucucc 18

<210> 23247
<211> 19
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<220>
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<400> 23247
ucucccgaau caggucucc 19

<210> 23248
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<220>
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<400> 23248
aucucccgaa ucaggucucc 20

<210> 23249
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<220>
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<400> 23249
gaucucccga aucaggucuc c 21

<210> 23250
<211> 22
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<220>
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<400> 23250
agaucucccg aaucaggucu cc 22

<210> 23251
<211> 23
<212> RNA
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<220>
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<400> 23251
cagaucuccc gaaucagguc ucc 23

<210> 23252
<211> 24
<212> RNA
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<220>
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<400> 23252
ccagaucucc cgaaucaggu cucc 24

<210> 23253
<211> 18
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<220>
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<400> 23253
uugguggaga uguucucc 18

<210> 23254
<211> 19
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<220>
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<400> 23254
cuugguggag auguucucc 19

<210> 23255
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<212> RNA
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<220>
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<400> 23255
ccuuggugga gauguucucc 20

<210> 23256
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<220>
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<400> 23256
cccuuggugg agauguucuc c 21

<210> 23257
<211> 22
<212> RNA
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<220>
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<400> 23257
acccuuggug gagauguucu cc 22

<210> 23258
<211> 23
<212> RNA
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<220>
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<400> 23258
cacccuuggu ggagauguuc ucc 23

<210> 23259
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-3923

<400> 23259
ucacccuugg uggagauguu cucc 24

<210> 23260
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<220>
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<400> 23260
aaaugcucca ccaggucc 18

<210> 23261
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<220>
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<400> 23261
gaaaugcucc accaggucc 19

<210> 23262
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<220>
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<400> 23262
ugaaaugcuc caccaggucc 20

<210> 23263
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<220>
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<400> 23263
uugaaaugcu ccaccagguc c 21

<210> 23264
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<220>
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<400> 23264
cuugaaaugc uccaccaggu cc 22

<210> 23265
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<220>
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<400> 23265
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<210> 23266
<211> 24
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<220>
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<400> 23266
uucuugaaau gcuccaccag gucc 24

<210> 23267
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<220>
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<400> 23267
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<210> 23268
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<220>
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<400> 23268
ccgcugguug aucuggucc 19

<210> 23269
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<220>
<223> Synthetic oligonucleotide: Ptpn6-364

<400> 23269
gccgcugguu gaucuggucc 20

<210> 23270
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<220>
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<400> 23270
ugccgcuggu ugaucugguc c 21

<210> 23271
<211> 22
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<220>
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<400> 23271
cugccgcugg uugaucuggu cc 22

<210> 23272
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<220>
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<400> 23272
ccugccgcug guugaucugg ucc 23

<210> 23273
<211> 24
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<220>
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<400> 23273
uccugccgcu gguugaucug gucc 24

<210> 23274
<211> 18
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<220>
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<400> 23274
ccacucacau uguccagc 18

<210> 23275
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<220>
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<400> 23275
gccacucaca uuguccagc 19

<210> 23276
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<220>
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<400> 23276
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<210> 23277
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<220>
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<400> 23277
gggccacuca cauuguccag c 21

<210> 23278
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<220>
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<400> 23278
ggggccacuc acauugucca gc 22

<210> 23279
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<220>
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<400> 23279
gggggccacu cacauugucc agc 23

<210> 23280
<211> 24
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<220>
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<400> 23280
uggggccac ucacauuguc cagc 24

<210> 23281
<211> 18
<212> RNA
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<220>
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<400> 23281
gcagguagac aaaggcgc 18

<210> 23282
<211> 19
<212> RNA
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<220>
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<400> 23282
cgcagguaga caaaggcgc 19

<210> 23283
<211> 20
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<220>
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<400> 23283
ccgcagguag acaaaggcgc 20

<210> 23284
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<220>
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<400> 23284
gccgcaggua gacaaaggcg c 21

<210> 23285
<211> 22
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<220>
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<400> 23285
ugccgcaggu agacaaaggc gc 22

<210> 23286
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<210> 23321
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<210> 23329
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<210> 23404
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<210> 23405
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<210> 23406
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<210> 23420
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<220>
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<210> 23425
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ucacugggga ccccaugg 18

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<220>
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<210> 23432
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<220>
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<210> 23433
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<210> 23434
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<210> 23435
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<210> 23436
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<210> 23441
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<210> 23442
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<220>
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<220>
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<210> 23445
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<220>
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<220>
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<400> 23446
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<210> 23447
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<220>
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<400> 23447
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<210> 23448
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<220>
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<210> 23449
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<210> 23452
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<220>
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<210> 23454
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<210> 23455
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<220>
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<210> 23456
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<220>
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<210> 23457
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<400> 23457
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<220>
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<210> 23459
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<210> 23460
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<210> 23461
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<210> 23462
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<210> 23463
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<220>
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<210> 23464
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<220>
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<210> 23465
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<220>
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<210> 23466
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<220>
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<400> 23467
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<210> 23468
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<220>
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<210> 23469
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<220>
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<220>
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<220>
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<210> 23474
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<400> 23474
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<210> 23475
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<220>
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<400> 23475
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<210> 23476
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<400> 23476
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<210> 23477
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<400> 23477
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<210> 23478
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<400> 23478
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<210> 23479
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<210> 23480
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<210> 23481
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<210> 23483
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<400> 23483
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<210> 23484
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<400> 23484
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<210> 23485
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<220>
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<400> 23485
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<210> 23486
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<210> 23488
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<220>
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<210> 23489
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<210> 23490
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<210> 23491
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<220>
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<220>
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<210> 23493
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<220>
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<210> 23494
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<220>
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uccaccaggu ccgugaggcu g 21

<210> 23495
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<220>
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<400> 23495
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<210> 23496
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<400> 23496
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<210> 23497
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<220>
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<400> 23497
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<210> 23498
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<220>
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<400> 23498
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<210> 23499
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<220>
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<210> 23500
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<220>
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<210> 23501
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<210> 23502
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<220>
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<210> 23503
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<220>
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<210> 23504
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<220>
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<400> 23504
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<210> 23505
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<210> 23506
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<220>
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<400> 23506
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<210> 23507
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<220>
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<400> 23507
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<210> 23508
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<220>
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<210> 23509
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<220>
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<400> 23509
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<210> 23510
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<220>
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<210> 23511
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<220>
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ucugcaaacu cugagaugug ggug 24

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<210> 23513
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<220>
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<210> 23514
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<220>
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<210> 23515
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<220>
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<400> 23515
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<210> 23516
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<210> 23517
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<400> 23517
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<210> 23518
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<220>
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<210> 23519
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<220>
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<400> 23519
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<210> 23520
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<220>
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<210> 23521
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<400> 23521
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<210> 23522
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<220>
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<400> 23522
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<210> 23523
<211> 22
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<220>
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<400> 23523
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<210> 23524
<211> 23
<212> RNA
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<220>
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<400> 23524
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<210> 23525
<211> 24
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<220>
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<400> 23525
gacagcaccg cucacuuccu cuug 24

<210> 23526
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<220>
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aggucuuagc guucucau 18

<210> 23527
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<220>
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uaggucuuag cguucucau 19

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<210> 23529
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<400> 23529
uguaggucuu agcguucuca u 21

<210> 23530
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<210> 23531
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<220>
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<210> 23533
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<400> 23533
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<210> 23534
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<400> 23534
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<400> 23535
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<210> 23536
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<400> 23536
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<210> 23537
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<400> 23537
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<210> 23538
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<400> 23538
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<210> 23539
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<400> 23539
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<210> 23540
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<220>
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<210> 23541
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<220>
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<400> 23541
ggacaccccc aggcucacu 19

<210> 23542
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<220>
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<400> 23542
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<220>
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<400> 23543
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<210> 23544
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<220>
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<400> 23544
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<210> 23545
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<400> 23545
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<210> 23546
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<210> 23547
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<220>
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<400> 23547
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<210> 23548
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<220>
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<220>
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<210> 23551
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<220>
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<400> 23551
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<210> 23552
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<220>
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<400> 23552
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<210> 23553
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<220>
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<400> 23553
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<210> 23554
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<220>
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<400> 23554
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<220>
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<400> 23555
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<210> 23556
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<220>
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<220>
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<400> 23557
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<210> 23558
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<220>
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<400> 23558
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<210> 23559
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<220>
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<400> 23559
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<210> 23560
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<220>
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<400> 23560
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<210> 23561
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<220>
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<400> 23561
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<210> 23562
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<220>
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<400> 23562
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<210> 23563
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<220>
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<210> 23564
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<220>
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<400> 23564
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<210> 23565
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<220>
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<210> 23566
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<220>
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<400> 23566
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<210> 23567
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<400> 23567
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<210> 23568
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<220>
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<400> 23568
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<210> 23569
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<220>
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<400> 23569
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<220>
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<400> 23570
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<210> 23571
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<220>
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<400> 23571
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<210> 23572
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<210> 23573
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<220>
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<400> 23573
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<210> 23574
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<220>
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<400> 23574
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<210> 23575
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<220>
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<400> 23575
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<210> 23576
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<220>
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<400> 23576
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<210> 23577
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<220>
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<400> 23577
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<210> 23578
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<220>
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<400> 23578
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<210> 23579
<211> 22
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<220>
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<400> 23579
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<210> 23580
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<220>
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<400> 23580
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<210> 23581
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<220>
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<400> 23581
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<210> 23582
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<220>
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<400> 23582
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<210> 23583
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<220>
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<400> 23583
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<210> 23584
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<220>
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<400> 23584
caugcccacc ucgggccagu 20

<210> 23585
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<220>
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<400> 23585
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<210> 23586
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<220>
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<400> 23586
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<210> 23587
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<220>
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<400> 23587
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<210> 23588
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<400> 23588
gcugcaugcc caccucgggc cagu 24

<210> 23589
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<400> 23589
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<210> 23590
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<220>
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<400> 23590
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<210> 23591
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<220>
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<400> 23591
agcggggaga ccuguaaggu 20

<210> 23592
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<220>
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<400> 23592
cagcggggag accuguaagg u 21

<210> 23593
<211> 22
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<220>
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<400> 23593
ccagcgggga gaccuguaag gu 22

<210> 23594
<211> 23
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<220>
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<400> 23594
uccagcgggg agaccuguaa ggu 23

<210> 23595
<211> 24
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4221

<400> 23595
guccagcggg gagaccugua aggu 24

<210> 23596
<211> 18
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<220>
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<400> 23596
cacucacuug gacgaggu 18

<210> 23597
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<220>
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<400> 23597
ccacucacuu ggacgaggu 19

<210> 23598
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<220>
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<400> 23598
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<210> 23599
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<220>
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<400> 23599
ggccacucac uuggacgagg u 21

<210> 23600
<211> 22
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<220>
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<400> 23600
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<210> 23601
<211> 23
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<220>
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<400> 23601
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<210> 23602
<211> 24
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<220>
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<400> 23602
cagggccacu cacuuggacg aggu 24

<210> 23603
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<220>
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<400> 23603
aaacucugag augugggu 18

<210> 23604
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<220>
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<400> 23604
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<210> 23605
<211> 20
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<220>
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<400> 23605
gcaaacucug agaugugggu 20

<210> 23606
<211> 21
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<220>
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<400> 23606
ugcaaacucu gagauguggg u 21

<210> 23607
<211> 22
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<220>
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<400> 23607
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<210> 23608
<211> 23
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<220>
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<400> 23608
ucugcaaacu cugagaugug ggu 23

<210> 23609
<211> 24
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<220>
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<400> 23609
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<210> 23610
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<220>
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<400> 23610
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<210> 23611
<211> 19
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<220>
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<400> 23611
ucagggccua gcagcuggu 19

<210> 23612
<211> 20
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<220>
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<400> 23612
aucagggccu agcagcuggu 20

<210> 23613
<211> 21
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<220>
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<400> 23613
caucagggcc uagcagcugg u 21

<210> 23614
<211> 22
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<220>
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<400> 23614
ucaucagggc cuagcagcug gu 22

<210> 23615
<211> 23
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<220>
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<400> 23615
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<210> 23616
<211> 24
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<220>
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<400> 23616
ucucaucagg gccuagcagc uggu 24

<210> 23617
<211> 18
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<220>
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<400> 23617
caccgcucac uuccucuu 18

<210> 23618
<211> 19
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<220>
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<400> 23618
gcaccgcuca cuuccucuu 19

<210> 23619
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4244

<400> 23619
agcaccgcuc acuuccucuu 20

<210> 23620
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<220>
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<400> 23620
cagcaccgcu cacuuccucu u 21

<210> 23621
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<220>
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<400> 23621
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<210> 23622
<211> 23
<212> RNA
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<220>
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<400> 23622
gacagcaccg cucacuuccu cuu 23

<210> 23623
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<220>
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<400> 23623
ggacagcacc gcucacuucc ucuu 24

<210> 23624
<211> 18
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<220>
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<400> 23624
aacaagaggg aggagaaa 18

<210> 23625
<211> 19
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<220>
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<400> 23625
gaacaagagg gaggagaaa 19

<210> 23626
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<220>
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<400> 23626
agaacaagag ggaggagaaa 20

<210> 23627
<211> 21
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<220>
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<400> 23627
aagaacaaga gggaggagaa a 21

<210> 23628
<211> 22
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<220>
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<400> 23628
uaagaacaag agggaggaga aa 22

<210> 23629
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<220>
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<400> 23629
cuaagaacaa gagggaggag aaa 23

<210> 23630
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<220>
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<400> 23630
acuaagaaca agagggagga gaaa 24

<210> 23631
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<220>
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<400> 23631
ccugcacacu aagaacaa 18

<210> 23632
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<220>
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<400> 23632
accugcacac uaagaacaa 19

<210> 23633
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<220>
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<400> 23633
aaccugcaca cuaagaacaa 20

<210> 23634
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<220>
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<400> 23634
gaaccugcac acuaagaaca a 21

<210> 23635
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<220>
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<400> 23635
agaaccugca cacuaagaac aa 22

<210> 23636
<211> 23
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<220>
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<400> 23636
gagaaccugc acacuaagaa caa 23

<210> 23637
<211> 24
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<220>
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<400> 23637
ugagaaccug cacacuaaga acaa 24

<210> 23638
<211> 18
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<220>
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<400> 23638
gagcaagggu ucccucaa 18

<210> 23639
<211> 19
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<220>
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<400> 23639
agagcaaggg uucccucaa 19

<210> 23640
<211> 20
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<220>
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<400> 23640
aagagcaagg guucccucaa 20

<210> 23641
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<213> Artificial Sequence

<220>
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<400> 23641
gaagagcaag gguucccuca a 21

<210> 23642
<211> 22
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<220>
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<400> 23642
agaagagcaa ggguucccuc aa 22

<210> 23643
<211> 23
<212> RNA
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<220>
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<400> 23643
gagaagagca aggguucccu caa 23

<210> 23644
<211> 24
<212> RNA
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<220>
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<400> 23644
ggagaagagc aaggguuccc ucaa 24

<210> 23645
<211> 18
<212> RNA
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<220>
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<400> 23645
ggguucccuc aagaggaa 18

<210> 23646
<211> 19
<212> RNA
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<220>
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<400> 23646
aggguucccu caagaggaa 19

<210> 23647
<211> 20
<212> RNA
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<220>
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<400> 23647
aaggguuccc ucaagaggaa 20

<210> 23648
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<400> 23648
caaggguucc cucaagagga a 21

<210> 23649
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<400> 23649
gcaaggguuc ccucaagagg aa 22

<210> 23650
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<220>
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<400> 23650
agcaaggguu cccucaagag gaa 23

<210> 23651
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<223> Synthetic oligonucleotide: Ptpn6-4273

<400> 23651
gagcaagggu ucccucaaga ggaa 24

<210> 23652
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<220>
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<400> 23652
gagaaccgag uguuggaa 18

<210> 23653
<211> 19
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<220>
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<400> 23653
ugagaaccga guguuggaa 19

<210> 23654
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<220>
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<400> 23654
uugagaaccg aguguuggaa 20

<210> 23655
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<220>
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<400> 23655
auugagaacc gaguguugga a 21

<210> 23656
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<220>
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<400> 23656
cauugagaac cgaguguugg aa 22

<210> 23657
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<220>
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<400> 23657
acauugagaa ccgaguguug gaa 23

<210> 23658
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<400> 23658
gacauugaga accgaguguu ggaa 24

<210> 23659
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<220>
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<400> 23659
ggggcaagua cagacaca 18

<210> 23660
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<220>
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<400> 23660
gggggcaagu acagacaca 19

<210> 23661
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<400> 23661
gggggggcaag uacagacaca 20

<210> 23662
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<220>
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<400> 23662
agggggggcaa guacagacac a 21

<210> 23663
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<220>
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<400> 23663
caggggggca aguacagaca ca 22

<210> 23664
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4284

<400> 23664
gcaggggggc aaguacagac aca 23

<210> 23665
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<220>
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<400> 23665
ugcaggggggg caaguacaga caca 24

<210> 23666
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<400> 23666
agcagcgguc agcagaca 18

<210> 23667
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<220>
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<400> 23667
aagcagcggu cagcagaca 19

<210> 23668
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<220>
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<400> 23668
gaagcagcgg ucagcagaca 20

<210> 23669
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<220>
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<400> 23669
agaagcagcg gucagcagac a 21

<210> 23670
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<220>
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<400> 23670
aagaagcagc ggucagcaga ca 22

<210> 23671
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<220>
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<400> 23671
gaagaagcag cggucagcag aca 23

<210> 23672
<211> 24
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<220>
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<400> 23672
ugaagaagca gcggucagca gaca 24

<210> 23673
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<400> 23673
gggugaaugc ggcugaca 18

<210> 23674
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<220>
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<400> 23674
agggugaaug cggcugaca 19

<210> 23675
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<220>
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<400> 23675
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<210> 23676
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<220>
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<400> 23676
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<210> 23677
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<220>
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<400> 23677
acgaggguga augcggcuga ca 22

<210> 23678
<211> 23
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4296

<400> 23678
cacgagggug aaugcggcug aca 23

<210> 23679
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<220>
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<400> 23679
ccacgagggu gaaugcggcu gaca 24

<210> 23680
<211> 18
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<220>
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<400> 23680
ccgaccaugg ggucccca 18

<210> 23681
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<220>
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<400> 23681
cccgaccaug gggucccca 19

<210> 23682
<211> 20
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<220>
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<400> 23682
gcccgaccau ggggucccca 20

<210> 23683
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<220>
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<400> 23683
ggcccgacca uggggucccc a 21

<210> 23684
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4301

<400> 23684
uggcccgacc augggguccc ca 22

<210> 23685
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<220>
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<400> 23685
cuggcccgac cauggggucc cca 23

<210> 23686
<211> 24
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<220>
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<400> 23686
gcuggcccga ccaugggguc ccca 24

<210> 23687
<211> 18
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<220>
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<400> 23687
cuggaagggc agcggcca 18

<210> 23688
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<220>
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<400> 23688
ucuggaaggg cagcggcca 19

<210> 23689
<211> 20
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<220>
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<400> 23689
gucuggaagg gcagcggcca 20

<210> 23690
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<220>
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<400> 23690
cgucuggaag ggcagcggcc a 21

<210> 23691
<211> 22
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<220>
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<400> 23691
gcgucuggaa gggcagcggc ca 22

<210> 23692
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<213> Artificial Sequence

<220>
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<400> 23692
agcgucugga agggcagcgg cca 23

<210> 23693
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4309

<400> 23693
cagcgucugg aagggcagcg gcca 24

<210> 23694
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<220>
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<400> 23694
uugucaucga caugcuca 18

<210> 23695
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<220>
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<400> 23695
auugucaucg acaugcuca 19

<210> 23696
<211> 20
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<220>
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<400> 23696
cauugucauc gacaugcuca 20

<210> 23697
<211> 21
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<220>
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<400> 23697
ucauugucau cgacaugcuc a 21

<210> 23698
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4313

<400> 23698
aucauuguca ucgacaugcu ca 22

<210> 23699
<211> 23
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<220>
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<400> 23699
caucauuguc aucgacaugc uca 23

<210> 23700
<211> 24
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<220>
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<400> 23700
ccaucauugu caucgacaug cuca 24

<210> 23701
<211> 18
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<220>
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<400> 23701
uggccaucgc ccaguuca 18

<210> 23702
<211> 19
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<220>
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<400> 23702
guggccaucg cccaguuca 19

<210> 23703
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<220>
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<400> 23703
cguggccauc gcccaguuca 20

<210> 23704
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<400> 23704
acguggccau cgcccaguuc a 21

<210> 23705
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<220>
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<400> 23705
uacguggcca ucgcccaguu ca 22

<210> 23706
<211> 23
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<220>
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<400> 23706
cuacguggcc aucgcccagu uca 23

<210> 23707
<211> 24
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<220>
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<400> 23707
ucuacguggc caucgcccag uuca 24

<210> 23708
<211> 18
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<220>
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<400> 23708
ugcacacuaa gaacaaga 18

<210> 23709
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<220>
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<400> 23709
cugcacacua agaacaaga 19

<210> 23710
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<220>
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<400> 23710
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<210> 23711
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<220>
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<400> 23711
accugcacac uaagaacaag a 21

<210> 23712
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<220>
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<400> 23712
aaccugcaca cuaagaacaa ga 22

<210> 23713
<211> 23
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<220>
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<400> 23713
gaaccugcac acuaagaaca aga 23

<210> 23714
<211> 24
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<220>
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<400> 23714
agaaccugca cacuaagaac aaga 24

<210> 23715
<211> 18
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<220>
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<400> 23715
uggagcauuu caagaaga 18

<210> 23716
<211> 19
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<220>
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<400> 23716
guggagcauu ucaagaaga 19

<210> 23717
<211> 20
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<220>
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<400> 23717
gguggagcau uucaagaaga 20

<210> 23718
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<220>
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<400> 23718
ugguggagca uuucaagaag a 21

<210> 23719
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<220>
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<400> 23719
cugguggagc auuucaagaa ga 22

<210> 23720
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<220>
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<400> 23720
ccugguggag cauuucaaga aga 23

<210> 23721
<211> 24
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<220>
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<400> 23721
accuggugga gcauuucaag aaga 24

<210> 23722
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<220>
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<400> 23722
gcucgggcau ggugcaga 18

<210> 23723
<211> 19
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<220>
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<400> 23723
cgcucgggca uggugcaga 19

<210> 23724
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<220>
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<400> 23724
gcgcucgggc auggugcaga 20

<210> 23725
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<220>
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<400> 23725
agcgcucggg cauggugcag a 21

<210> 23726
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<220>
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<400> 23726
cagcgcucgg gcauggugca ga 22

<210> 23727
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<220>
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<400> 23727
gcagcgcucg ggcauggugc aga 23

<210> 23728
<211> 24
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<220>
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<400> 23728
cgcagcgcuc gggcauggug caga 24

<210> 23729
<211> 18
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<220>
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<400> 23729
cgagugaucc ugcaggga 18

<210> 23730
<211> 19
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<220>
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<400> 23730
ccgagugauc cugcaggga 19

<210> 23731
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<220>
<223> Synthetic oligonucleotide: Ptpn6-176

<400> 23731
gccgagugau ccugcaggga 20

<210> 23732
<211> 21
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<220>
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<400> 23732
agccgaguga uccugcaggg a 21

<210> 23733
<211> 22
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4343

<400> 23733
cagccgagug auccugcagg ga 22

<210> 23734
<211> 23
<212> RNA
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<220>
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<400> 23734
acagccgagu gauccugcag gga 23

<210> 23735
<211> 24
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<220>
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<400> 23735
cacagccgag ugauccugca ggga 24

<210> 23736
<211> 18
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<220>
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<400> 23736
auuucaagaa gacgggga 18

<210> 23737
<211> 19
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<220>
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<400> 23737
cauuucaaga agacgggga 19

<210> 23738
<211> 20
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<220>
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<400> 23738
gcauuucaag aagacgggga 20

<210> 23739
<211> 21
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<220>
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<400> 23739
agcauuucaa gaagacgggg a 21

<210> 23740
<211> 22
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<220>
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<400> 23740
gagcauuuca agaagacggg ga 22

<210> 23741
<211> 23
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<220>
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<400> 23741
ggagcauuuc aagaagacgg gga 23

<210> 23742
<211> 24
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<220>
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<400> 23742
uggagcauuu caagaagacg ggga 24

<210> 23743
<211> 18
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<220>
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<400> 23743
gggccaggag ucggagua 18

<210> 23744
<211> 19
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<220>
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<400> 23744
agggccagga gucggagua 19

<210> 23745
<211> 20
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<220>
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<400> 23745
aagggccagg agucggagua 20

<210> 23746
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<220>
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<400> 23746
gaagggccag gagucggagu a 21

<210> 23747
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<220>
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<400> 23747
agaagggcca ggagucggag ua 22

<210> 23748
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4356

<400> 23748
cagaagggcc aggagucgga gua 23

<210> 23749
<211> 24
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<220>
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<400> 23749
gcagaagggc caggagucgg agua 24

<210> 23750
<211> 18
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<220>
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<400> 23750
aaccugcaca cuaagaac 18

<210> 23751
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<220>
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<400> 23751
gaaccugcac acuaagaac 19

<210> 23752
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<220>
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<400> 23752
agaaccugca cacuaagaac 20

<210> 23753
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<220>
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<400> 23753
gagaaccugc acacuaagaa c 21

<210> 23754
<211> 22
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<220>
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<400> 23754
ugagaaccug cacacuaaga ac 22

<210> 23755
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-4362

<400> 23755
augagaaccu gcacacuaag aac 23

<210> 23756
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4363

<400> 23756
uaugagaacc ugcacacuaa gaac 24

<210> 23757
<211> 18
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<220>
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<400> 23757
gggcagcggc cagagaac 18

<210> 23758
<211> 19
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<220>
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<400> 23758
agggcagcgg ccagagaac 19

<210> 23759
<211> 20
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<220>
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<400> 23759
aagggcagcg gccagagaac 20

<210> 23760
<211> 21
<212> RNA

<213> Artificial Sequence

<220>
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<400> 23760
gaagggcagc ggccagagaa c 21

<210> 23761
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4367

<400> 23761
ggaagggcag cggccagaga ac 22

<210> 23762
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4368

<400> 23762
uggaagggca gcggccagag aac 23

<210> 23763
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4369

<400> 23763
cuggaagggc agcggccaga gaac 24

<210> 23764
<211> 18
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4370

<400> 23764
cgaguguugg aacugaac 18

<210> 23765
<211> 19
<212> RNA
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<220>
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<400> 23765
ccgaguguug gaacugaac 19

<210> 23766
<211> 20
<212> RNA
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<220>
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<400> 23766
accgaguguu ggaacugaac 20

<210> 23767
<211> 21
<212> RNA
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<220>
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<400> 23767
aaccgagugu uggaacugaa c 21

<210> 23768
<211> 22
<212> RNA
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<220>
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<210> 23770
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<220>
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<210> 23791
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<210> 23792
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<220>
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<210> 23797
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<210> 23798
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<210> 23799
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<220>
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<210> 23801
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<220>
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<400> 23801
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<210> 23802
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<400> 23802
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<210> 23803
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<220>
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<400> 23803
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<210> 23804
<211> 23
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<220>
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<400> 23804
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<210> 23805
<211> 24
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<400> 23805
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<210> 23806
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<220>
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<400> 23806
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<210> 23807
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<400> 23807
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<210> 23808
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<220>
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<400> 23808
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<210> 23809
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<220>
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<210> 23810
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<220>
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<400> 23810
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<210> 23811
<211> 23
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<220>
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<400> 23811
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<210> 23812
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<220>
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<400> 23812
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<210> 23813
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<220>
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<220>
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<400> 23814
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<210> 23815
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<220>
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<220>
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<400> 23816
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<210> 23817
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<400> 23817
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<210> 23818
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<400> 23818
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<210> 23819
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<220>
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<400> 23819
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<210> 23820
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<220>
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<400> 23820
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<210> 23821
<211> 19
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<220>
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<210> 23822
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<220>
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<400> 23822
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<400> 23823
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<210> 23824
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<220>
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<210> 23825
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<400> 23825
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<210> 23826
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<220>
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<400> 23826
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<210> 23827
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<400> 23827
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<400> 23828
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<400> 23829
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<210> 23830
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<220>
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<400> 23830
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<210> 23831
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<220>
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<400> 23831
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<210> 23832
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<220>
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<400> 23832
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<210> 23833
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<220>
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<400> 23833
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<210> 23834
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<400> 23834
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<210> 23835
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<220>
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<400> 23835
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<210> 23836
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<220>
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<400> 23836
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<210> 23837
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<220>
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<400> 23837
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<210> 23838
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<220>
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<210> 23839
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<220>
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<400> 23839
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<210> 23840
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<220>
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<400> 23840
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<210> 23841
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<220>
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<400> 23841
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<210> 23842
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<220>
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<400> 23842
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<210> 23843
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<220>
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<400> 23843
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<210> 23844
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<220>
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<400> 23844
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<210> 23845
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<400> 23845
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<210> 23846
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<210> 23847
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<400> 23847
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<210> 23848
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<400> 23848
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<210> 23849
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<400> 23849
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<210> 23850
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<220>
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<400> 23850
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<210> 23851
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<400> 23851
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<210> 23852
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<220>
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<400> 23852
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<210> 23853
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<220>
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<400> 23853
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<210> 23854
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<400> 23854
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<210> 23855
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<220>
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<400> 23855
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<210> 23856
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<220>
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<400> 23856
ggacauaggg ucagugccc 19

<210> 23857
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<220>
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<400> 23857
aggacauagg gucagugccc 20

<210> 23858
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<220>
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<400> 23858
gaggacauag ggucagugcc c 21

<210> 23859
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<220>
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<400> 23859
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<210> 23860
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<220>
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<400> 23860
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<210> 23861
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<220>
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<400> 23861
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<210> 23862
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<220>
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<400> 23862
aucaccuauc ccccagcc 18

<210> 23863
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<220>
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<400> 23863
caucaccuau cccccagcc 19

<210> 23864
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<220>
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<400> 23864
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<210> 23865
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<220>
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<400> 23865
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<210> 23866
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<220>
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<400> 23866
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<210> 23867
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<220>
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<400> 23867
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<210> 23868
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<220>
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<400> 23868
gggaacauca ccuaucccc agcc 24

<210> 23869
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<220>
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<400> 23869
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<210> 23870
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<220>
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<400> 23870
augggguccc cagugagcc 19

<210> 23871
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<220>
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<400> 23871
cauggggucc ccagugagcc 20

<210> 23872
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<220>
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<400> 23872
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<210> 23873
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<220>
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<400> 23873
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<210> 23874
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<220>
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<400> 23874
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<210> 23875
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<220>
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<400> 23875
cgaccauggg gucccccagug agcc 24

<210> 23876
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<220>
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<400> 23876
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<210> 23877
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<220>
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<400> 23877
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<210> 23878
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<220>
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<400> 23878
ggugcgugca gagcagggcc 20

<210> 23879
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<220>
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<400> 23879
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<210> 23880
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<220>
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<400> 23880
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<210> 23881
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<220>
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<400> 23881
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<210> 23882
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<220>
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<400> 23882
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<210> 23883
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<220>
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<400> 23883
cagcaaccgu acuaugcc 18

<210> 23884
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<220>
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<400> 23884
ucagcaaccg uacuaugcc 19

<210> 23885
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<220>
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<400> 23885
gucagcaacc guacuaugcc 20

<210> 23886
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<220>
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<400> 23886
agucagcaac cguacuaugc c 21

<210> 23887
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<220>
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<400> 23887
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<210> 23888
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<220>
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<400> 23888
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<210> 23889
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<210> 23901
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<210> 23902
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<210> 23916
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<210> 23917
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<210> 23918
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<210> 23919
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<210> 23920
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<210> 23922
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<210> 23923
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<210> 23924
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<400> 23924
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<400> 23925
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<210> 23937
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<210> 23938
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<210> 23943
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<210> 23944
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<210> 23945
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<210> 23952
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<220>
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<210> 23957
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<400> 23957
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<210> 23959
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<210> 23964
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<400> 23964
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<210> 23965
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<210> 23967
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<210> 23969
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<400> 23971
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<210> 23972
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<210> 23973
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<400> 23973
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<400> 23974
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<400> 23975
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<210> 23976
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<400> 23976
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<210> 23977
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<210> 23979
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<210> 23980
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<210> 23981
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<210> 23982
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<220>
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<210> 23983
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<210> 23984
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<220>
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<400> 23984
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<210> 23985
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<400> 23985
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<210> 23986
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<400> 23986
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<210> 23987
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<400> 23987
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<210> 23988
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<400> 23988
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<210> 23989
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<220>
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<210> 23990
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<220>
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<210> 23991
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<220>
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<400> 23991
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<210> 23992
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<220>
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<400> 23992
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<210> 23993
<211> 23
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<220>
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<400> 23993
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<210> 23994
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<220>
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<400> 23994
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<210> 23995
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<220>
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<400> 23995
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<210> 23996
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<220>
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<400> 23996
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<210> 23997
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<220>
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<400> 23997
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<210> 23998
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<210> 23999
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<210> 24001
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<210> 24002
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<220>
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<400> 24002
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<210> 24003
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<220>
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<210> 24004
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<220>
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<400> 24004
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<210> 24005
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<210> 24006
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<400> 24006
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<210> 24007
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aggagaagag caaggguucc cuc 23

<210> 24008
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<400> 24008
aaggagaaga gcaaggguuc ccuc 24

<210> 24009
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<400> 24009
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<210> 24011
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<220>
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<210> 24012
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<210> 24013
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<220>
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<400> 24013
uuuggagacc uucgacagcc uc 22

<210> 24014
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<220>
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guuuggagac cuucgacagc cuc 23

<210> 24015
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<220>
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gguuuggaga ccuucgacag ccuc 24

<210> 24016
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<220>
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<400> 24016
auugucaucg acaugcuc 18

<210> 24017
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<400> 24017
cauugucauc gacaugcuc 19

<210> 24018
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<220>
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<400> 24018
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<210> 24019
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<400> 24019
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<210> 24020
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<400> 24020
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<210> 24021
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<220>
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<400> 24021
ccaucauugu caucgacaug cuc 23

<210> 24022
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<220>
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<400> 24022
accaucauug ucaucgacau gcuc 24

<210> 24023
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<220>
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<400> 24023
agaacuugca ccagcguc 18

<210> 24024
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<220>
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<400> 24024
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<210> 24025
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<220>
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<400> 24025
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<210> 24026
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<220>
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<400> 24026
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<210> 24027
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<220>
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<400> 24027
gugaagaacu ugcaccagcg uc 22

<210> 24028
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<220>
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<400> 24028
ggugaagaac uugcaccagc guc 23

<210> 24029
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<220>
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<400> 24029
aggugaagaa cuugcaccag cguc 24

<210> 24030
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<220>
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<400> 24030
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<210> 24031
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<220>
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<400> 24031
aucgccagcc aggguuguc 19

<210> 24032
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<220>
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<210> 24033
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<220>
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<400> 24033
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<210> 24034
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<220>
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<400> 24034
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<210> 24035
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<220>
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<400> 24035
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<210> 24036
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<220>
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<400> 24036
ccuacaucgc cagccagggu uguc 24

<210> 24037
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<220>
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<400> 24037
cccccggaga ccugauuc 18

<210> 24038
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<220>
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<400> 24038
gcccccggag accugauuc 19

<210> 24039
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<220>
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<400> 24039
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<210> 24040
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<220>
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<400> 24040
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<210> 24041
<211> 22
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<220>
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<400> 24041
agugcccccg gagaccugau uc 22

<210> 24042
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<220>
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<400> 24042
cagugccccc ggagaccuga uuc 23

<210> 24043
<211> 24
<212> RNA
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<220>
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<400> 24043
ucagugcccc cggagaccug auuc 24

<210> 24044
<211> 18
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<220>
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<400> 24044
gggggugucc ucagcuuc 18

<210> 24045
<211> 19
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<220>
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<400> 24045
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<210> 24046
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<220>
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<400> 24046
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<210> 24047
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<220>
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<400> 24047
ccuggggugg uccucagcuu c 21

<210> 24048
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<220>
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<400> 24048
gccugggggu guccucagcu uc 22

<210> 24049
<211> 23
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<220>
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<400> 24049
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<210> 24050
<211> 24
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<220>
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<400> 24050
gagccugggg guguccucag cuuc 24

<210> 24051
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<220>
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<400> 24051
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<210> 24052
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<220>
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<400> 24052
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<210> 24053
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<220>
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<400> 24053
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<210> 24054
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<220>
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<400> 24054
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<210> 24055
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<220>
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<400> 24055
ggauacagcc aaggcuggcu uc 22

<210> 24056
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<220>
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<400> 24056
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<210> 24057
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<220>
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<400> 24057
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<210> 24058
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<220>
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<400> 24058
gaccuggugg agcauuuc 18

<210> 24059
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<400> 24059
ggaccuggug gagcauuuc 19

<210> 24060
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<220>
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<400> 24060
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<210> 24061
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<220>
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<400> 24061
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<210> 24062
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<220>
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<400> 24062
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<210> 24063
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<220>
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<400> 24063
ucacggaccu gguggagcau uuc 23

<210> 24064
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<220>
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<400> 24064
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<210> 24065
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<220>
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<400> 24065
cugcacacua agaacaag 18

<210> 24066
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<220>
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<400> 24066
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<210> 24067
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<220>
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<400> 24067
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<210> 24068
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<220>
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<400> 24068
aaccugcaca cuaagaacaa g 21

<210> 24069
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<220>
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<400> 24069
gaaccugcac acuaagaaca ag 22

<210> 24070
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<220>
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<400> 24070
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<210> 24071
<211> 24
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<220>
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<400> 24071
gagaaccugc acacuaagaa caag 24

<210> 24072
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<400> 24072
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<210> 24073
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<220>
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<400> 24073
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<210> 24074
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<220>
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<400> 24074
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<210> 24075
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<220>
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<400> 24075
aagcagcggu cagcagacaa g 21

<210> 24076
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<220>
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<400> 24076
gaagcagcgg ucagcagaca ag 22

<210> 24077
<211> 23
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<220>
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<400> 24077
agaagcagcg gucagcagac aag 23

<210> 24078
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<220>
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<400> 24078
aagaagcagc ggucagcaga caag 24

<210> 24079
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<220>
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<400> 24079
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<210> 24080
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<220>
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<400> 24080
gagcaagggu ucccucaag 19

<210> 24081
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<220>
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<400> 24081
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<210> 24082
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<400> 24082
aagagcaagg guucccucaa g 21

<210> 24083
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<220>
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<400> 24083
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<210> 24084
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<220>
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<400> 24084
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<210> 24085
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<220>
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<400> 24085
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<210> 24086
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<220>
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<400> 24086
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<210> 24087
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<220>
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<400> 24087
guuggaacug aacaagaag 19

<210> 24088
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<220>
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<400> 24088
uguuggaacu gaacaagaag 20

<210> 24089
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<220>
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<400> 24089
guguuggaac ugaacaagaa g 21

<210> 24090
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<220>
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<400> 24090
aguguuggaa cugaacaaga ag 22

<210> 24091
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<220>
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<400> 24091
gaguguugga acugaacaag aag 23

<210> 24092
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<220>
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<400> 24092
cgaguguugg aacugaacaa gaag 24

<210> 24093
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<220>
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<400> 24093
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<210> 24094
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<220>
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<400> 24094
gguggagcau uucaagaag 19

<210> 24095
<211> 20
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<220>
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<400> 24095
ugguggagca uuucaagaag 20

<210> 24096
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<220>
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<400> 24096
cugguggagc auuucaagaa g 21

<210> 24097
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<220>
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<400> 24097
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<210> 24098
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<220>
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<400> 24098
accuggugga gcauuucaag aag 23

<210> 24099
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<220>
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<400> 24099
gaccuggugg agcauuucaa gaag 24

<210> 24100
<211> 18
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<220>
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<400> 24100
gaaaccacua agaagaag 18

<210> 24101
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<220>
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<400> 24101
ugaaaccacu aagaagaag 19

<210> 24102
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<220>
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<400> 24102
uugaaaccac uaagaagaag 20

<210> 24103
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<220>
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<400> 24103
auugaaacca cuaagaagaa g 21

<210> 24104
<211> 22
<212> RNA
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<220>
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<400> 24104
cauugaaacc acuaagaaga ag 22

<210> 24105
<211> 23
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<220>
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<400> 24105
ucauugaaac cacuaagaag aag 23

<210> 24106
<211> 24
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<220>
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<400> 24106
uucauugaaa ccacuaagaa gaag 24

<210> 24107
<211> 18
<212> RNA
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<220>
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<400> 24107
ucucagaguu ugcagaag 18

<210> 24108
<211> 19
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<220>
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<400> 24108
aucucagagu uugcagaag 19

<210> 24109
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<220>
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<400> 24109
caucucagag uuugcagaag 20

<210> 24110
<211> 21
<212> RNA
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<220>
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<400> 24110
acaucucaga guuugcagaa g 21

<210> 24111
<211> 22
<212> RNA
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<220>
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<400> 24111
cacaucucag aguuugcaga ag 22

<210> 24112
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4677

<400> 24112
ccacaucuca gaguuugcag aag 23

<210> 24113
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4678

<400> 24113
cccacaucuc agaguuugca gaag 24

<210> 24114
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4679

<400> 24114
uucauugaaa ccacuaag 18

<210> 24115
<211> 19
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<220>
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<400> 24115
guucauugaa accacuaag 19

<210> 24116
<211> 20
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<220>
<223> Synthetic oligonucleotide: Ptpn6-716

<400> 24116
aguucauuga aaccacuaag 20

<210> 24117
<211> 21
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<213> Artificial Sequence

<220>
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<400> 24117
caguucauug aaaccacuaa g 21

<210> 24118
<211> 22
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<220>
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<400> 24118
ccaguucauu gaaaccacua ag 22

<210> 24119
<211> 23
<212> RNA
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<220>
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<400> 24119
cccaguucau ugaaaccacu aag 23

<210> 24120
<211> 24
<212> RNA
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<220>
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<400> 24120
gcccaguuca uugaaaccac uaag 24

<210> 24121
<211> 18
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<220>
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<400> 24121
ugggaaggug guucgcag 18

<210> 24122
<211> 19
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<220>
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<400> 24122
gugggaaggu gguucgcag 19

<210> 24123
<211> 20
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<220>
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<400> 24123
agugggaagg ugguucgcag 20

<210> 24124
<211> 21
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<220>
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<400> 24124
caguggga ag gugguucgca g 21

<210> 24125
<211> 22
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<220>
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<400> 24125
acagugggaa ggugguucgc ag 22

<210> 24126
<211> 23
<212> RNA
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<220>
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<400> 24126
gacaguggga aggugguucg cag 23

<210> 24127
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-4691

<400> 24127
ggacaguggg aaggugguuc gcag 24

<210> 24128
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-4692

<400> 24128
uggcagaugg cguggcag 18

<210> 24129
<211> 19
<212> RNA
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<220>
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<400> 24129
cuggcagaug gcguggcag 19

<210> 24130
<211> 20
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<210> 24140
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<210> 24141
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<210> 24146
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<210> 24147
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<210> 24148
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<220>
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<400> 24148
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<210> 24149
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<210> 24152
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<210> 24154
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<210> 24155
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<400> 24155
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<210> 24156
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<210> 24161
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<210> 24162
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<400> 24162
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<210> 24163
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<400> 24163
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<210> 24164
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<220>
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<210> 24165
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<220>
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<400> 24165
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<400> 24166
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<210> 24167
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<400> 24167
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<210> 24168
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<400> 24168
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<210> 24169
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<220>
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<400> 24169
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<210> 24170
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<220>
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<400> 24170
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<220>
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<400> 24171
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<400> 24172
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<210> 24176
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<210> 24182
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<400> 24185
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<210> 24191
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<400> 24197
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<220>
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<400> 24198
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<210> 24199
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<220>
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<400> 24199
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<210> 24200
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<220>
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<210> 24203
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<220>
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<400> 24203
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<210> 24204
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<400> 24204
gcaguguggg ccacguggga g 21

<210> 24205
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<220>
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<400> 24205
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<210> 24206
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<220>
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<400> 24206
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<210> 24207
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<220>
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<400> 24207
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<210> 24208
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<400> 24208
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<400> 24209
gucagcagug ugggccacg 19

<210> 24210
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<400> 24210
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<210> 24211
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<400> 24211
aggucagcag ugugggccac g 21

<210> 24212
<211> 22
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<220>
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<400> 24212
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<210> 24213
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<220>
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<400> 24213
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<210> 24214
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<220>
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<400> 24214
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<210> 24215
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<220>
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<400> 24215
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<210> 24216
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<220>
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<400> 24216
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<210> 24217
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<400> 24217
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<210> 24218
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<220>
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<400> 24218
ggcaggaaag ucugccucac g 21

<210> 24219
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<400> 24219
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<210> 24220
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<220>
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<400> 24220
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<210> 24221
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<400> 24221
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<210> 24222
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<400> 24222
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<210> 24223
<211> 19
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<400> 24223
uaccuuacag gucucccg 19

<210> 24224
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<220>
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<400> 24224
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<210> 24225
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<400> 24225
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<210> 24226
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<400> 24226
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<210> 24227
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<400> 24227
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<210> 24228
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<220>
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<400> 24228
cuccguaccu uacaggucuc cccg 24

<210> 24229
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<400> 24229
acucugugac caacugcg 18

<210> 24230
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<220>
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<400> 24230
uacucuguga ccaacugcg 19

<210> 24231
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<220>
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<400> 24231
cuacucugug accaacugcg 20

<210> 24232
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<220>
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<400> 24232
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<210> 24233
<211> 22
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<220>
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<400> 24233
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<210> 24234
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<220>
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<400> 24234
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<210> 24235
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<400> 24235
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<210> 24236
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<220>
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<400> 24236
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<210> 24237
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<220>
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<400> 24237
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<210> 24238
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<220>
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<400> 24238
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<210> 24239
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<220>
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<400> 24239
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<210> 24240
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<400> 24240
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<210> 24241
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<220>
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<400> 24241
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<210> 24242
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<220>
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<400> 24242
gagggacagu gggaaggugg uucg 24

<210> 24243
<211> 18
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<220>
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<400> 24243
agaacaucuc caccaagg 18

<210> 24244
<211> 19
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<220>
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<400> 24244
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<210> 24245
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<220>
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<400> 24245
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<210> 24246
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<220>
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<400> 24246
uggagaacau cuccaccaag g 21

<210> 24247
<211> 22
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<220>
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<400> 24247
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<210> 24248
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<400> 24248
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<210> 24249
<211> 24
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<220>
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<210> 24250
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gcacacuaag aacaagagg 19

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<210> 24262
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cgucaugacc acccgagagg 20

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<210> 24268
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<210> 24278
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<210> 24284
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<210> 24285
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<210> 24290
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<210> 24291
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<210> 24292
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<210> 24298
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<210> 24299
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<210> 24311
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<210> 24332
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<400> 24332
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<210> 24333
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<210> 24334
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<400> 24334
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<400> 24335
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<400> 24337
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<210> 24338
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<400> 24338
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<210> 24339
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<400> 24339
uggaaaggga gggucgggug ggg 23

<210> 24340
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<400> 24342
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<400> 24343
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<210> 24345
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<400> 24345
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<210> 24346
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<220>
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<400> 24346
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<210> 24347
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<400> 24347
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<210> 24348
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<400> 24348
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<210> 24349
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<220>
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<210> 24350
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<210> 24351
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<210> 24352
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<400> 24352
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<210> 24353
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<220>
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<210> 24354
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<220>
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<400> 24354
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<210> 24355
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<400> 24355
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<210> 24356
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<210> 24357
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<210> 24358
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<400> 24358
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<210> 24359
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<400> 24359
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<210> 24360
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<400> 24360
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<210> 24361
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<400> 24361
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<210> 24362
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<400> 24362
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<210> 24363
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<400> 24363
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<210> 24364
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<400> 24364
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<210> 24365
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<400> 24365
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<210> 24366
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<400> 24366
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<210> 24367
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<220>
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<400> 24367
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<210> 24368
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<400> 24368
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<210> 24369
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<220>
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<400> 24369
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<210> 24370
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<210> 24375
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<210> 24376
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<400> 24376
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<400> 24377
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<210> 24380
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<210> 24381
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<210> 24382
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<210> 24383
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<400> 24383
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<400> 24384
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<210> 24385
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<210> 24386
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<210> 24387
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<210> 24388
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<210> 24389
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<210> 24390
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<210> 24391
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<400> 24392
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<210> 24394
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<210> 24395
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<210> 24396
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<210> 24397
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<210> 24398
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<210> 24400
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<210> 24401
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<210> 24402
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<400> 24402
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<210> 24403
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<400> 24403
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<210> 24404
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<220>
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<210> 24405
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<220>
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<400> 24405
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<400> 24406
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<400> 24407
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<210> 24408
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<400> 24408
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<210> 24409
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<210> 24410
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<400> 24410
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<210> 24411
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<220>
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<400> 24412
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<400> 24413
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<210> 24417
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<210> 24418
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<220>
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<210> 24421
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<210> 24422
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<210> 24423
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<210> 24424
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<400> 24424
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<400> 24428
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<210> 24429
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<400> 24429
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<210> 24430
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<400> 24430
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<210> 24431
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<400> 24434
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<210> 24436
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<400> 24436
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<210> 24437
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<210> 24438
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<400> 24438
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<210> 24439
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<400> 24440
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<210> 24441
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<400> 24441
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<210> 24443
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<210> 24445
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<210> 24446
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<210> 24450
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<210> 24451
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<210> 24452
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<220>
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<400> 24452
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<210> 24453
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<210> 24454
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<400> 24454
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<210> 24455
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<220>
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<210> 24456
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<220>
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<400> 24456
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<210> 24457
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<220>
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<210> 24458
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<400> 24458
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<210> 24459
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<400> 24459
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<210> 24460
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<220>
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<400> 24460
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<210> 24461
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<400> 24461
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<210> 24462
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<400> 24462
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<210> 24463
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<400> 24463
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<210> 24464
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<220>
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<210> 24465
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<220>
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<400> 24465
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<210> 24466
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<220>
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<400> 24466
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<210> 24467
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<220>
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<400> 24467
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<210> 24468
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<220>
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<400> 24468
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<210> 24469
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<220>
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<400> 24469
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<210> 24470
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<220>
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<400> 24470
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<210> 24471
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<220>
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<400> 24471
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<210> 24472
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<220>
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<400> 24472
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<210> 24473
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<220>
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<400> 24473
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<210> 24474
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<220>
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<400> 24474
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<210> 24475
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<220>
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<400> 24475
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<210> 24476
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<400> 24476
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<210> 24477
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<400> 24477
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<210> 24478
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<400> 24478
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<210> 24479
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<400> 24479
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<210> 24480
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<400> 24480
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<210> 24481
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<220>
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<400> 24481
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<210> 24482
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<400> 24482
gagguccugc aggugcgug 19

<210> 24483
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<220>
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<400> 24483
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<210> 24484
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<220>
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<400> 24484
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<210> 24485
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<400> 24485
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<210> 24486
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<400> 24486
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<210> 24487
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<400> 24487
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<210> 24488
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<400> 24488
augaccaccc gagaggug 18

<210> 24489
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<220>
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<400> 24489
caugaccacc cgagaggug 19

<210> 24490
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<220>
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<210> 24492
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<210> 24494
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uuugcagaag caggaggug 19

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<210> 24500
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<210> 24501
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<210> 24502
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<220>
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<400> 24502
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<210> 24503
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<220>
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<210> 24504
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<220>
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<400> 24504
gaacaucucc accaagggug 20

<210> 24505
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<220>
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<210> 24506
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<400> 24506
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<210> 24507
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<400> 24507
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<210> 24508
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<210> 24509
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<220>
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<210> 24513
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<210> 24514
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<220>
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<210> 24515
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<210> 24516
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<220>
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<220>
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<210> 24518
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<220>
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<210> 24519
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<210> 24520
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<220>
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<210> 24522
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<220>
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<210> 24523
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<220>
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<210> 24524
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<220>
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<220>
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<210> 24526
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<220>
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<400> 24526
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<210> 24528
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<210> 24531
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<220>
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<210> 24540
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<210> 24542
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<210> 24546
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<210> 24554
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<210> 24556
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<210> 24557
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<210> 24558
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<400> 24558
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<210> 24559
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<210> 24560
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<210> 24561
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<210> 24564
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<210> 24566
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<400> 24568
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<210> 24569
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<210> 24571
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<400> 24572
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<210> 24573
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<400> 24573
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<210> 24574
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<220>
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<400> 24574
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<210> 24575
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<220>
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<400> 24575
acaagaacau ucucccccu 18

<210> 24576
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<400> 24576
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<210> 24577
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<400> 24577
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<210> 24578
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<220>
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<210> 24579
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<400> 24579
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<210> 24580
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<400> 24580
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<210> 24581
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<220>
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<400> 24581
accgcuacaa gaacauucuc cccu 24

<210> 24582
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<220>
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<400> 24582
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<210> 24583
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<220>
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<400> 24583
ugcgugcaga gcagggccu 19

<210> 24584
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<220>
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<400> 24584
gugcgugcag agcagggccu 20

<210> 24585
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<220>
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<400> 24585
ggugcgugca gagcagggcc u 21

<210> 24586
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<220>
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<400> 24586
aggugcgugc agagcagggc cu 22

<210> 24587
<211> 23
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<220>
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<400> 24587
caggugcgug cagagcaggg ccu 23

<210> 24588
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<220>
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<400> 24588
gcaggugcgu gcagagcagg gccu 24

<210> 24589
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<220>
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<400> 24589
cagccaaggc uggcuucu 18

<210> 24590
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<220>
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<400> 24590
acagccaagg cuggcuucu 19

<210> 24591
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<220>
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<400> 24591
uacagccaag gcuggcuucu 20

<210> 24592
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<220>
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<400> 24592
auacagccaa ggcuggcuuc u 21

<210> 24593
<211> 22
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<213> Artificial Sequence

<220>
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<400> 24593
gauacagcca aggcuggcuu cu 22

<210> 24594
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<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5115

<400> 24594
ggauacagcc aaggcuggcu ucu 23

<210> 24595
<211> 24
<212> RNA
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<220>
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<400> 24595
aggauacagc caaggcuggc uucu 24

<210> 24596
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5117

<400> 24596
uacaucaagg ucagcagu 18

<210> 24597
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<220>
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<400> 24597
cuacaucaag gucagcagu 19

<210> 24598
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<220>
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<400> 24598
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<210> 24599
<211> 21
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<220>
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<400> 24599
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<210> 24600
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<220>
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<400> 24600
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<210> 24601
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<220>
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<400> 24601
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<210> 24602
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<220>
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<400> 24602
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<210> 24603
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<220>
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<400> 24603
ugaacaagaa gcaggagu 18

<210> 24604
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<220>
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<400> 24604
cugaacaaga agcaggagu 19

<210> 24605
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<220>
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<400> 24605
acugaacaag aagcaggagu 20

<210> 24606
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<220>
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<400> 24606
aacugaacaa gaagcaggag u 21

<210> 24607
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<220>
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<400> 24607
gaacugaaca agaagcagga gu 22

<210> 24608
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<220>
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<400> 24608
ggaacugaac aagaagcagg agu 23

<210> 24609
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<212> RNA
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<220>
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<400> 24609
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<210> 24610
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<220>
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<210> 24611
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<210> 24645
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<210> 24692
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<400> 24699
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<210> 24700
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<210> 24707
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<210> 24708
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<210> 24713
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<220>
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<400> 24714
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<210> 24718
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<220>
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<400> 24718
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<210> 24719
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<210> 24720
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<400> 24721
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<210> 24722
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<210> 24723
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<210> 24724
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<210> 24725
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<210> 24726
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<400> 24726
aggauacagc caaggcuggc uu 22

<210> 24727
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<400> 24727
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<210> 24728
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<400> 24728
cgaggauaca gccaaggcug gcuu 24

<210> 24729
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<400> 24729
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<210> 24730
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<210> 24731
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ggugggcaug cagcgugcuu 20

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<210> 24733
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<400> 24733
gaggugggca ugcagcgugc uu 22

<210> 24734
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<400> 24734
cgaggugggc augcagcgug cuu 23

<210> 24735
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ccgagguggg caugcagcgu gcuu 24

<210> 24736
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<400> 24736
gaggggcacc uggggguu 18

<210> 24737
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ugaggggcac cuggggguu 19

<210> 24738
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<400> 24738
gugaggggca ccuggggguu 20

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<210> 24740
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<220>
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<210> 24741
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<400> 24741
agggugaggg gcaccugggg guu 23

<210> 24742
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<400> 24742
aagggugagg ggcaccuggg gguu 24

<210> 24743
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<400> 24743
gcuacacagu gggugguu 18

<210> 24744
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<220>
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<400> 24744
cgcuacacag ugggugguu 19

<210> 24745
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<220>
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<400> 24745
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<210> 24746
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<220>
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<400> 24746
gacgcuacac agugggguggu u 21

<210> 24747
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<220>
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<400> 24747
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<210> 24748
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<220>
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<400> 24748
uggacgcuac acagugggug guu 23

<210> 24749
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<220>
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<400> 24749
guggacgcua cacagugggu gguu 24

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<220>
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<210> 24751
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<220>
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<400> 24751
auucggaucc agaacuc 17

<210> 24752
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<210> 24753
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<210> 24754
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<210> 24755
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<220>
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<210> 24756
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<220>
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<400> 24756
cccgaggugg gcaugca 17

<210> 24757
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<400> 24757
ggagcauuuc aagaaga 17

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<400> 24758
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<210> 24759
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<400> 24759
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<210> 24760
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<220>
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<210> 24761
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<400> 24761
cacgcaccug caggacc 17

<210> 24762
<211> 17
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<220>
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<400> 24762
ggcacugacc cuauguc 17

<210> 24763
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<220>
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<210> 24764
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<220>
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<400> 24764
ccgaggauac agccaag 17

<210> 24765
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<220>
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<400> 24765
ggucagugcc cccggag 17

<210> 24766
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<220>
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<400> 24766
guuuggggug cgucucu 17

<210> 24767
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<220>
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<400> 24767
uggcccgagg ugggcaugca 20

<210> 24768
<211> 20
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<220>
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<400> 24768
gguggagcau uucaagaaga 20

<210> 24769
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<400> 24769
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<210> 24770
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<220>
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<400> 24770
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<210> 24771
<211> 20
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<220>
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<400> 24771
gcuggugcaa guucuucacc 20

<210> 24772
<211> 20
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<220>
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<400> 24772
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<210> 24773
<211> 20
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<220>
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<210> 24774
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<220>
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<220>
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<220>
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<210> 24778
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<400> 24781
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<210> 24782
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<220>
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<400> 24782
ggaccccgau ggugccc 17

<210> 24783
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<220>
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<210> 24787
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<220>
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<210> 24788
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<210> 24789
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<220>
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<400> 24789
aagucccggg caccauc 17

<210> 24790
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<210> 24791
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<220>
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ucacaccuug cgggaag 17

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<220>
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<400> 24792
cccgagaccg cccacag 17

<210> 24793
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<220>
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<400> 24793
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<210> 24794
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<220>
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ggaaaccucu ccguagg 17

<210> 24795
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<220>
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<210> 24796
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<220>
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<400> 24796
gcuguacucc cgcuuug 17

<210> 24797
<211> 17
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<220>
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<210> 24798
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<220>
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<400> 24799
cucacguuca cacacgu 17

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<220>
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<210> 24801
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<220>
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<400> 24801
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<220>
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<400> 24802
cuccguaggc ggaaaccaaa 20

<210> 24803
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<220>
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<400> 24803
ucuccguagg cggaaaccaa 20

<210> 24804
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<220>
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<210> 24805
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<220>
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<210> 24806
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<220>
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gagguguugu gagcuaccca 20

<210> 24807
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<220>
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<210> 24808
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<220>
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<210> 24809
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<220>
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<220>
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<400> 24810
gagcggcggg guauugggua 20

<210> 24811
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<220>
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<400> 24811
aguucauagg gaccggaaac 20

<210> 24812
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<220>
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<400> 24812
ggugcccggg acuuacccac 20

<210> 24813
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<220>
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<400> 24813
ccgcaaggug ugaggacccc 20

<210> 24814
<211> 20
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<220>
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<400> 24814
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<210> 24815
<211> 20
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<220>
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<400> 24815
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<210> 24816
<211> 20
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<220>
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<400> 24816
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<210> 24817
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<220>
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<400> 24817
gaacagauac acacuugucc 20

<210> 24818
<211> 20
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<220>
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<400> 24818
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<210> 24819
<211> 20
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<220>
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<400> 24819
aagccacggc agagggccgc 20

<210> 24820
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<220>
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<400> 24820
acugugcaca gcugugccgc 20

<210> 24821
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<220>
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<400> 24821
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<210> 24822
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<220>
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<400> 24822
gcucaagcug acagagcggc 20

<210> 24823
<211> 20
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<220>
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<400> 24823
ugccaggcca auggcacugc 20

<210> 24824
<211> 20
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<220>
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<400> 24824
uggcccgaga ccgcccacag 20

<210> 24825
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<220>
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<400> 24825
uuugguuucc gccuacggag 20

<210> 24826
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<220>
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<400> 24826
agcggcgggg uauuggguag 20

<210> 24827
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<220>
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<400> 24827
uacagagaga ugcugucccg 20

<210> 24828
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<220>
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<400> 24828
agaggagcau gagugagccg 20

<210> 24829
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<400> 24829
cucaagcuga cagagcggcg 20

<210> 24830
<211> 20
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<220>
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<400> 24830
uggccuggca ggcaggaucg 20

<210> 24831
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<213> Artificial Sequence

<220>
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<400> 24831
gggggaaacc ucuccguagg 20

<210> 24832
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<220>
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<400> 24832
ucagguaggg uuaggcccug 20

<210> 24833
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<220>
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<400> 24833
ccgggggucc ucacaccuug 20

<210> 24834
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<220>
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<400> 24834
cucagguagg guuaggcccu 20

<210> 24835
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<220>
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<400> 24835
gcacucacgu ucacacacgu 20

<210> 24836
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<220>
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<400> 24836
aaugggggaa accucuccgu 20

<210> 24837
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<220>
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<400> 24837
ggucccucag cgcccugggu 20

<210> 24838
<211> 20
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<220>
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<400> 24838
agagcggcgg gguauugggu 20

<210> 24839
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<220>
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<400> 24839
acgggacagc aucucucugu 20

<210> 24840
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<220>
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<400> 24840
ugacagagcg gcgggguauu 20

<210> 24841
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<220>
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<400> 24841
ggcuguuagg gauuuuccuu 20

<210> 24842
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<220>
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<400> 24842
uaauagucuc caggaaa 17

<210> 24843
<211> 17
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<220>
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<400> 24843
ugaggaagag caaccaa 17

<210> 24844
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<220>
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<400> 24844
ccugccugcc aggccaa 17

<210> 24845
<211> 17
<212> RNA
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<220>
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<400> 24845
uggaaguaga aaugcaa 17

<210> 24846
<211> 17
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<220>
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<400> 24846
cucacaccuu gcgggaa 17

<210> 24847
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<220>
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<400> 24847
aaccugcccc gggggaa 17

<210> 24848
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<213> Artificial Sequence

<220>
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<400> 24848
gugggugggc cugcaca 17

<210> 24849
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<220>
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<400> 24849
gcaggcccac ccaccca 17

<210> 24850
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<220>
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<400> 24850
guguugugag cuaccca 17

<210> 24851
<211> 17
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<220>
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<400> 24851
ugcccgggac uuaccca 17

<210> 24852
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<220>
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<400> 24852
ggccuaaccc ugcccca 17

<210> 24853
<211> 17
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<220>
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<400> 24853
uagggagggg gaagcca 17

<210> 24854
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<220>
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<210> 24883
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cuccuucucu gaggaac 17

<210> 24889
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<210> 24890
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<210> 24891
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<210> 24892
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<210> 24893
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<210> 24898
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<210> 24899
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<210> 24903
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<210> 24904
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<210> 24905
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<210> 24907
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<210> 24908
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<210> 24909
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<400> 24913
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<210> 24914
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<220>
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<210> 24915
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<400> 24915
guggcuccuc cucuccc 17

<210> 24916
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<400> 24921
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<210> 24922
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<210> 24923
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<210> 24924
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<400> 24926
cuggacuaau agucucc 17

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<210> 24933
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<400> 24933
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<400> 24937
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<210> 24940
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<210> 24941
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<210> 24942
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<210> 24944
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<210> 24945
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<210> 24946
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<210> 24947
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<210> 24948
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<210> 24949
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<220>
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<210> 24950
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<210> 24951
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<210> 24952
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<210> 24953
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<210> 24954
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<210> 24956
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<220>
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<210> 24957
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<400> 24959
ugcccugcgc cuguuuc 17

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<210> 24961
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<210> 24962
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<400> 24962
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<210> 24963
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accugccccg ggggaag 17

<210> 24964
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<220>
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<210> 24966
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<210> 24967
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<210> 24968
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<210> 24969
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<400> 24969
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<210> 24970
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<210> 24971
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<400> 24971
gggggaagcc acggcag 17

<210> 24972
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<400> 24972
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<210> 24973
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<210> 24974
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<220>
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<400> 24974
agggaggagc uguucag 17

<210> 24975
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<400> 24975
gggaaaaugu uaaagag 17

<210> 24976
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<210> 24977
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<400> 24977
caucucucug uagggag 17

<210> 24978
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<220>
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<400> 24978
ccgccuuccc ccgggag 17

<210> 24979
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<210> 25102
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<210> 25103
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<210> 25105
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<210> 25106
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<210> 25107
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<210> 25108
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<210> 25109
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<210> 25110
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<210> 25111
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<220>
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<210> 25112
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<220>
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<400> 25112
auagucucca ggaaaaggac 20

<210> 25113
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<220>
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<210> 25114
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<220>
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<210> 25115
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<220>
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<220>
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<400> 25116
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<210> 25117
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<210> 25118
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<220>
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<210> 25119
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<220>
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<210> 25120
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<220>
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<210> 25121
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<220>
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<210> 25122
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<220>
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<210> 25123
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<220>
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<220>
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<210> 25125
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<220>
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<400> 25125
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<210> 25126
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<220>
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<210> 25127
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<220>
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<210> 25128
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<220>
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<210> 25129
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<220>
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<210> 25130
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<220>
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<210> 25131
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<220>
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<400> 25131
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<210> 25132
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<220>
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<210> 25133
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<220>
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<210> 25134
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<220>
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<210> 25135
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<220>
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<210> 25136
<211> 20
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<220>
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<210> 25137
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<220>
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<210> 25138
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<220>
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<210> 25139
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<220>
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<210> 25140
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<220>
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<400> 25140
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<210> 25141
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<220>
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<210> 25142
<211> 20
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<220>
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<210> 25143
<211> 20
<212> RNA
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<220>
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<210> 25144
<211> 20
<212> RNA
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<220>
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<400> 25144
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<210> 25145
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-986

<400> 25145
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<210> 25146
<211> 20
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<220>
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<400> 25146
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<210> 25147
<211> 20
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<220>
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<210> 25148
<211> 20
<212> RNA
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<220>
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<400> 25148
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<210> 25149
<211> 20
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<220>
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<210> 25150
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<212> RNA
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<220>
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<210> 25151
<211> 20
<212> RNA
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<220>
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<210> 25152
<211> 20
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<220>
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<210> 25153
<211> 20
<212> RNA
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<220>
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<400> 25153
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<210> 25154
<211> 20
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<213> Artificial Sequence

<220>
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<210> 25155
<211> 20
<212> RNA
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<220>
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<400> 25155
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<210> 25156
<211> 20
<212> RNA
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<220>
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<400> 25156
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<210> 25157
<211> 20
<212> RNA
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<220>
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<210> 25158
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<220>
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<210> 25159
<211> 20
<212> RNA
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<220>
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<400> 25159
gugccauugg ccuggcaggc 20

<210> 25160
<211> 20
<212> RNA
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<220>
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<400> 25160
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<210> 25161
<211> 20
<212> RNA
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<220>
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<400> 25161
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<210> 25162
<211> 20
<212> RNA
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<220>
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<400> 25162
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<210> 25163
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<212> RNA
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<220>
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<210> 25164
<211> 20
<212> RNA
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<220>
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<400> 25164
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<210> 25165
<211> 20
<212> RNA
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<220>
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<400> 25165
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<210> 25166
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<220>
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<400> 25166
aggaaaagga cagguggggc 20

<210> 25167
<211> 20
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<220>
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<400> 25167
ugcagugcca uuggccuggc 20

<210> 25168
<211> 20
<212> RNA
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<220>
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<400> 25168
cuccucccua ugguccuggc 20

<210> 25169
<211> 20
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<220>
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<400> 25169
aguacagcag gcccgccugc 20

<210> 25170
<211> 20
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<220>
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<400> 25170
uacucccgcu uuggggcugc 20

<210> 25171
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<220>
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<400> 25171
gaaggaggua cccccugugc 20

<210> 25172
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<220>
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<400> 25172
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<210> 25173
<211> 20
<212> RNA
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<220>
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<400> 25173
gguaaguccc gggcaccauc 20

<210> 25174
<211> 20
<212> RNA
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<400> 25174
gcauuucuac uuccagccuc 20

<210> 25175
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<220>
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<400> 25175
gggggaaggg gaggagccuc 20

<210> 25176
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<220>
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<400> 25176
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<210> 25177
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<220>
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<400> 25177
accauaggga ggagcuguuc 20

<210> 25178
<211> 20
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<220>
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<400> 25178
cgcugcccug cgccuguuuc 20

<210> 25179
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<220>
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<210> 25180
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<220>
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<400> 25180
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<210> 25181
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<220>
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<400> 25181
aggcaggauc gaggaggaag 20

<210> 25182
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<220>
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<400> 25182
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<210> 25183
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<220>
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<400> 25183
ucaaccugcc ccgggggaag 20

<210> 25184
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<220>
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<400> 25184
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<210> 25185
<211> 20
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<220>
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agcggcacag cugugcacag 20

<210> 25186
<211> 20
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<220>
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<400> 25186
agguguugug agcuacccag 20

<210> 25187
<211> 20
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<220>
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<400> 25187
aggcagaagc aggagcccag 20

<210> 25188
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<220>
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<400> 25188
aggggcggg gcugagccag 20

<210> 25189
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<220>
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<400> 25189
acagauacac acuuguccag 20

<210> 25190
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<220>
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<400> 25190
gccacggcag agggccgcag 20

<210> 25191
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<220>
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<400> 25191
ggagggggaa gccacggcag 20

<210> 25192
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<220>
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<400> 25192
cggaaacagg cgcagggcag 20

<210> 25193
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<220>
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<400> 25193
aaauguuaaa gagggggcag 20

<210> 25194
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<220>
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<400> 25194
cauagggagg agcuguucag 20

<210> 25195
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<220>
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<400> 25195
caggggaaaa uguuaaagag 20

<210> 25196
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<220>
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<400> 25196
uggagcucaa gcugacagag 20

<210> 25197
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<220>
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<400> 25197
cagcaucucu cuguagggag 20

<210> 25198
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<220>
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<400> 25198
gggccgccuu cccccgggag 20

<210> 25199
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<220>
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<210> 25200
<211> 20
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<220>
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ggaaguggcu gauuacugag 20

<210> 25201
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<220>
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<400> 25201
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<210> 25202
<211> 20
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<220>
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<400> 25202
aggcuccucc ccuuccccg 20

<210> 25203
<211> 20
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<220>
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<400> 25203
cagccucuca accugccccg 20

<210> 25204
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<220>
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<400> 25204
agguggcucc uccucucccg 20

<210> 25205
<211> 20
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<220>
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<400> 25205
cccccugcgg cccucugccg 20

<210> 25206
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<220>
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<400> 25206
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<210> 25207
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<220>
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<400> 25207
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<210> 25208
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<220>
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<400> 25208
guaagucccg ggcaccaucg 20

<210> 25209
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<220>
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<400> 25209
gcccaguucc ucagagaagg 20

<210> 25210
<211> 20
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<220>
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<400> 25210
ccuccucucc cgggggaagg 20

<210> 25211
<211> 20
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<220>
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<400> 25211
ggugggguggg ccugcacagg 20

<210> 25212
<211> 20
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<220>
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<400> 25212
gucuccagga aaaggacagg 20

<210> 25213
<211> 20
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<220>
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<400> 25213
gguguuguga gcuacccagg 20

<210> 25214
<211> 20
<212> RNA
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<220>
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<400> 25214
gcuccaggug gagcuccagg 20

<210> 25215
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<220>
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<400> 25215
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<210> 25216
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<220>
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<400> 25216
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<210> 25217
<211> 20
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<220>
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<400> 25217
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<210> 25218
<211> 20
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<220>
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<400> 25218
ccacggcaga gggccgcagg 20

<210> 25219
<211> 20
<212> RNA
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<220>
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<400> 25219
auagggagga gcuguucagg 20

<210> 25220
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 25220
aggggaaaau guuaaagagg 20

<210> 25221
<211> 20
<212> RNA
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<220>
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<400> 25221
ccgccuuccc ccgggagagg 20

<210> 25222
<211> 20
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<213> Artificial Sequence

<220>
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<400> 25222
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<210> 25223
<211> 20
<212> RNA
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<220>
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<400> 25223
agcaucucuc uguagggagg 20

<210> 25224
<211> 20
<212> RNA
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<220>
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<400> 25224
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<210> 25225
<211> 20
<212> RNA
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<220>
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<210> 25239
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<210> 25247
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<220>
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<210> 25248
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<220>
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<210> 25250
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<220>
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<210> 25251
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<220>
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uuaggcccag ccaggaccau 20

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<220>
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<210> 25256
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<220>
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<210> 25257
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<220>
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<210> 25258
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<220>
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<210> 25259
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<220>
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<210> 25261
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<210> 25262
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<210> 25263
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<220>
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<210> 25264
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<220>
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<210> 25265
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<220>
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<220>
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<210> 25267
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<220>
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<220>
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<210> 25271
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<220>
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<210> 25273
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<210> 25274
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<210> 25275
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<210> 25276
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<220>
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<210> 25278
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<210> 25279
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<220>
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<220>
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ugaaugaugc aggggaa 17

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<211> 17
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agugaacaag acagaca 17

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uauuuuuugu agagaca 17

<210> 25286
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<220>
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<220>
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<210> 25306
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gaggauugcu ugagccc 17

<210> 25307
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<220>
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ggaguuugag accagcc 17

<210> 25308
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<220>
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<210> 25309
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<210> 25310
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<210> 25311
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<210> 25312
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<220>
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<210> 25314
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<220>
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cgugggaggg ccuucgc 17

<210> 25315
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<220>
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<210> 25316
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<210> 25317
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<210> 25318
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uguugaauga augaugc 17

<210> 25320
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<210> 25321
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gaaaggcaga gggaauc 17

<210> 25322
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<220>
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<400> 25322
gagagauggg gguuguc 17

<210> 25323
<211> 17
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<220>
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<210> 25324
<211> 17
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<220>
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uugaaugaau gaugcag 17

<210> 25325
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<220>
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<210> 25326
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<210> 25327
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<210> 25328
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<210> 25329
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<210> 25330
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<220>
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<210> 25331
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<220>
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<400> 25331
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<210> 25332
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<220>
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<210> 25333
<211> 17
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<220>
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<210> 25334
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<220>
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<210> 25335
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<220>
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<400> 25335
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<210> 25336
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<220>
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<210> 25337
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<220>
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<210> 25338
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<220>
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<400> 25338
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<210> 25339
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<400> 25339
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<210> 25340
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<220>
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<400> 25340
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<210> 25341
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<400> 25341
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<210> 25342
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<220>
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<400> 25342
uuggugucag ucucuug 17

<210> 25343
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<220>
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<400> 25343
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<210> 25344
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<220>
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<400> 25344
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<210> 25345
<211> 17
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<220>
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<400> 25345
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<210> 25346
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<220>
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<210> 25347
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<210> 25348
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gcuggucuca aacuccu 17

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<210> 25375
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<210> 25383
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<220>
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<210> 25384
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<220>
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<220>
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<220>
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<220>
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<210> 25388
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<210> 25389
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<210> 25395
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<210> 25397
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<220>
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<210> 25398
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<220>
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<210> 25399
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<220>
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<220>
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<210> 25401
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<220>
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<210> 25402
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<220>
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<210> 25403
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<220>
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<210> 25404
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<210> 25405
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<210> 25406
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<220>
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<210> 25407
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<220>
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<210> 25408
<211> 20
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<220>
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gcggagaagu uggcuggacg 20

<210> 25409
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<210> 25410
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<220>
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<210> 25411
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ggagcuuaca uuccaguggg 20

<210> 25412
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<220>
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agaaguuggc uggacguggg 20

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<210> 25414
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<210> 25415
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<220>
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<210> 25416
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<220>
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gaaucaggga aggagagaug 20

<210> 25417
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<220>
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<210> 25418
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<220>
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gugugguggc acacguccug 20

<210> 25419
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<220>
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<210> 25420
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<220>
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<210> 25421
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<220>
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<210> 25422
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<220>
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<210> 25423
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<220>
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<210> 25424
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ggaaucaggg aaggagagau 20

<210> 25425
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<210> 25426
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<210> 25427
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<220>
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<400> 25427
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<210> 25428
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<220>
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<210> 25429
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<220>
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<210> 25430
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<220>
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<210> 25431
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<220>
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guugggaagu gcggagaagu 20

<210> 25432
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<220>
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<210> 25433
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<220>
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<210> 25434
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<220>
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augggaccaa agucugaugu 20

<210> 25435
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<400> 25435
accugugauc ccagcacugu 20

<210> 25436
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<400> 25436
cugcaaugau ccaauuuauu 20

<210> 25437
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<220>
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<400> 25437
cacuucccaa caucagacuu 20

<210> 25438
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<220>
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<400> 25438
ugggaccaaa gucugauguu 20

<210> 25439
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<220>
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<400> 25439
aauuuauugg guuauuuguu 20

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<220>
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<400> 25440
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<210> 25442
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<220>
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<210> 25443
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<220>
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<400> 25443
agcugacaga gcggcggggu a 21

<210> 25444
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<220>
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<400> 25444
aagcugacag agcggcgggg ua 22

<210> 25445
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<220>
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<400> 25445
caagcugaca gagcggcggg gua 23

<210> 25446
<211> 24
<212> RNA
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<220>
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<400> 25446
ucaagcugac agagcggcgg ggua 24

<210> 25447
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5305

<400> 25447
gcagaggagc augagugagc c 21

<210> 25448
<211> 22
<212> RNA
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<220>
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<400> 25448
ggcagaggag caugagugag cc 22

<210> 25449
<211> 23
<212> RNA
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<220>
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<400> 25449
gggcagagga gcaugaguga gcc 23

<210> 25450
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
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<400> 25450
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<210> 25451
<211> 21
<212> RNA
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<220>
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<400> 25451
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<210> 25452
<211> 22
<212> RNA
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<220>
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<400> 25452
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<210> 25453
<211> 23
<212> RNA
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<220>
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<400> 25453
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<210> 25454
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
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<400> 25454
ccagcuuccc ugcagcccca aagc 24

<210> 25455
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5313

<400> 25455
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<210> 25456
<211> 22
<212> RNA
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<220>
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<400> 25456
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<210> 25457
<211> 23
<212> RNA
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<220>
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<400> 25457
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<210> 25458
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<212> RNA
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<220>
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<400> 25458
auguuaaaga gggggcagag gagc 24

<210> 25459
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<212> RNA
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<220>
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<400> 25459
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<210> 25460
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<213> Artificial Sequence

<220>
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<400> 25460
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<210> 25461
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<212> RNA
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<400> 25461
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<210> 25462
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<212> RNA
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<220>
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<400> 25462
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<210> 25463
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<212> RNA
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<220>
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<400> 25463
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<210> 25464
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<212> RNA
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<220>
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<400> 25464
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<210> 25465
<211> 23
<212> RNA
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<220>
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<400> 25465
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<210> 25466
<211> 24
<212> RNA
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<220>
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<400> 25466
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<210> 25467
<211> 18
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<220>
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<400> 25467
acucacguuc acacacgu 18

<210> 25468
<211> 19
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<220>
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<400> 25468
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<210> 25469
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<220>
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<400> 25469
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<210> 25471
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aucgcacuca cguucacaca cgu 23

<210> 25473
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<220>
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gaucgcacuc acguucacac acgu 24

<210> 25474
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<400> 25474
ggggcagguu gagaggcugg a 21

<210> 25475
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<210> 25476
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<400> 25476
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<210> 25477
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<220>
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acuccgacgu gugugaac 18

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<220>
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<210> 25480
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<400> 25480
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<220>
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<210> 25482
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<220>
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<400> 25482
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<210> 25483
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<220>
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<400> 25483
ugcucacucc gacgugugug aac 23

<210> 25484
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<220>
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<400> 25484
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<210> 25485
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<220>
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<400> 25485
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<210> 25486
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<220>
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<210> 25487
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<220>
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<210> 25488
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<220>
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<210> 25489
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<400> 25489
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<210> 25490
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<210> 25491
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<220>
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<210> 25492
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<220>
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<210> 25493
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<220>
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<400> 25493
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<210> 25494
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<220>
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<400> 25494
gagugggucc cucagcgcc 19

<210> 25495
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<220>
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<400> 25495
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<210> 25496
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<220>
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<210> 25497
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<220>
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<400> 25497
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<210> 25498
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<220>
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<400> 25498
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<210> 25499
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<220>
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<210> 25501
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<220>
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<210> 25502
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<220>
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<400> 25502
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<210> 25503
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<220>
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<400> 25503
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<210> 25504
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<220>
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<400> 25504
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<210> 25505
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<220>
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<400> 25505
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<400> 25506
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<210> 25508
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<220>
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<210> 25509
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<220>
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<400> 25509
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<210> 25510
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<220>
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<400> 25510
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<400> 25511
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<210> 25512
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<220>
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<400> 25512
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<210> 25513
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<220>
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<400> 25513
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<210> 25514
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<220>
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<400> 25514
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<210> 25515
<211> 18
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<220>
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<400> 25515
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<210> 25516
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<220>
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<400> 25516
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<210> 25517
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<220>
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<400> 25517
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<210> 25518
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<220>
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<400> 25518
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<210> 25519
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<220>
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<400> 25519
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<210> 25520
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<220>
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<400> 25520
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<210> 25521
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<220>
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<400> 25521
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<210> 25522
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<220>
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<400> 25522
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<210> 25523
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<400> 25523
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<220>
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<210> 25525
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<400> 25525
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<210> 25526
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<220>
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<400> 25526
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<210> 25527
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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<210> 25538
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<220>
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<210> 25539
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<220>
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<400> 25539
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<220>
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<400> 25540
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<210> 25541
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<220>
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<210> 25542
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<220>
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<400> 25542
gcucaagcug acagagcgg 19

<210> 25543
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<220>
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<400> 25543
agcucaagcu gacagagcgg 20

<210> 25544
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<400> 25544
uaggguuagg cccugggg 18

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<220>
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<400> 25545
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<210> 25546
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<220>
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<400> 25546
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<210> 25547
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<220>
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<400> 25547
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<210> 25548
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<220>
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<400> 25548
cagguagggu uaggcccugg gg 22

<210> 25549
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<220>
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<400> 25549
ucagguaggg uuaggcccug ggg 23

<210> 25550
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<220>
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<400> 25550
cucagguagg guuaggcccu gggg 24

<210> 25551
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<220>
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<400> 25551
ggugggguggg ccugcaca 18

<210> 25552
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<220>
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<400> 25552
gggugggugg gccugcaca 19

<210> 25553
<211> 20
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<220>
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<400> 25553
uggguggggug ggccugcaca 20

<210> 25554
<211> 21
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<220>
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<400> 25554
cuggguggggu gggccugcac a 21

<210> 25555
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<220>
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<400> 25555
ccuggguggg ugggccugca ca 22

<210> 25556
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<220>
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<400> 25556
cccugggugg gugggccugc aca 23

<210> 25557
<211> 24
<212> RNA
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<220>
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<400> 25557
gcccugggug ggugggccug caca 24

<210> 25558
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<220>
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<400> 25558
gcagguugag aggcugga 18

<210> 25559
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<220>
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<400> 25559
ggcagguuga gaggcugga 19

<210> 25560
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<220>
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<400> 25560
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<210> 25561
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<220>
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<400> 25561
ugcuuaggac cugucccc 18

<210> 25562
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<220>
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<400> 25562
cugcuuagga ccugucccc 19

<210> 25563
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<220>
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<400> 25563
ccugcuuagg accugucccc 20

<210> 25564
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<220>
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<400> 25564
acagagagau gcuguccc 18

<210> 25565
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<220>
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<400> 25565
uacagagaga ugcuguccc 19

<210> 25566
<211> 20
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<220>
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<400> 25566
cuacagagag augcuguccc 20

<210> 25567
<211> 18
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<220>
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<400> 25567
ugguugcucu uccucagc 18

<210> 25568
<211> 19
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<220>
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<400> 25568
uugguugcuc uuccucagc 19

<210> 25569
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<220>
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<400> 25569
auugguugcu cuuccucagc 20

<210> 25570
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<220>
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<400> 25570
cggggcaggu ugagaggc 18

<210> 25571
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<220>
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<400> 25571
ccggggcagg uugagaggc 19

<210> 25572
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<220>
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<400> 25572
cccggggcag guugagaggc 20

<210> 25573
<211> 21
<212> RNA
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<220>
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<400> 25573
ccccggggca gguugagagg c 21

<210> 25574
<211> 22
<212> RNA
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<220>
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<400> 25574
cccccggggc agguugagag gc 22

<210> 25575
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<212> RNA
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<220>
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<400> 25575
ucccccgggg cagguugaga ggc 23

<210> 25576
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<212> RNA
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<220>
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<400> 25576
uucccccggg gcagguugag aggc 24

<210> 25577
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<220>
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<400> 25577
ugccauuggc cuggcagg 18

<210> 25578
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<220>
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<400> 25578
gugccauugg ccuggcagg 19

<210> 25579
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<220>
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<400> 25579
agugccauug gccuggcagg 20

<210> 25580
<211> 18
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<220>
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<400> 25580
guaagucccg ggcaccau 18

<210> 25581
<211> 19
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<220>
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<400> 25581
gguaaguccc gggcaccau 19

<210> 25582
<211> 20
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<220>
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<400> 25582
ggguaagucc cgggcaccau 20

<210> 25583
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<220>
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<400> 25583
uggguaaguc ccgggcacca u 21

<210> 25584
<211> 22
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<220>
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<400> 25584
guggguaagu cccgggcacc au 22

<210> 25585
<211> 23
<212> RNA
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<220>
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<400> 25585
cguggguaag ucccgggcac cau 23

<210> 25586
<211> 24
<212> RNA
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<220>
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<400> 25586
ccguggguaa gucccgggca ccau 24

<210> 25587
<211> 18
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<220>
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<400> 25587
cugaggaacu gggcuguu 18

<210> 25588
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<220>
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<400> 25588
ucugaggaac ugggcuguu 19

<210> 25589
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<220>
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<400> 25589
cucugaggaa cugggcuguu 20

<210> 25590
<211> 21
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<220>
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<210> 25603
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<220>
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<210> 25614
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<210> 25615
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<220>
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<210> 25620
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<210> 25621
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<400> 25621
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<210> 25622
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<220>
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<400> 25622
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<220>
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<400> 25623
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<210> 25624
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<220>
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<400> 25624
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<220>
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<210> 25626
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<220>
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<400> 25626
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<220>
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<210> 25628
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<220>
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<210> 25629
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<220>
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<400> 25629
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<210> 25633
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<220>
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<400> 25633
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<210> 25634
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<220>
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<400> 25634
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<220>
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<400> 25635
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<220>
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<220>
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<220>
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<210> 25649
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<220>
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<220>
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<210> 25655
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<220>
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<210> 25656
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<220>
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<210> 25657
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<220>
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<400> 25657
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<210> 25658
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<220>
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<220>
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<400> 25659
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<400> 25661
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<210> 25662
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<220>
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<210> 25663
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<220>
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<400> 25663
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<220>
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<220>
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<210> 25670
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<220>
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<400> 25670
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<210> 25671
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<220>
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<400> 25672
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<210> 25673
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<220>
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<210> 25674
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<400> 25675
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<400> 25676
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<210> 25682
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<220>
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<400> 25682
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<210> 25683
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<220>
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<400> 25683
cgauggugcc cgggacuuac cca 23

<210> 25684
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<220>
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<400> 25684
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<210> 25685
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<220>
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<400> 25685
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<210> 25686
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<220>
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<400> 25686
acagauacac acuugucca 19

<210> 25687
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<220>
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<400> 25687
aacagauaca cacuugucca 20

<210> 25688
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<220>
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<400> 25688
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<210> 25689
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<220>
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<400> 25689
agaacagaua cacacuuguc ca 22

<210> 25690
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<220>
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<400> 25690
gagaacagau acacacuugu cca 23

<210> 25691
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<220>
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<400> 25691
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<210> 25692
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<220>
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<400> 25692
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<210> 25693
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<220>
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<400> 25693
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<210> 25694
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<220>
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<210> 25695
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<220>
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<210> 25696
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<220>
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<400> 25696
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<210> 25697
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<220>
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<400> 25697
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<210> 25698
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<220>
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<210> 25699
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<400> 25699
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<210> 25700
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<220>
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<400> 25700
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<210> 25701
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<220>
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<400> 25701
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<210> 25702
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<400> 25702
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<210> 25703
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<220>
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<210> 25704
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<220>
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<400> 25704
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<210> 25705
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<220>
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<400> 25705
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<210> 25706
<211> 18
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<400> 25706
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<210> 25707
<211> 19
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<220>
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<400> 25707
aaauguuaaa gaggggca 19

<210> 25708
<211> 20
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<220>
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<400> 25708
aaaauguuaa agaggggca 20

<210> 25709
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<400> 25709
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<210> 25710
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<220>
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<400> 25710
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<210> 25719
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<210> 25720
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<210> 25734
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<220>
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<210> 25745
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<220>
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<210> 25747
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<210> 25752
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<210> 25754
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<210> 25768
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<210> 25769
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<220>
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<210> 25771
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<210> 25772
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<210> 25773
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<210> 25775
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<400> 25775
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<400> 25776
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<210> 25782
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<210> 25783
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<210> 25792
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<210> 25798
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<210> 25803
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<210> 25804
<211> 18
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<220>
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<210> 25805
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<210> 25806
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<220>
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<210> 25807
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<210> 25808
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<220>
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<400> 25808
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<210> 25809
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<220>
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<400> 25809
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<210> 25810
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<220>
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<400> 25811
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<220>
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<210> 25814
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<220>
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<210> 25816
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<220>
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<210> 25817
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<220>
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<210> 25818
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<220>
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<400> 25818
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<210> 25819
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<220>
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<400> 25819
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<210> 25820
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<210> 25822
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<400> 25822
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<210> 25823
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<220>
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<210> 25824
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<212> RNA
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<220>
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<400> 25824
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<210> 25825
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<400> 25825
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<210> 25826
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<220>
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<400> 25826
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<210> 25827
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<220>
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<400> 25827
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<210> 25828
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<400> 25828
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<210> 25829
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<220>
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<400> 25829
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<210> 25830
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<220>
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<400> 25830
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<210> 25831
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<220>
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<210> 25838
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<210> 25842
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<210> 25844
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<210> 25845
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<400> 25845
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<210> 25853
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<210> 25855
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<220>
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<210> 25859
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<220>
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<210> 25864
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<220>
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<210> 25865
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<210> 25866
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<210> 25873
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<220>
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<210> 25879
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<220>
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<210> 25902
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<400> 25902
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<210> 25908
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<400> 25914
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<400> 25915
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<220>
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<400> 25916
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<210> 25918
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<400> 25918
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<210> 25919
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<400> 25919
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<400> 25921
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<210> 25923
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<210> 25926
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<400> 25926
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<210> 25927
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<220>
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<400> 25927
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<210> 25928
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<210> 25929
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<220>
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<400> 25929
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<210> 25930
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<220>
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<400> 25930
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<220>
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<220>
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<400> 25933
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<210> 25934
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<220>
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<400> 25934
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<210> 25935
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<220>
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<210> 25936
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<220>
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<400> 25936
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<210> 25937
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<220>
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<400> 25937
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<210> 25938
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<220>
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<400> 25938
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<210> 25939
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<220>
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<210> 25940
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<210> 25941
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<210> 25942
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<210> 25943
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<210> 25944
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<400> 25946
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<210> 25947
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<400> 25947
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<220>
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<210> 25949
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<220>
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<210> 25950
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<220>
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<210> 25951
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<220>
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<210> 25952
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<210> 25954
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<400> 25954
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<210> 25955
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<220>
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cgauggugcc cgggacuuac cc 22

<210> 25956
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<220>
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<400> 25956
ccgauggugc ccgggacuua ccc 23

<210> 25957
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<223> Synthetic oligonucleotide: Ptpn6-3045

<400> 25957
cccgauggug cccgggacuu accc 24

<210> 25958
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<220>
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<400> 25958
ccagggccgc cuucccccc 18

<210> 25959
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<220>
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<400> 25959
uccagggccg ccuuccccc 19

<210> 25960
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<220>
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<210> 25962
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<220>
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ugguccaggg ccgccuuccc cc 22

<210> 25963
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<210> 25964
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<220>
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<400> 25964
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<210> 25965
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<220>
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agccucucaa ccugcccc 18

<210> 25966
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<220>
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<400> 25966
cagccucuca accugcccc 19

<210> 25967
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<220>
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<400> 25967
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<210> 25968
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<400> 25968
uccagccucu caaccugccc c 21

<210> 25969
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5717

<400> 25969
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<210> 25970
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<220>
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<210> 25971
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<220>
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<210> 25972
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<220>
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uccagggccg ccuucccc 18

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<220>
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<210> 25974
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<220>
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<400> 25974
gguccagggc cgccuucccc 20

<210> 25975
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<220>
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<210> 25976
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<220>
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<210> 25977
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<220>
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<400> 25977
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<210> 25978
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<220>
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<210> 25979
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<220>
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<210> 25980
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<210> 25981
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<220>
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<210> 25982
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<220>
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<400> 25982
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<210> 25983
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<220>
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<400> 25983
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<210> 25984
<211> 23
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<220>
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<400> 25984
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<210> 25985
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<220>
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<400> 25985
ggagccucag guaggguuag gccc 24

<210> 25986
<211> 18
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<220>
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<400> 25986
cagccucuca accugccc 18

<210> 25987
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<220>
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<400> 25987
ccagccucuc aaccugccc 19

<210> 25988
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<220>
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<400> 25988
uccagccucu caaccugccc 20

<210> 25989
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<220>
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<400> 25989
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<210> 25990
<211> 22
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<220>
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<400> 25990
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<210> 25991
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5736

<400> 25991
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<210> 25992
<211> 24
<212> RNA
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<220>
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<400> 25992
ccacuccagc cucucaaccu gccc 24

<210> 25993
<211> 18
<212> RNA
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<220>
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<400> 25993
guccagggcc gccuuccc 18

<210> 25994
<211> 19
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<220>
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<400> 25994
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<210> 25995
<211> 20
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<220>
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<400> 25995
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<210> 25996
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<220>
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<400> 25996
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<210> 25997
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<220>
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<400> 25997
gcugguccag ggccgccuuc cc 22

<210> 25998
<211> 23
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<220>
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<400> 25998
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<210> 25999
<211> 24
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<220>
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<400> 25999
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<210> 26000
<211> 18
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<220>
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<400> 26000
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<210> 26001
<211> 19
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<220>
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<400> 26001
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<210> 26002
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-1816

<400> 26002
aggaggcaga agcaggagcc 20

<210> 26003
<211> 21
<212> RNA
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<220>
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<400> 26003
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<210> 26004
<211> 22
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<213> Artificial Sequence

<220>
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<400> 26004
gcaggaggca gaagcaggag cc 22

<210> 26005
<211> 23
<212> RNA
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<220>
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<400> 26005
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<210> 26006
<211> 24
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<220>
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<400> 26006
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<210> 26007
<211> 18
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<400> 26007
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<210> 26008
<211> 19
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<220>
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<400> 26008
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<210> 26009
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<220>
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<400> 26009
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<210> 26010
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<220>
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<400> 26010
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<210> 26011
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<220>
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<400> 26011
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<210> 26012
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<220>
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<400> 26012
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<210> 26013
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<220>
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<400> 26013
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<210> 26014
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<220>
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<400> 26014
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<210> 26015
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<220>
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<400> 26015
uccagccucu caaccugcc 19

<210> 26016
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<220>
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<400> 26016
cuccagccuc ucaaccugcc 20

<210> 26017
<211> 21
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<220>
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<400> 26017
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<210> 26018
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<220>
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<400> 26018
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<210> 26019
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<220>
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<400> 26019
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<210> 26020
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<220>
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<400> 26020
cccacuccag ccucucaacc ugcc 24

<210> 26021
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<220>
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<220>
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<210> 26023
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<220>
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<400> 26023
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<210> 26025
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<400> 26025
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<210> 26026
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<220>
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<400> 26026
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<210> 26027
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<220>
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<400> 26027
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<210> 26028
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<220>
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<400> 26028
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<210> 26029
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<210> 26031
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<210> 26032
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<400> 26032
aaacccugga cuaauagucu cc 22

<210> 26033
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<400> 26033
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<210> 26034
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<220>
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<400> 26034
acaaacccug gacuaauagu cucc 24

<210> 26035
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<220>
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<400> 26035
acagauacac acuugucc 18

<210> 26036
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<220>
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<400> 26036
aacagauaca cacuugucc 19

<210> 26037
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<220>
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<400> 26037
gaacagauac acacuugucc 20

<210> 26038
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<220>
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<400> 26038
agaacagaua cacacuuguc c 21

<210> 26039
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<220>
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<400> 26039
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<210> 26040
<211> 23
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<220>
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<400> 26040
agagaacaga uacacacuug ucc 23

<210> 26041
<211> 24
<212> RNA
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<220>
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<400> 26041
gagagaacag auacacacuu gucc 24

<210> 26042
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<220>
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<400> 26042
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<210> 26043
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<220>
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<400> 26043
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<210> 26044
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<220>
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<400> 26044
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<210> 26045
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<220>
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<400> 26045
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<210> 26046
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<220>
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<400> 26046
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<210> 26047
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<220>
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<400> 26047
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<210> 26048
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<220>
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<400> 26048
agguccuaag caggaggcag aagc 24

<210> 26049
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<220>
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<400> 26049
gggggacagg uccuaagc 18

<210> 26050
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<220>
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<400> 26050
agggggacag guccuaagc 19

<210> 26051
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<220>
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<400> 26051
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<210> 26052
<211> 21
<212> RNA
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<220>
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<400> 26052
ccaggggggac agguccuaag c 21

<210> 26053
<211> 22
<212> RNA
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<220>
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<400> 26053
cccaggggga cagguccuaa gc 22

<210> 26054
<211> 23
<212> RNA
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<220>
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<400> 26054
acccaggggg acagguccua agc 23

<210> 26055
<211> 24
<212> RNA

<213> Artificial Sequence

<220>
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<400> 26055
uacccagggg gacagguccu aagc 24

<210> 26056
<211> 18
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5790

<400> 26056
ggcaggguua ggcccagc 18

<210> 26057
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5791

<400> 26057
gggcaggguu aggcccagc 19

<210> 26058
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<220>
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<400> 26058
ggggcagggu uaggcccagc 20

<210> 26059
<211> 21
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<220>
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<400> 26059
uggggcaggg uuaggcccag c 21

<210> 26060
<211> 22
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<220>
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<400> 26060
cuggggcagg guuaggccca gc 22

<210> 26061
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<220>
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<400> 26061
ccuggggcag gguuaggccc agc 23

<210> 26062
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<220>
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<400> 26062
cccuggggca ggguuaggcc cagc 24

<210> 26063
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<220>
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<400> 26063
agaggagcau gagugagc 18

<210> 26064
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<220>
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<400> 26064
cagaggagca ugagugagc 19

<210> 26065
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<212> RNA
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<220>
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<400> 26065
gcagaggagc augagugagc 20

<210> 26066
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<212> RNA
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<220>
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<400> 26066
ggcagaggag caugagugag c 21

<210> 26067
<211> 22
<212> RNA
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<220>
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<400> 26067
gggcagagga gcaugaguga gc 22

<210> 26068
<211> 23
<212> RNA
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<220>
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<400> 26068
ggggcagagg agcaugagug agc 23

<210> 26069
<211> 24
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<220>
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<400> 26069
gggggcagag gagcaugagu gagc 24

<210> 26070
<211> 18
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<220>
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<400> 26070
gccacggcag agggccgc 18

<210> 26071
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
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<400> 26071
agccacggca gagggccgc 19

<210> 26072
<211> 20
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-991

<400> 26072
aagccacggc agagggccgc 20

<210> 26073
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<400> 26073
gaagccacgg cagagggccg c 21

<210> 26074
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<220>
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<400> 26074
ggaagccacg gcagagggcc gc 22

<210> 26075
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5806

<400> 26075
gggaagccac ggcagagggc cgc 23

<210> 26076
<211> 24
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5807

<400> 26076
ggggaagcca cggcagaggg ccgc 24

<210> 26077
<211> 18
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<220>
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<400> 26077
aagcaggagc ccagaggc 18

<210> 26078
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<220>
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<400> 26078
gaagcaggag cccagaggc 19

<210> 26079
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<220>
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<400> 26079
agaagcagga gcccagaggc 20

<210> 26080
<211> 21
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<220>
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<400> 26080
cagaagcagg agcccagagg c 21

<210> 26081
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<212> RNA
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<220>
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<400> 26081
gcagaagcag gagcccagag gc 22

<210> 26082
<211> 23
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5812

<400> 26082
ggcagaagca ggagcccaga ggc 23

<210> 26083
<211> 24
<212> RNA
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<220>
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<400> 26083
aggcagaagc aggagcccag aggc 24

<210> 26084
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
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<400> 26084
aggugggcg gggcuggc 18

<210> 26085
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<212> RNA
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<220>
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<400> 26085
caggugggc ggggcuggc 19

<210> 26086
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-1893

<400> 26086
acaggugggg cggggcuggc 20

<210> 26087
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5816

<400> 26087
gacagguggg gcggggcugg c 21

<210> 26088
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5817

<400> 26088
ggacaggugg ggcggggcug gc 22

<210> 26089
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-5818

<400> 26089
aggacaggug gggcggggcu ggc 23

<210> 26090
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5819

<400> 26090
aaggacaggu ggggcggggc uggc 24

<210> 26091
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5820

<400> 26091
ccaggccaau ggcacugc 18

<210> 26092
<211> 19
<212> RNA
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<220>
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<400> 26092
gccaggccaa uggcacugc 19

<210> 26093
<211> 20
<212> RNA
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<220>
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<400> 26093
ugccaggcca auggcacugc 20

<210> 26094
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<220>
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<400> 26094
cugccaggcc aauggcacug c 21

<210> 26095
<211> 22
<212> RNA
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<220>
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<400> 26095
ccugccaggc caauggcacu gc 22

<210> 26096
<211> 23
<212> RNA
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<220>
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<400> 26096
gccugccagg ccaauggcac ugc 23

<210> 26097
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5825

<400> 26097
ugccugccag gccaauggca cugc 24

<210> 26098
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<220>
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<400> 26098
cugggacccc gauggugc 18

<210> 26099
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<220>
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<400> 26099
acugggaccc cgauggugc 19

<210> 26100
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<220>
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<400> 26100
gacugggacc ccgauggugc 20

<210> 26101
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5828

<400> 26101
agacugggac cccgauggug c 21

<210> 26102
<211> 22
<212> RNA
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<220>
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<400> 26102
gagacuggga ccccgauggu gc 22

<210> 26103
<211> 23
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<220>
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<400> 26103
ggagacuggg accccgaugg ugc 23

<210> 26104
<211> 24
<212> RNA
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<220>
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<400> 26104
aggagacugg gaccccgaug gugc 24

<210> 26105
<211> 18
<212> RNA
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<220>
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<400> 26105
gggguccuca caccuugc 18

<210> 26106
<211> 19
<212> RNA

<213> Artificial Sequence

<220>
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<400> 26106
ggggguccuc acaccuugc 19

<210> 26107
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-1185

<400> 26107
cgggggguccu cacaccuugc 20

<210> 26108
<211> 21
<212> RNA
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<220>
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<400> 26108
ccgggggucc ucacaccuug c 21

<210> 26109
<211> 22
<212> RNA
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<220>
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<400> 26109
gccggggguc cucacaccuu gc 22

<210> 26110
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-5836

<400> 26110
agccgggggu ccucacaccu ugc 23

<210> 26111
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5837

<400> 26111
gagccggggg uccucacacc uugc 24

<210> 26112
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5838

<400> 26112
cccuggacua auagucuc 18

<210> 26113
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5839

<400> 26113
acccuggacu aauagucuc 19

<210> 26114
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-1886

<400> 26114
aacccuggac uaauagucuc 20

<210> 26115
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5840

<400> 26115
aaacccugga cuaauagucu c 21

<210> 26116
<211> 22
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<220>
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<400> 26116
caaacccugg acuaauaguc uc 22

<210> 26117
<211> 23
<212> RNA
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<220>
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<400> 26117
acaaacccug gacuaauagu cuc 23

<210> 26118
<211> 24
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<220>
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<400> 26118
gacaaacccu ggacuaauag ucuc 24

<210> 26119
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<220>
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<400> 26119
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<220>
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<400> 26120
gcaggcccgc cugcugguc 19

<210> 26121
<211> 20
<212> RNA
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<220>
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<400> 26121
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<210> 26122
<211> 21
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<220>
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<400> 26122
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<210> 26123
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<220>
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<400> 26123
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<210> 26124
<211> 23
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<220>
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<400> 26124
uacagcaggc ccgccugcug guc 23

<210> 26125
<211> 24
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<220>
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<400> 26125
guacagcagg cccgccugcu gguc 24

<210> 26126
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<220>
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<400> 26126
aacagauaca cacuuguc 18

<210> 26127
<211> 19
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<220>
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<400> 26127
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<210> 26128
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<220>
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<400> 26128
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<210> 26129
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<220>
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<400> 26129
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<210> 26130
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<220>
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<400> 26130
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<210> 26131
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<220>
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<400> 26131
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<210> 26132
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<220>
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<400> 26132
ggagagaaca gauacacacu uguc 24

<210> 26133
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<220>
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<400> 26133
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<210> 26134
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<220>
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<400> 26134
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<210> 26135
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<220>
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<400> 26135
accauaggga ggagcuguuc 20

<210> 26136
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<220>
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<400> 26136
gaccauaggg aggagcuguu c 21

<210> 26137
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<212> RNA
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<220>
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<400> 26137
ggaccauagg gaggagcugu uc 22

<210> 26138
<211> 23
<212> RNA
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<220>
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<400> 26138
aggaccauag ggaggagcug uuc 23

<210> 26139
<211> 24
<212> RNA
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<220>
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<400> 26139
caggaccaua gggaggagcu guuc 24

<210> 26140
<211> 18
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<213> Artificial Sequence

<220>
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<400> 26140
uucccugcag ccccaaag 18

<210> 26141
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<220>
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<400> 26141
cuucccugca gccccaaag 19

<210> 26142
<211> 20
<212> RNA
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<220>
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<400> 26142
gcuucccugc agccccaaag 20

<210> 26143
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<220>
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<400> 26143
agcuucccug cagccccaaa g 21

<210> 26144
<211> 22
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<220>
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<400> 26144
cagcuucccu gcagccccaa ag 22

<210> 26145
<211> 23
<212> RNA
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<220>
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<400> 26145
ccagcuuccc ugcagcccca aag 23

<210> 26146
<211> 24
<212> RNA
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<220>
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<400> 26146
gccagcuucc cugcagcccc aaag 24

<210> 26147
<211> 18
<212> RNA
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<220>
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<400> 26147
caggggaaaa uguuaaag 18

<210> 26148
<211> 19
<212> RNA
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<220>
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<400> 26148
ccaggggaaa auguuaaag 19

<210> 26149
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<220>
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<400> 26149
uccaggggaa aauguuaaag 20

<210> 26150
<211> 21
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<220>
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<400> 26150
guccagggga aaauguuaaa g 21

<210> 26151
<211> 22
<212> RNA
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<220>
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<400> 26151
uguccagggg aaaauguuaa ag 22

<210> 26152
<211> 23
<212> RNA
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<220>
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<400> 26152
uuguccaggg gaaaauguua aag 23

<210> 26153
<211> 24
<212> RNA
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<220>
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<400> 26153
cuuguccagg ggaaaauguu aaag 24

<210> 26154
<211> 18
<212> RNA
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<220>
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<400> 26154
cuaagcagga ggcagaag 18

<210> 26155
<211> 19
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<220>
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<400> 26155
ccuaagcagg aggcagaag 19

<210> 26156
<211> 20
<212> RNA
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<220>
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<400> 26156
uccuaagcag gaggcagaag 20

<210> 26157
<211> 21
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<213> Artificial Sequence

<220>
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<400> 26157
guccuaagca ggaggcagaa g 21

<210> 26158
<211> 22
<212> RNA
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<220>
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<400> 26158
gguccuaagc aggaggcaga ag 22

<210> 26159
<211> 23
<212> RNA
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<220>
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<400> 26159
agguccuaag caggaggcag aag 23

<210> 26160
<211> 24
<212> RNA
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<220>
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<400> 26160
cagguccuaa gcaggaggca gaag 24

<210> 26161
<211> 18
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<220>
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<400> 26161
cucacaccuu gcgggaag 18

<210> 26162
<211> 19
<212> RNA
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<220>
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<400> 26162
ccucacaccu ugcgggaag 19

<210> 26163
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<220>
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<400> 26163
uccucacacc uugcgggaag 20

<210> 26164
<211> 21
<212> RNA
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<220>
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<400> 26164
guccucacac cuugcgggaa g 21

<210> 26165
<211> 22
<212> RNA
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<220>
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<400> 26165
gguccucaca ccuugcggga ag 22

<210> 26166
<211> 23
<212> RNA
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<220>
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<400> 26166
ggguccucac accuugcggg aag 23

<210> 26167
<211> 24
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<220>
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<400> 26167
gggguccuca caccuugcgg gaag 24

<210> 26168
<211> 18
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<220>
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<400> 26168
aaccugcccc gggggaag 18

<210> 26169
<211> 19
<212> RNA
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<220>
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<400> 26169
caaccugccc cgggggaag 19

<210> 26170
<211> 20
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<220>
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<400> 26170
ucaaccugcc ccgggggaag 20

<210> 26171
<211> 21
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<220>
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<400> 26171
cucaaccugc cccgggggaa g 21

<210> 26172
<211> 22
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<220>
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<400> 26172
ucucaaccug ccccgggggа ag 22

<210> 26173
<211> 23
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<220>
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<400> 26173
cucucaaccu gccccggggg aag 23

<210> 26174
<211> 24
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-5891

<400> 26174
ccucucaacc ugccccgggg gaag 24

<210> 26175
<211> 18
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<220>
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<400> 26175
gagcccagag gcuggaag 18

<210> 26176
<211> 19
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<220>
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<400> 26176
ggagcccaga ggcuggaag 19

<210> 26177
<211> 20
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<220>
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<400> 26177
aggagcccag aggcuggaag 20

<210> 26178
<211> 21
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<220>
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<400> 26178
caggagccca gaggcuggaa g 21

<210> 26179
<211> 22
<212> RNA
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<220>
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<400> 26179
gcaggagccc agaggcugga ag 22

<210> 26180
<211> 23
<212> RNA
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<220>
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<400> 26180
agcaggagcc cagaggcugg aag 23

<210> 26181
<211> 24
<212> RNA
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<220>
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<400> 26181
aagcaggagc ccagaggcug gaag 24

<210> 26182
<211> 18
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<220>
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<400> 26182
agggggacag guccuaag 18

<210> 26183
<211> 19
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<220>
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<400> 26183
caggggaca gguccuaag 19

<210> 26184
<211> 20
<212> RNA
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<220>
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<400> 26184
ccaggggac agguccuaag 20

<210> 26185
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5900

<400> 26185
cccaggggga cagguccuaa g 21

<210> 26186
<211> 22
<212> RNA
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<220>
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<400> 26186
acccaggggg acagguccua ag 22

<210> 26187
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-5902

<400> 26187
uacccagggg gacagguccu aag 23

<210> 26188
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5903

<400> 26188
cuacccaggg ggacaggucc uaag 24

<210> 26189
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5904

<400> 26189
ucuccaggaa aaggacag 18

<210> 26190
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-5905

<400> 26190
gucuccagga aaaggacag 19

<210> 26191
<211> 20
<212> RNA

<213> Artificial Sequence

<220>
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<400> 26191
agucuccagg aaaaggacag 20

<210> 26192
<211> 21
<212> RNA
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<220>
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<400> 26192
uagucuccag gaaaaggaca g 21

<210> 26193
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
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<400> 26193
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<220>
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<400> 26194
aauagucucc aggaaaagga cag 23

<210> 26195
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<220>
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<400> 26195
uaauagucuc caggaaaagg acag 24

<210> 26196
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<220>
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<400> 26196
guguugugag cuacccag 18

<210> 26197
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<220>
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<400> 26197
gguguuguga gcuacccag 19

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<220>
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<400> 26198
agguguugug agcuacccag 20

<210> 26199
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<220>
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<400> 26199
gagguguugu gagcuaccca g 21

<210> 26200
<211> 22
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<220>
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<400> 26200
ugagguguug ugagcuaccc ag 22

<210> 26201
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<220>
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<400> 26201
uugagguguu gugagcuacc cag 23

<210> 26202
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<220>
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<400> 26202
uuugaggugu ugugagcuac ccag 24

<210> 26203
<211> 18
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<220>
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<400> 26203
cacaguggcc caagccag 18

<210> 26204
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<212> RNA
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<220>
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<400> 26204
gcacaguggc ccaagccag 19

<210> 26205
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<220>
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<400> 26205
ugcacagugg cccaagccag 20

<210> 26206
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<220>
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<400> 26206
gugcacagug gcccaagcca g 21

<210> 26207
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<220>
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<400> 26207
ugugcacagu ggcccaagcc ag 22

<210> 26208
<211> 23
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<220>
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<400> 26208
cugugcacag uggcccaagc cag 23

<210> 26209
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<400> 26209
gcugugcaca guggcccaag ccag 24

<210> 26210
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<220>
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<400> 26210
agauacacac uuguccag 18

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<220>
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<400> 26211
cagauacaca cuuguccag 19

<210> 26212
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<220>
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<400> 26212
acagauacac acuuguccag 20

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<220>
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<400> 26213
aacagauaca cacuugucca g 21

<210> 26214
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<220>
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<400> 26214
gaacagauac acacuugucc ag 22

<210> 26215
<211> 23
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<220>
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<400> 26215
agaacagaua cacacuuguc cag 23

<210> 26216
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<220>
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<400> 26216
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<210> 26217
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<220>
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<400> 26217
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<210> 26218
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<220>
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<400> 26218
aauguuaaag aggggcag 19

<210> 26219
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<220>
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<400> 26219
aaauguuaaa gagggggcag 20

<210> 26220
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<220>
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<400> 26220
aaaauguuaa agagggggca g 21

<210> 26221
<211> 22
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<220>
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<400> 26221
gaaaauguua aagagggggc ag 22

<210> 26222
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<220>
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<400> 26222
ggaaaauguu aaagaggggg cag 23

<210> 26223
<211> 24
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<220>
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<400> 26223
gggaaaaugu uaaagagggg gcag 24

<210> 26224
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<220>
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<400> 26224
cagcccaguu ccucagag 18

<210> 26225
<211> 19
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<220>
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<210> 26226
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<220>
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<400> 26226
aacagcccag uuccucagag 20

<210> 26227
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<400> 26227
uaacagccca guuccucaga g 21

<210> 26228
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<220>
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<400> 26228
cuaacagccc aguuccucag ag 22

<210> 26229
<211> 23
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<220>
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<400> 26229
ccuaacagcc caguuccuca gag 23

<210> 26230
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<220>
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cccuaacagc ccaguuccuc agag 24

<210> 26231
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<220>
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cgccuucccc cgggagag 18

<210> 26232
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<220>
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<400> 26232
ccgccuuccc ccgggagag 19

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<400> 26233
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<210> 26234
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ggccgccuuc ccccgggaga g 21

<210> 26235
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gggccgccuu cccccgggag ag 22

<210> 26236
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<220>
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agggccgccu ucccccggga gag 23

<210> 26237
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<400> 26237
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<210> 26238
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<220>
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<400> 26238
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<210> 26239
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<220>
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<400> 26239
agcaucucuc uguagggag 19

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<220>
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<220>
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<400> 26241
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<210> 26242
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<210> 26243
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<220>
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<210> 26244
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<400> 26244
gggacagcau cucucuguag ggag 24

<210> 26245
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<220>
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<400> 26245
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<210> 26246
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<220>
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<220>
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<400> 26247
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<210> 26248
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<400> 26248
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<210> 26249
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<220>
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<210> 26250
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<220>
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<400> 26250
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<210> 26251
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<220>
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<400> 26251
uccagggccg ccuucccccg ggag 24

<210> 26252
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<220>
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<400> 26252
cagaggagca ugagugag 18

<210> 26253
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<220>
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<400> 26253
gcagaggagc augagugag 19

<210> 26254
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<220>
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<400> 26254
ggcagaggag caugagugag 20

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<400> 26255
gggcagagga gcaugaguga g 21

<210> 26256
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<220>
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<400> 26256
ggggcagagg agcaugagug ag 22

<210> 26257
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<220>
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<400> 26257
gggggcagag gagcaugagu gag 23

<210> 26258
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<220>
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<400> 26258
agggggcaga ggagcaugag ugag 24

<210> 26259
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<220>
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<400> 26259
ggggaaaccu cuccguag 18

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<220>
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<400> 26260
gggggaaacc ucuccguag 19

<210> 26261
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<220>
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<400> 26261
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<220>
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<400> 26262
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<210> 26263
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<220>
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<400> 26263
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<210> 26264
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<220>
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caaugggggga aaccucuccg uag 23

<210> 26265
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<220>
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<400> 26265
ccaauggggg aaaccucucc guag 24

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cggcggggua uuggguag 18

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<220>
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<400> 26267
gcggcggggu auuggguag 19

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<220>
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<400> 26268
agcggcgggg uauuggguag 20

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<220>
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<400> 26269
gagcggcggg guauugggua g 21

<210> 26270
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<400> 26270
agagcggcgg gguauugggu ag 22

<210> 26271
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<400> 26271
cagagcggcg ggguauuggg uag 23

<210> 26272
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<400> 26272
acagagcggc gggguauugg guag 24

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<400> 26273
cacucacguu cacacacg 18

<210> 26274
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<220>
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gcacucacgu ucacacacg 19

<210> 26275
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<220>
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<400> 26275
cgcacucacg uucacacacg 20

<210> 26276
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<220>
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<400> 26276
ucgcacucac guucacacac g 21

<210> 26277
<211> 22
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<220>
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<400> 26277
aucgcacuca cguucacaca cg 22

<210> 26278
<211> 23
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<220>
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<400> 26278
gaucgcacuc acguucacac acg 23

<210> 26279
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<400> 26279
agaucgcacu cacguucaca cacg 24

<210> 26280
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<220>
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<400> 26280
gccucucaac cugccccg 18

<210> 26281
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<220>
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<400> 26281
agccucucaa ccugccccg 19

<210> 26282
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<220>
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<400> 26282
cagccucuca accugccccg 20

<210> 26283
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<220>
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<400> 26283
ccagccucuc aaccugcccc g 21

<210> 26284
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<220>
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<400> 26284
uccagccucu caaccugccc cg 22

<210> 26285
<211> 23
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<220>
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<400> 26285
cuccagccuc ucaaccugcc ccg 23

<210> 26286
<211> 24
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<220>
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<400> 26286
acuccagccu cucaaccugc cccg 24

<210> 26287
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<400> 26287
agccacggca gagggccg 18

<210> 26288
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<220>
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<400> 26288
aagccacggc agagggccg 19

<210> 26289
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<220>
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<400> 26289
gaagccacgg cagagggccg 20

<210> 26290
<211> 21
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<220>
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<400> 26290
ggaagccacg gcagagggcc g 21

<210> 26291
<211> 22
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<220>
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<400> 26291
gggaagccac ggcagagggc cg 22

<210> 26292
<211> 23
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<220>
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<400> 26292
ggggaagcca cggcagaggg ccg 23

<210> 26293
<211> 24
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<220>
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<400> 26293
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<210> 26294
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<220>
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<400> 26294
gcucaagcug acagagcg 18

<210> 26295
<211> 19
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<220>
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<400> 26295
agcucaagcu gacagagcg 19

<210> 26296
<211> 20
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<220>
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<400> 26296
gagcucaagc ugacagagcg 20

<210> 26297
<211> 21
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<220>
<223> Synthetic oligonucleotide: Ptpn6-5990

<400> 26297
ggagcucaag cugacagagc g 21

<210> 26298
<211> 22
<212> RNA
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<220>
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<400> 26298
uggagcucaa gcugacagag cg 22

<210> 26299
<211> 23
<212> RNA
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<220>
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<400> 26299
cuggagcuca agcugacaga gcg 23

<210> 26300
<211> 24
<212> RNA
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<220>
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<400> 26300
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<210> 26301
<211> 18
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<220>
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<400> 26301
agggaccgga aacaggcg 18

<210> 26302
<211> 19
<212> RNA
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<220>
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<400> 26302
uagggaccgg aaacaggcg 19

<210> 26303
<211> 20
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<220>
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<400> 26303
auagggaccg gaaacaggcg 20

<210> 26304
<211> 21
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<220>
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<400> 26304
cauagggacc ggaaacaggc g 21

<210> 26305
<211> 22
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<220>
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<400> 26305
ucauagggac cggaaacagg cg 22

<210> 26306
<211> 23
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<220>
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<400> 26306
uucauaggga ccggaaacag gcg 23

<210> 26307
<211> 24
<212> RNA
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<220>
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<400> 26307
guucauaggg accggaaaca ggcg 24

<210> 26308
<211> 18
<212> RNA
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<220>
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<400> 26308
gcccacccac ccagggcg 18

<210> 26309
<211> 19
<212> RNA
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<220>
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<400> 26309
ggcccaccca cccagggcg 19

<210> 26310
<211> 20
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<213> Artificial Sequence

<220>
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<400> 26310
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<210> 26311
<211> 21
<212> RNA
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<220>
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<400> 26311
caggcccacc cacccagggc g 21

<210> 26312
<211> 22
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<220>
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<400> 26312
gcaggcccac ccacccaggg cg 22

<210> 26313
<211> 23
<212> RNA
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<220>
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<400> 26313
ugcaggccca cccacccagg gcg 23

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<220>
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<210> 26355
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<210> 26396
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<210> 26397
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<220>
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<210> 26403
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<210> 26404
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<210> 26405
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<210> 26406
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<210> 26407
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<210> 26408
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<210> 26410
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<210> 26413
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<210> 26418
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<210> 26422
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<210> 26423
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<220>
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<400> 26423
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<210> 26424
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<210> 26425
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<210> 26426
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<210> 26428
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<210> 26429
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<210> 26430
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<210> 26431
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<210> 26432
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<210> 26442
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<210> 26443
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<400> 26443
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<400> 26444
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<210> 26445
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<210> 26446
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<210> 26447
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<400> 26447
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<210> 26448
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<400> 26448
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<220>
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<400> 26452
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<210> 26453
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<210> 26454
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<220>
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<210> 26459
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<210> 26460
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<210> 26461
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<210> 26462
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<400> 26462
aaaauguuaa agaggggg 18

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<220>
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<400> 26463
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<220>
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<210> 26467
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<210> 26468
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<210> 26469
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<220>
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<220>
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<210> 26474
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<220>
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<210> 26475
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<210> 26476
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<400> 26483
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<220>
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<400> 26484
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<220>
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<220>
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<210> 26488
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<210> 26489
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<400> 26493
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<210> 26494
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<220>
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<400> 26494
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<210> 26495
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<400> 26495
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<210> 26496
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<400> 26496
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<400> 26497
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<210> 26502
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<210> 26503
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<210> 26504
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<220>
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<400> 26504
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<220>
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<220>
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<210> 26508
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<400> 26508
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<210> 26509
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<220>
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<400> 26509
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<210> 26510
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<210> 26511
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<210> 26515
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<210> 26516
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<210> 26517
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<400> 26518
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<210> 26519
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<220>
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<400> 26519
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<210> 26520
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<210> 26522
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<210> 26523
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<400> 26523
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<210> 26524
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<400> 26524
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<210> 26525
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<400> 26525
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<210> 26526
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<220>
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<400> 26526
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<220>
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<400> 26528
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<210> 26529
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<210> 26530
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<400> 26530
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<210> 26531
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<400> 26531
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<210> 26532
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<400> 26532
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<210> 26533
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<220>
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<400> 26533
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<400> 26534
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<220>
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<210> 26536
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<210> 26537
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<220>
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<400> 26537
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<210> 26538
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<220>
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<400> 26538
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<400> 26539
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<210> 26540
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<400> 26540
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<400> 26541
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<220>
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<400> 26542
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<210> 26543
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<220>
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<400> 26543
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<210> 26544
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<220>
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<400> 26544
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<210> 26545
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<400> 26545
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<210> 26550
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<210> 26551
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<220>
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<400> 26551
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<210> 26552
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<220>
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<400> 26552
uacccacggg acagcaucuc ucug 24

<210> 26553
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<220>
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<400> 26553
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<210> 26554
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<210> 26555
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<220>
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agccgggggu ccucacaccu ug 22

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<400> 26566
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<210> 26567
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<210> 26570
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<210> 26571
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<210> 26572
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<210> 26573
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<210> 26574
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<220>
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aggcccagcc aggaccau 18

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<220>
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<400> 26575
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<220>
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<220>
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<210> 26579
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<210> 26580
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<210> 26581
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<210> 26584
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<210> 26585
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<210> 26586
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<400> 26588
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<210> 26589
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<220>
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<400> 26589
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<210> 26590
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<220>
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<400> 26590
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<210> 26592
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<220>
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guaggcggaa accaaagggc cu 22

<210> 26593
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<220>
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<400> 26593
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<210> 26594
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<220>
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<400> 26594
ccguaggcgg aaaccaaagg gccu 24

<210> 26595
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<220>
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<210> 26596
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<220>
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<210> 26597
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<220>
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<210> 26599
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<210> 26601
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aaaaucccua acagcccagu uccu 24

<210> 26602
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<220>
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<210> 26603
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cccacccacc cagggcgcu 19

<210> 26604
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<210> 26606
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<220>
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<400> 26606
aggcccaccc acccagggcg cu 22

<210> 26607
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<210> 26608
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<220>
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<400> 26608
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<210> 26609
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<210> 26613
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<400> 26613
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<210> 26614
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<220>
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<210> 26615
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<220>
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<400> 26615
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<210> 26616
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<400> 26616
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<220>
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<400> 26617
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<210> 26620
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<220>
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<210> 26621
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<220>
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<210> 26622
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<220>
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<210> 26623
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<220>
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<400> 26623
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<210> 26624
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<220>
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<400> 26624
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<210> 26625
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<400> 26625
agagcggcgg gguauuugggu 20

<210> 26626
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<220>
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<400> 26626
cagagcggcg ggguauuugg u 21

<210> 26627
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<400> 26627
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<210> 26628
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<220>
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<400> 26628
gacagagcgg cgggguauug ggu 23

<210> 26629
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<220>
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<400> 26629
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<220>
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<400> 26630
gggacagcau cucucugu 18

<210> 26631
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<220>
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<400> 26634
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<210> 26635
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<210> 26636
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<220>
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<400> 26636
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<210> 26637
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<400> 26637
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<400> 26638
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<210> 26639
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<220>
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<400> 26640
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<210> 26641
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<220>
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<400> 26641
gagccggggg uccucacacc uu 22

<210> 26642
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<220>
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<400> 26642
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<210> 26643
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<220>
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<400> 26643
gugagccggg gguccucaca ccuu 24

<210> 26644
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<400> 26644
ccauagggag gagcuguu 18

<210> 26645
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<220>
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<400> 26645
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<210> 26646
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<400> 26646
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<220>
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<400> 26647
ggaccauagg gaggagcugu u 21

<210> 26648
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<220>
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<400> 26648
aggaccauag ggaggagcug uu 22

<210> 26649
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<220>
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<400> 26649
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<210> 26650
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<400> 26650
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<210> 26651
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<400> 26651
ugcuauguuu gagguguu 18

<210> 26652
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<220>
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<400> 26652
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<210> 26653
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<220>
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<400> 26653
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<210> 26654
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<220>
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<400> 26654
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<210> 26655
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<220>
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<400> 26655
ugacugcuau guuugaggug uu 22

<210> 26656
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<220>
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<400> 26656
cugacugcua uguuugaggu guu 23

<210> 26657
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<220>
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<400> 26657
ucugacugcu auguuugagg uguu 24

<210> 26658
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<220>
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<210> 26659
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<220>
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<400> 26659
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<210> 26660
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<400> 26660
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<210> 26661
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<220>
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<400> 26661
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<210> 26662
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<220>
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<400> 26662
ggguaccucc uucucugagg aa 22

<210> 26663
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<220>
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<400> 26663
gggguaccuc cuucucugag gaa 23

<210> 26664
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<220>
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<400> 26664
ggggguaccu ccuucucuga ggaa 24

<210> 26665
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<220>
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<400> 26665
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<210> 26666
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<400> 26666
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<210> 26667
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<400> 26667
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<210> 26668
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<400> 26668
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<210> 26669
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<220>
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<400> 26669
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<210> 26670
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<220>
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<400> 26670
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<210> 26671
<211> 24
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<220>
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<400> 26671
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<210> 26672
<211> 18
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<220>
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<400> 26672
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<210> 26673
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<220>
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<400> 26673
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<210> 26674
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<220>
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<400> 26674
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<210> 26675
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<210> 26676
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<400> 26677
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<210> 26678
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<400> 26678
cccgugggua agucccgggc acca 24

<210> 26679
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<400> 26679
uggguggggug ggccugca 18

<210> 26680
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<210> 26681
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<400> 26681
ccuggguggg ugggccugca 20

<210> 26682
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<210> 26683
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<400> 26683
gcccugggug gguggggccug ca 22

<210> 26684
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<400> 26684
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<210> 26685
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<400> 26685
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<210> 26686
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<400> 26686
ucccgcuuug gggcugca 18

<210> 26687
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<220>
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<400> 26687
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<400> 26688
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<210> 26689
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<400> 26689
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<210> 26690
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<400> 26690
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<210> 26691
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<220>
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<400> 26691
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<210> 26692
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<220>
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<400> 26692
cuguacuccc gcuuuggggc ugca 24

<210> 26693
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6289

<400> 26693
uuggccuggc aggcagga 18

<210> 26694
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<220>
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<400> 26694
auuggccugg caggcagga 19

<210> 26695
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<220>
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<400> 26695
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<210> 26696
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<220>
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<400> 26696
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<210> 26697
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<220>
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<400> 26697
gccauuggcc uggcaggcag ga 22

<210> 26698
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<220>
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<400> 26698
ugccauuggc cuggcaggca gga 23

<210> 26699
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<220>
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<400> 26699
gugccauugg ccuggcaggc agga 24

<210> 26700
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<220>
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<400> 26700
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<210> 26701
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<220>
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<400> 26701
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<210> 26702
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<220>
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<400> 26702
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<210> 26703
<211> 21
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<220>
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<400> 26703
cuccuguuag uuuuggaggg a 21

<210> 26704
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6298

<400> 26704
ucuccuguua guuuuggagg ga 22

<210> 26705
<211> 23
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6299

<400> 26705
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<210> 26706
<211> 24
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6300

<400> 26706
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<210> 26707
<211> 18
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<220>
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<400> 26707
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<210> 26708
<211> 19
<212> RNA
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<220>
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<400> 26708
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<210> 26709
<211> 20
<212> RNA
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<220>
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<400> 26709
agucuccugu uaguuuugga 20

<210> 26710
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<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6303

<400> 26710
cagucuccug uuaguuuugg a 21

<210> 26711
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6304

<400> 26711
ccagucuccu guuaguuuug ga 22

<210> 26712
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6305

<400> 26712
cccagucucc uguuaguuuu gga 23

<210> 26713
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6306

<400> 26713
ucccagucuc cuguuaguuu ugga 24

<210> 26714
<211> 18
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<220>
<223> Synthetic oligonucleotide: Ptpn6-3273

<400> 26714
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<210> 26715
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-3274

<400> 26715
cguggcuucc cccucccua 19

<210> 26716
<211> 20
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<220>
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<400> 26716
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<210> 26717
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-6307

<400> 26717
gccguggcuu cccccucccu a 21

<210> 26718
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-6308

<400> 26718
ugccguggcu ucccccuccc ua 22

<210> 26719
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6309

<400> 26719
cugccguggc uucccccucc cua 23

<210> 26720
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6310

<400> 26720
ucugccgugg cuucccccuc ccua 24

<210> 26721
<211> 18
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<220>
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<400> 26721
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<210> 26722
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<220>
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<400> 26722
gcccuuuggu uuccgccua 19

<210> 26723
<211> 20
<212> RNA
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<220>
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<400> 26723
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<210> 26724
<211> 21
<212> RNA
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<220>
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<400> 26724
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<210> 26725
<211> 22
<212> RNA
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<220>
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<400> 26725
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<210> 26726
<211> 23
<212> RNA
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<220>
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<400> 26726
uuaggcccuu ugguuuccgc cua 23

<210> 26727
<211> 24
<212> RNA
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<220>
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<400> 26727
cuuaggcccu uugguuuccg ccua 24

<210> 26728
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<220>
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<400> 26728
ggaggaagug gcugauua 18

<210> 26729
<211> 19
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<220>
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<400> 26729
aggaggaagu ggcugauua 19

<210> 26730
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<220>
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<400> 26730
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<400> 26731
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<210> 26732
<211> 22
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<400> 26732
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<210> 26733
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<220>
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<400> 26733
aucgaggagg aaguggcuga uua 23

<210> 26734
<211> 24
<212> RNA
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<220>
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<400> 26734
gaucgaggag gaaguggcug auua 24

<210> 26735
<211> 18
<212> RNA

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<220>
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<400> 26735
gggugggugg gccugcac 18

<210> 26736
<211> 19
<212> RNA
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<220>
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<400> 26736
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<210> 26737
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<220>
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<400> 26737
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<210> 26738
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<400> 26738
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<210> 26739
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<220>
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<400> 26739
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<210> 26740
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<220>
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<400> 26740
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<210> 26741
<211> 24
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6328

<400> 26741
cgcccugggu gggugggccu gcac 24

<210> 26742
<211> 18
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<220>
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<400> 26742
cccagggccu aacccuac 18

<210> 26743
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<220>
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<400> 26743
ccccagggcc uaacccuac 19

<210> 26744
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<220>
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<400> 26744
gccccagggc cuaacccuac 20

<210> 26745
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<220>
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<400> 26745
ugccccaggg ccuaacccua c 21

<210> 26746
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<220>
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<400> 26746
cugccccagg gccuaacccu ac 22

<210> 26747
<211> 23
<212> RNA
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<220>
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<400> 26747
ccugccccag ggccuaaccc uac 23

<210> 26748
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<212> RNA
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<220>
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<400> 26748
cccugcccca gggccuaacc cuac 24

<210> 26749
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6335

<400> 26749
aggcuccucc ccuucccc 18

<210> 26750
<211> 19
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<220>
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<400> 26750
gaggcuccuc cccuucccc 19

<210> 26751
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<220>
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<400> 26751
ugaggcuccu ccccuucccc 20

<210> 26752
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<220>
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<400> 26752
cugaggcucc uccccuuccc c 21

<210> 26753
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<220>
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<400> 26753
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<210> 26754
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<220>
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<400> 26754
accugaggcu ccuccccuuc ccc 23

<210> 26755
<211> 24
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<220>
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<400> 26755
uaccugaggc uccuccccuu cccc 24

<210> 26756
<211> 18
<212> RNA
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<220>
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<400> 26756
cugggccuaa cccugccc 18

<210> 26757
<211> 19
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<220>
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<400> 26757
gcugggccua acccugccc 19

<210> 26758
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<220>
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<400> 26758
ggcugggccu aacccugccc 20

<210> 26759
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6343

<400> 26759
uggcugggcc uaacccugcc c 21

<210> 26760
<211> 22
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<220>
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<400> 26760
cuggcugggc cuaacccugc cc 22

<210> 26761
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<220>
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<400> 26761
ccuggcuggg ccuaacccug ccc 23

<210> 26762
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<220>
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<400> 26762
uccuggcugg gccuaacccu gccc 24

<210> 26763
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6347

<400> 26763
gguggcuccu ccucuccc 18

<210> 26764
<211> 19
<212> RNA
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<220>
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<400> 26764
agguggcucc uccucuccc 19

<210> 26765
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<220>
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<400> 26765
cagguggcuc cuccucuccc 20

<210> 26766
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<220>
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<400> 26766
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<210> 26767
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<220>
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<400> 26767
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<210> 26768
<211> 23
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<220>
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<400> 26768
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<210> 26769
<211> 24
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<220>
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<400> 26769
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<210> 26770
<211> 18
<212> RNA
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<220>
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<400> 26770
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<210> 26771
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<220>
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<400> 26771
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<210> 26772
<211> 20
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<220>
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<400> 26772
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<210> 26773
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<220>
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<400> 26773
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<210> 26774
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<220>
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<400> 26774
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<210> 26775
<211> 23
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<220>
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<400> 26775
uaccugaggc uccucccccuu ccc 23

<210> 26776
<211> 24
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<220>
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<400> 26776
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<210> 26777
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<220>
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<400> 26777
ccucuuuaac auuuuccc 18

<210> 26778
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<220>
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<400> 26778
cccucuuuaa cauuuuccc 19

<210> 26779
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<220>
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<400> 26779
ccccucuuua acauuuuccc 20

<210> 26780
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<220>
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<400> 26780
cccccucuuu aacauuuucc c 21

<210> 26781
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<220>
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<400> 26781
gcccccucuu uaacauuuuc cc 22

<210> 26782
<211> 23
<212> RNA
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<220>
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<400> 26782
ugcccccucu uuaacauuuu ccc 23

<210> 26783
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<220>
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<400> 26783
cugcccccuc uuuaacauuu uccc 24

<210> 26784
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6365

<400> 26784
ucccggggga aggcggcc 18

<210> 26785
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<220>
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<400> 26785
cucccggggg aaggcggcc 19

<210> 26786
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<220>
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<400> 26786
ucucccgggg gaaggcggcc 20

<210> 26787
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<220>
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<400> 26787
cucucccggg ggaaggcggc c 21

<210> 26788
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<220>
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<400> 26788
ccucucccgg gggaaggcgg cc 22

<210> 26789
<211> 23
<212> RNA
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<220>
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<400> 26789
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<210> 26790
<211> 24
<212> RNA
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<220>
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<400> 26790
cuccucuccc gggggaaggc ggcc 24

<210> 26791
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6371

<400> 26791
agguggcucc uccucucc 18

<210> 26792
<211> 19
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6372

<400> 26792
cagguggcuc cuccucucc 19

<210> 26793
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-1182

<400> 26793
ccagguggcu ccuccucucc 20

<210> 26794
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6373

<400> 26794
uccagguggc uccuccucuc c 21

<210> 26795
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6374

<400> 26795
cuccaggugg cuccuccucu cc 22

<210> 26796
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Ptpn6-6375

<400> 26796
gcuccaggug gcuccuccuc ucc 23

<210> 26797
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<210> 26818
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<400> 26818
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<210> 26819
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<400> 26819
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<210> 26820
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<400> 26820
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<210> 26821
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<400> 26821
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<210> 26822
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<210> 26823
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<210> 26824
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<400> 26824
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<210> 26825
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<400> 26825
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<400> 26826
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<220>
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<400> 26828
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<210> 26830
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<400> 26830
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<210> 26831
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<220>
<223> Synthetic oligonucleotide: Ptpn6-6405

<400> 26831
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<210> 26832
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<400> 26832
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<210> 26833
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<220>
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<400> 26833
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<400> 26836
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<220>
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<400> 26837
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<220>
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<400> 26838
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<210> 26839
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<210> 26840
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<400> 26840
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<210> 26841
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<220>
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<400> 26841
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<210> 26842
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<220>
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<400> 26842
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<210> 26843
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<220>
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<400> 26843
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<210> 26844
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<220>
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<400> 26844
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<210> 26845
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<220>
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<400> 26845
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<210> 26846
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<400> 26846
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<210> 26847
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<400> 26847
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<210> 26848
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<220>
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<400> 26848
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<210> 26849
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<400> 26849
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<210> 26850
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<210> 26852
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<210> 26853
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<210> 26854
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<220>
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<210> 26855
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<220>
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<400> 26855
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<210> 26856
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<220>
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<210> 26858
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<210> 26859
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<400> 26859
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<210> 26861
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<400> 26861
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<210> 26862
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<400> 26862
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<210> 26863
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<220>
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<400> 26863
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<210> 26864
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<220>
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<400> 26864
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<210> 26865
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<220>
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<400> 26865
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<210> 26866
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<400> 26866
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<210> 26867
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<400> 26867
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<210> 26868
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<400> 26868
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<400> 26869
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<400> 26870
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<210> 26871
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<220>
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<400> 26872
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<210> 26874
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<400> 26874
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<400> 26875
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<400> 26876
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<400> 26879
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<400> 26881
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<210> 26884
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<400> 26884
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<210> 26885
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<400> 26885
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<210> 26886
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<400> 26886
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<210> 26887
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<400> 26887
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<210> 26888
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<400> 26888
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<210> 26889
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<400> 26889
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<210> 26890
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<400> 26890
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<210> 26891
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<220>
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<400> 26891
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<210> 26892
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<400> 26892
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<210> 26893
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<220>
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<400> 26893
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<210> 26894
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<220>
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<400> 26894
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<210> 26895
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<220>
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<400> 26895
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<210> 26896
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<220>
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<400> 26896
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<210> 26897
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<220>
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<210> 26898
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<220>
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<400> 26898
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<210> 26899
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<400> 26899
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<210> 26900
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<210> 26901
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<220>
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<210> 26902
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<210> 26903
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<400> 26903
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<210> 26904
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<400> 26904
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<210> 26905
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<210> 26906
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<400> 26906
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<210> 26907
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<210> 26908
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<400> 26908
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<210> 26909
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<220>
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<210> 26913
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<210> 26914
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<210> 26915
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<210> 26916
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<210> 26917
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<220>
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<220>
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<210> 26951
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<210> 26952
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<220>
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<220>
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<210> 26957
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<220>
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<210> 26959
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<210> 26964
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<220>
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<210> 26971
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<210> 26973
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<220>
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<220>
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<210> 26978
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<210> 26979
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<400> 26983
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<210> 26984
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<210> 26985
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<210> 26991
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<210> 26993
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<220>
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<210> 27005
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<210> 27006
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<210> 27007
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<210> 27008
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<400> 27008
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<210> 27009
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<220>
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<400> 27009
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<210> 27010
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<220>
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<210> 27011
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<220>
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<400> 27011
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<210> 27012
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<220>
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<400> 27012
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<210> 27013
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<220>
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<400> 27013
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<210> 27014
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<220>
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<400> 27014
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<210> 27015
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<220>
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<210> 27016
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<220>
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<400> 27016
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<210> 27017
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<220>
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<210> 27018
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<220>
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<400> 27018
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<210> 27019
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<220>
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<400> 27019
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<210> 27020
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<220>
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<400> 27020
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<210> 27021
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<220>
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<400> 27021
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<210> 27022
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<220>
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<400> 27022
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<210> 27023
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<220>
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<400> 27023
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<210> 27024
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<220>
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<400> 27024
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<210> 27025
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<220>
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<400> 27025
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<210> 27026
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<220>
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<400> 27026
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<210> 27027
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<400> 27027
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<210> 27028
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<400> 27028
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<210> 27029
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<400> 27029
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<210> 27030
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<210> 27031
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<400> 27031
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<210> 27032
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<220>
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<400> 27032
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<210> 27033
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<400> 27033
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<210> 27034
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<400> 27034
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<210> 27035
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<220>
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<400> 27035
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<210> 27036
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<220>
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<400> 27036
cugcuucugc cuccugcu 18

<210> 27037
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<220>
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<400> 27037
ccugcuucug ccuccugcu 19

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<210> 27089
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<210> 27097
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<210> 27132
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<210> 27133
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<220>
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<210> 27136
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<220>
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<210> 27137
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<210> 27138
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<220>
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<210> 27139
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<220>
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<210> 27140
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<220>
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<210> 27143
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<210> 27145
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<220>
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<210> 27146
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<220>
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<210> 27147
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<220>
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<210> 27148
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<210> 27151
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<210> 27152
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<210> 27153
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<220>
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<210> 27154
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<220>
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<210> 27155
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<210> 27265
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<210> 27266
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<210> 27268
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<210> 27273
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<210> 27276
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<210> 27383
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<210> 27384
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<210> 27467
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<210> 27488
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<400> 27488
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<220>
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<210> 27503
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<210> 27508
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<210> 27510
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<210> 27516
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<400> 27606
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<210> 27617
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<210> 27618
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<400> 27621
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<400> 27622
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<400> 27626
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<210> 27637
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<400> 27637
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<210> 27639
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<210> 27736
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<210> 27737
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<210> 27739
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<210> 27740
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<210> 27741
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<210> 27744
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acugacauca acuccaa 17

<210> 27745
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<210> 27758
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gcucaccaga gguagga 17

<210> 27761
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<210> 27762
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<400> 27921
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<400> 27927
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<210> 27942
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<210> 27943
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<210> 27944
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<210> 27945
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<210> 27946
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<210> 27947
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<210> 27951
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uuggagauuc augagaaccu 20

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<210> 27959
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<220>
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<220>
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<210> 27972
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<210> 27974
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aagacuaaaa cuuacuuggu gc 22

<210> 27975
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<210> 27976
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gaaagacuaa aacuuacuug gugc 24

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<210> 27984
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<210> 27985
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<210> 27986
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<400> 27992
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<210> 27993
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<220>
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<210> 27994
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<220>
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caucugcacu ugguauucug ggu 23

<210> 27995
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<210> 27996
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<210> 27997
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<210> 27998
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<210> 27999
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<210> 28003
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<210> 28005
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ccaagugacu gacaucaacu cca 23

<210> 28006
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<210> 28007
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<210> 28008
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<400> 28008
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<210> 28009
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<220>
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<210> 28010
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<210> 28027
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<210> 28048
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<400> 28048
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<220>
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<210> 28056
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<210> 28064
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<210> 28070
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uuuuuuucua gaugugaaca 20

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ugugaacaug gaaucauca 19

<210> 28083
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<400> 28083
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<210> 28084
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<220>
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<210> 28085
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<400> 28090
uggugagccc ucuccugc 18

<210> 28091
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<210> 28099
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<220>
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<210> 28100
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<210> 28101
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<220>
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<400> 28101
ugugugauga aggacauggu 20

<210> 28102
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caccugccca aggaaaaa 18

<210> 28103
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<220>
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<400> 28103
ucaccugccc aaggaaaaa 19

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<210> 28107
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<210> 28108
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<400> 28108
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<210> 28109
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<220>
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<400> 28109
ucugcauuug gaagaaaa 18

<210> 28110
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<220>
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<210> 28111
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<220>
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cuucugcauu uggaagaaaa 20

<210> 28112
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<220>
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<210> 28113
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<220>
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<400> 28113
aucuucugca uuuggaagaa aa 22

<210> 28114
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<220>
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caucuucugc auuuggaaga aaa 23

<210> 28115
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<400> 28115
acaucuucug cauuuggaag aaaa 24

<210> 28116
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<220>
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<400> 28116
ucaccugccc aaggaaaa 18

<210> 28117
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<220>
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<400> 28117
uucaccugcc caaggaaaa 19

<210> 28118
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<220>
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<400> 28118
uuucaccugc ccaaggaaaa 20

<210> 28119
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<220>
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<400> 28120
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<210> 28121
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<220>
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<400> 28121
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<210> 28122
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<220>
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<400> 28122
uuccuuucac cugcccaagg aaaa 24

<210> 28123
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<220>
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<400> 28123
guugagcaau ccuccgaa 18

<210> 28124
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<400> 28124
uguugagcaa uccuccgaa 19

<210> 28125
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<210> 28126
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<210> 28127
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<210> 28128
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<220>
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<210> 28129
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<220>
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<400> 28129
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<210> 28130
<211> 18
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<220>
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<400> 28130
uuuccuuuca ccugccca 18

<210> 28131
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<220>
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<400> 28131
cuuuccuuuc accugccca 19

<210> 28132
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<220>
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<400> 28132
gcuuuccuuu caccugccca 20

<210> 28133
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<220>
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<210> 28134
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<220>
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<400> 28134
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<210> 28135
<211> 23
<212> RNA
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<220>
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<400> 28135
cuagcuuucc uuucaccugc cca 23

<210> 28136
<211> 24
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<210> 28243
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<210> 28244
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<210> 28249
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<210> 28370
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<400> 28407
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<210> 28468
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<210> 28485
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<220>
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<210> 28491
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<210> 28492
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<210> 28503
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<210> 28888
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<400> 28953
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<210> 28958
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<210> 28962
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<210> 28963
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<210> 28964
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<220>
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<210> 28966
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<210> 28967
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<210> 28968
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<210> 28969
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<210> 28970
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<210> 28971
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<220>
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<210> 28972
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<220>
<223> Synthetic oligonucleotide: FAS-2979

<400> 28972
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<220>
<223> Synthetic oligonucleotide: FAS-2980

<400> 28973
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<210> 28974
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<220>
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<210> 28975
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<210> 28976
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<220>
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<210> 28977
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<210> 28978
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<210> 28979
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<220>
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<220>
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<210> 28981
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<220>
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<210> 28982
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<220>
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<210> 28984
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<220>
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<210> 28985
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<400> 28985
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<210> 28986
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uguccaagac acagcagaa 19

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<210> 28993
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<210> 28994
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<210> 29093
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<210> 29096
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<210> 29097
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<210> 29098
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<210> 29104
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<210> 29105
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<210> 29109
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<210> 29110
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<210> 29111
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<210> 29112
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<220>
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<210> 29114
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<400> 29114
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<210> 29125
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<210> 29126
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<400> 29149
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<220>
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<220>
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<210> 29161
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<400> 29165
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<210> 29167
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<220>
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<210> 29173
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<210> 29182
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<400> 29182
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<400> 29183
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<210> 29184
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<400> 29185
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<210> 29186
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<400> 29186
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<400> 29187
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<210> 29188
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<400> 29188
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<210> 29189
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<400> 29190
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<210> 29194
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<210> 29195
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<210> 29196
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<210> 29200
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<210> 29202
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<210> 29203
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<400> 29204
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<210> 29207
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<210> 29209
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<400> 29211
guaacauacc uggagga 17

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<400> 29212
ugacugacau caacucc 17

<210> 29213
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<400> 29213
auguuacaca aaacauc 17

<210> 29214
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<220>
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ccauugacug ugcaguc 17

<210> 29215
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<220>
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<400> 29215
ggugagugug cauuccu 17

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<220>
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aguaaguuuu agucuuu 17

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<400> 29219
guuuccaaac ugauuuu 17

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<220>
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<220>
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<400> 29221
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<210> 29222
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<220>
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<400> 29222
aagugacuga caucaacucc 20

<210> 29223
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<220>
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<400> 29223
gguauguuac acaaaacauc 20

<210> 29224
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<210> 29225
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<210> 29226
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<220>
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<400> 29226
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<210> 29227
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<210> 29228
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<400> 29228
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<210> 29229
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<220>
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<400> 29231
uuucuuccaa augcagaaga 20

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<400> 29232
gaaagaagcg uaugaca 17

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uuguuuuuca cucuaga 17

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<400> 29234
uuuucucugc aagagua 17

<210> 29235
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<220>
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uucacucuag accaagc 17

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<210> 29237
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<220>
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<210> 29238
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<400> 29238
agcagaacag aaaguuc 17

<210> 29239
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<210> 29240
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cuuucucugc uuccauu 17

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ugacacuaag ucaaguu 17

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gaauuuucuc ugcaagagua 20

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uuuuucacuc uagaccaagc 20

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guggcaauaa auuuaucugg 20

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aggauccaga ucuaacuugg 20

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<210> 29266
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cggguccacc aacccgc 17

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caacuuggcc ugcgcgc 17

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<400> 29301
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<400> 29302
gcuggggcua ugcgauu 17

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<400> 29303
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<220>
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gccuaucccc gggacuaaga 20

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<220>
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<210> 29311
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<210> 29312
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<220>
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<400> 29312
guugguggac ccgcucagua 20

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<400> 29313
acuuggccug cgcgcgggua 20

<210> 29314
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<220>
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<400> 29317
agacuugcgg ggcauuugac 20

<210> 29318
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<220>
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agacggggua agccuccacc 20

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gacgggguaa gccuccaccc 20

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<400> 29324
cgccccacuu ugccuauccc 20

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<220>
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gcuuaccccg ucuuaguccc 20

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uccccaacuc cguacugagc 20

<210> 29328
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gagcgggucc accaacccgc 20

<210> 29329
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cgguuuacga gugacuuggc 20

<210> 29330
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<220>
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ggauugcuca acaaccaugc 20

<210> 29331
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cacgaaaagc cccggugguc 20

<210> 29332
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guggcuggca ugcucacuuc 20

<210> 29333
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<220>
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cagguguuca aagacgcuuc 20

<210> 29334
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<210> 29335
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<220>
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<400> 29335
agucccgggg auaggcaaag 20

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<220>
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gaauggagcu cagagcgcag 20

<210> 29337
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<220>
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<400> 29337
cuaucccgg gacuaagacg 20

<210> 29338
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<220>
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ugagcggguc caccaacccg 20

<210> 29339
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<220>
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<210> 29340
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<220>
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<210> 29341
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<220>
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<210> 29342
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<220>
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<400> 29342
gaaaagcccc gguggucagg 20

<210> 29343
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<220>
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<400> 29343
gagcucacga aaagccccgg 20

<210> 29344
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<220>
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ggacgcgugc gggauugcgg 20

<210> 29345
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<220>
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<400> 29345
ugagcccucu ccugcccggg 20

<210> 29346
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<220>
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aaagacgcuu cuggggagug 20

<210> 29347
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<220>
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<210> 29348
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<220>
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acccgcucag uacggaguug 20

<210> 29349
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<220>
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<210> 29350
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<220>
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<210> 29351
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<220>
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<400> 29351
gccccggugg ucaggaggau 20

<210> 29352
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<220>
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<400> 29352
cccgucuuag ucccggggau 20

<210> 29353
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<220>
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<210> 29354
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<220>
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gaagcgguuu acgagugacu 20

<210> 29355
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<220>
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<210> 29356
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<220>
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gagaagaggc agcuccgccu 20

<210> 29357
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<220>
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gaugggaagg aagccucgcu 20

<210> 29358
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<220>
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<400> 29358
gucccgggga uaggcaaagu 20

<210> 29359
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<220>
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<400> 29359
ggacccgcuc aguacggagu 20

<210> 29360
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<220>
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ucgcugggga acgcccgggu 20

<210> 29361
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<220>
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aacuuggccu gcgcgcgggu 20

<210> 29362
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<220>
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<400> 29362
auagcugggg cuaugcgauu 20

<210> 29363
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<220>
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<400> 29363
gacccgcuca guacggaguu 20

<210> 29364
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<220>
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<400> 29364
ccauagggcu cugaaaa 17

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<400> 29493
guucaaagac gcuucug 17

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<400> 29494
cggggauagg caaagug 17

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gacgcuucug gggagug 17

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<400> 29496
cgggcgcggg acgcgug 17

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<210> 29498
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<220>
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<400> 29499
acucagagaa agacuug 17

<210> 29500
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<400> 29500
uucaaccugg gaaguug 17

<210> 29501
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<400> 29502
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<210> 29503
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ccauugauuc agcaacu 17

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<400> 29504
cugcuguagu ucaaccu 17

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<210> 29506
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<210> 29507
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<400> 29507
gcgcagaggu ccugccu 17

<210> 29508
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<220>
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<400> 29508
gaauguuuaa uauagcu 17

<210> 29509
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<220>
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<400> 29510
ugcucaacaa ccaugcu 17

<210> 29511
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<400> 29511
aguucaaccu gggaagu 17

<210> 29512
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<220>
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<400> 29512
gagggcucac cagaggu 17

<210> 29513
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<223> Synthetic oligonucleotide: FAS-842

<400> 29514
ccucuucucc cgcgggu 17

<210> 29515
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<220>
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<210> 29516
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<400> 29516
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<210> 29517
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<220>
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<210> 29518
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<220>
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<400> 29518
acagcagaag ccuuuagaaa 20

<210> 29519
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<220>
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<400> 29519
aggccaaguu gcugaaucaa 20

<210> 29520
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<220>
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<400> 29520
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<210> 29521
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<400> 29521
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<210> 29522
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<400> 29523
ucuugagaaa uaaaaacuaa 20

<210> 29524
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<220>
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<210> 29525
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<210> 29526
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<400> 29526
gaggguccag augcccagca 20

<210> 29527
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<400> 29527
cucaggggcg ggcacuggca 20

<210> 29528
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<220>
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<400> 29528
gugacuuggc uggagccuca 20

<210> 29529
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<220>
<223> Synthetic oligonucleotide: FAS-713

<400> 29529
ggcagccagg gcuggccuca 20

<210> 29530
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<210> 29531
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<220>
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<400> 29532
gccuccaccc gggcaggaga 20

<210> 29533
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<210> 29534
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<400> 29534
gggagaaguc agggugagga 20

<210> 29535
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<400> 29535
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<210> 29536
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<210> 29537
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<210> 29538
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<220>
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<210> 29539
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<220>
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<210> 29540
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<220>
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<400> 29540
aguacagaug uugcgccaua 20

<210> 29541
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<220>
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<400> 29541
aacaucugua cuuuuucaua 20

<210> 29542
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<400> 29542
cucuugagaa auaaaaacua 20

<210> 29543
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<400> 29543
ccucccuuuu cagagcccua 20

<210> 29544
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<400> 29544
cuucccaucc uccugaccac 20

<210> 29545
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<400> 29545
ggagccucag gggcgggcac 20

<210> 29546
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<220>
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caauggagcc cucccccaacc 20

<210> 29547
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<220>
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<400> 29547
uucccauccu ccugaccacc 20

<210> 29548
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<220>
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<400> 29548
cagcggcgca cgcgggcacc 20

<210> 29549
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<220>
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aauggagccc uccccaaccc 20

<210> 29550
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<400> 29551
gccccacuuu gccuaucccc 20

<210> 29552
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<400> 29552
acacacccug aggccagccc 20

<210> 29553
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cagccacugc aggaacgccc 20

<210> 29554
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<220>
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<210> 29555
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<220>
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<400> 29555
uggugagccc ucuccugccc 20

<210> 29556
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<220>
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<400> 29556
gaggccagcc cuggcugccc 20

<210> 29557
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<220>
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<210> 29558
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<220>
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<400> 29558
caagaccucc ccaacuuccc 20

<210> 29559
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<220>
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gcagcuccgc cugggcagcc 20

<210> 29560
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<220>
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aagccucgcu ggggaacgcc 20

<210> 29561
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<220>
<223> Synthetic oligonucleotide: FAS-707

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ggagaagagg cagcuccgcc 20

<210> 29562
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<220>
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<400> 29562
cuggugagcc cucuccugcc 20

<210> 29563
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<220>
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<400> 29563
cagagcgcag agguccugcc 20

<210> 29564
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<220>
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acaaaugggc auuccugucc 20

<210> 29565
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<220>
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<400> 29565
caggugagga ccucgagagc 20

<210> 29566
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<220>
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<400> 29566
uugugaaugu uuaauauagc 20

<210> 29567
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<220>
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<400> 29567
gcggcggcag cggcgcacgc 20

<210> 29568
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<220>
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<400> 29568
ggagcugccu cuucucccgc 20

<210> 29569
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<220>
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<400> 29569
cccccucccu acccgcgcgc 20

<210> 29570
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<220>
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cagcaacuug gccugcgcgc 20

<210> 29571
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<220>
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<400> 29571
aggcaaagug gggcgggcgc 20

<210> 29572
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<220>
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<400> 29572
ggaugggaag gaagccucgc 20

<210> 29573
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<220>
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<400> 29573
caaggcuccu guacccaggc 20

<210> 29574
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<400> 29574
cuuuagaaag ggcaggaggc 20

<210> 29575
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<220>
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<400> 29575
cagaagccuu uagaaagggc 20

<210> 29576
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<400> 29576
uccgccuggg cagccagggc 20

<210> 29577
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<220>
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<400> 29577
ggguaagccu ccacccgggc 20

<210> 29578
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<220>
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<400> 29578
uuggcuggag ccucaggggc 20

<210> 29579
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<220>
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<400> 29579
ggggauaggc aaagugggggc 20

<210> 29580
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<220>
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<400> 29580
cggggcguuc cugcaguggc 20

<210> 29581
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<220>
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<400> 29581
gugagcaugc cagccacugc 20

<210> 29582
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<220>
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<400> 29582
ggcgggcgcg ggacgcgugc 20

<210> 29583
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<220>
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<400> 29583
caggagccuu ggcuaauugc 20

<210> 29584
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<220>
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<400> 29584
ucacucagag aaagacuugc 20

<210> 29585
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<220>
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caacaaccau gcugggcauc 20

<210> 29586
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<220>
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<400> 29586
caucuggacc cuccuaccuc 20

<210> 29587
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<220>
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<400> 29587
agugacuugg cuggagccuc 20

<210> 29588
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<220>
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<400> 29588
gggcagccag ggcuggccuc 20

<210> 29589
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<220>
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<400> 29589
gguagggagg gggagaaguc 20

<210> 29590
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<220>
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<400> 29590
gucaggguga ggaaggaguc 20

<210> 29591
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<220>
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<400> 29591
cuuaguuuuu auuucucaag 20

<210> 29592
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<220>
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<400> 29592
ccaccaaccc gcgggagaag 20

<210> 29593
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<220>
<223> Synthetic oligonucleotide: FAS-635

<400> 29593
cuucugggga gugagggaag 20

<210> 29594
<211> 20
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<220>
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<400> 29594
cuugagaaau aaaaacuaag 20

<210> 29595
<211> 20
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<220>
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<400> 29595
ggcaggagag ggcucaccag 20

<210> 29596
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<220>
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<400> 29596
gugcgggauu gcggcggcag 20

<210> 29597
<211> 20
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<220>
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<400> 29597
gucccggggc guuccugcag 20

<210> 29598
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<220>
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<400> 29598
ugacuuggcu ggagccucag 20

<210> 29599
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<220>
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<400> 29599
agccuccacc cgggcaggag 20

<210> 29600
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<220>
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gccugcgcgc ggguagggag 20

<210> 29601
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<220>
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<400> 29601
uguuguggcu gcaacaugag 20

<210> 29602
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<220>
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<400> 29602
uuccccaacu ccguacugag 20

<210> 29603
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<220>
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<400> 29603
ugcggcggca gcggcgcacg 20

<210> 29604
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<220>
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<400> 29604
ucccauccuc cugaccaccg 20

<210> 29605
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<220>
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<400> 29605
cggagcugcc ucuucucccg 20

<210> 29606
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<220>
<223> Synthetic oligonucleotide: FAS-751

<400> 29606
aaaugggcau uccugucccg 20

<210> 29607
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<220>
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<400> 29607
uaggcaaagu ggggcgggcg 20

<210> 29608
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<220>
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<400> 29608
cacucagaga aagacuugcg 20

<210> 29609
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<220>
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<400> 29609
gggcaggagg ccggcucucg 20

<210> 29610
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<220>
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<400> 29610
gccagcccug gcugcccagg 20

<210> 29611
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<220>
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<400> 29611
aagccuuuag aaagggcagg 20

<210> 29612
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<220>
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<400> 29612
ccugcgcgcg gguagggagg 20

<210> 29613
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<220>
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<400> 29613
gagggcucac cagagguagg 20

<210> 29614
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<220>
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<400> 29614
gggaagcucu uucacuucgg 20

<210> 29615
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<220>
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<400> 29615
ccauagggcu cugaaaaggg 20

<210> 29616
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<220>
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<400> 29616
uggccugcgc gcggguaggg 20

<210> 29617
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<220>
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cugacaagcc aagccaa 17

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ucgcuggagg gggaccc 17

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guuggagacu ggcuccc 17

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uggucuccga ggagcgc 17

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caguugacau uuucuuc 17

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gcggacagga auugaag 17

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gccugaagga ugaacag 17

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cugccccgcc ugcccag 17

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agucagcacc gaagcag 17

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ggaccccggu uggagag 17

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acccacccgc gccggag 17

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cuuuaggguc gcuggag 17

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<400> 29733
agaaaauguc aacugag 17

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cucucucccc gcccccg 17

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gagugcgcgc cgccccg 17

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uuggagacug gcucccg 17

<210> 29739
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<220>
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<210> 29740
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<400> 29740
gccccgccug cccagcg 17

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cucucccccgc ccccgcg 17

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gaagucuggg aagcuuu 17

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agugacagau gcaaaacaca 20

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ggggucagca cuucgcauca 20

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accuuuggcu uggcuuguca 20

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uuuagcauga auuuuacaga 20

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gaagcuuuag ggucgcugga 20

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uucugagcac ccgggccuga 20

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agaugcaaaa cacaggguga 20

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guaaccuaac cuagauuuga 20

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ucuuucucga aaaaguuaua 20

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guuccgcucc ucucuccaac 20

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cagugacaga ugcaaaacac 20

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ccuaucaaca ccuacaagac 20

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auuuggaugc aguuccagac 20

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uuuuuuaaag aaaauuggcc 20

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uggcuuguca gggcuugucc 20

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<220>
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<400> 29855
augcgaagug cugaccccgc 20

<210> 29856
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<220>
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ggcucucucc ccgcccccgc 20

<210> 29857
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<220>
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gugagugcgc gccgccccgc 20

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<220>
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caguggucuc cgaggagcgc 20

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gcgcacucac ccacccgcgc 20

<210> 29860
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<220>
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ccaaaggucc gcuccggcgc 20

<210> 29861
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cugggaagcu uuagggucgc 20

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gcgcgccgcc ccgcgggggc 20

<210> 29864
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<400> 29865
auaucuguuc ugaaggcugc 20

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<220>
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<210> 29870
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<400> 29870
gccaagccaa agguccgcuc 20

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<210> 29877
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<220>
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ucucaguuga cauuuucuuc 20

<210> 29878
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aacagauauu gcucauuuuc 20

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<210> 29880
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<220>
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<210> 29881
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<220>
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<210> 29882
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auaagucagc accgaagcag 20

<210> 29883
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<210> 29884
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<220>
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<210> 29885
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<220>
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gggggacccc gguuggagag 20

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<220>
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<400> 29886
accccgguug gagagaggag 20

<210> 29887
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<220>
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<210> 29888
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<220>
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<400> 29888
aagcuuuagg gucgcuggag 20

<210> 29889
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<220>
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agaagaaaau gucaacugag 20

<210> 29890
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<220>
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<400> 29890
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<210> 29891
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<220>
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uccgcuccuc ucuccaaccg 20

<210> 29892
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<220>
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aggcucucuc cccgcccccg 20

<210> 29893
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<220>
<223> Synthetic oligonucleotide: FAS-1948

<400> 29893
ggugagugcg cgccgccccg 20

<210> 29894
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<220>
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<400> 29894
gcguuggaga cuggcucccg 20

<210> 29895
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<220>
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<400> 29895
guggagcgca guggucuccg 20

<210> 29896
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<220>
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<400> 29896
gcugccccgc cugcccagcg 20

<210> 29897
<211> 20
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<220>
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<400> 29897
gcucucuccc cgccccccgcg 20

<210> 29898
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<220>
<223> Synthetic oligonucleotide: FAS-1950

<400> 29898
ugagugcgcg ccgccccgcg 20

<210> 29899
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<220>
<223> Synthetic oligonucleotide: FAS-1916

<400> 29899
cugaccccgc ugggcaggcg 20

<210> 29900
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1944

<400> 29900
gccaaagguc cgcuccggcg 20

<210> 29901
<211> 20
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<220>
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<400> 29901
cgcgccgccc cgcgggggcg 20

<210> 29902
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1922

<400> 29902
gcuccacguu gaggugggcg 20

<210> 29903
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-1914

<400> 29903
ugcugacccc gcugggcagg 20

<210> 29904
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1785

<400> 29904
ggugauggaa agcccucagg 20

<210> 29905
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<220>
<223> Synthetic oligonucleotide: FAS-1936

<400> 29905
agcuuuaggg ucgcuggagg 20

<210> 29906
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<220>
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<400> 29906
cacugcgcuc cacguugagg 20

<210> 29907
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<220>
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<400> 29907
cguuggagac uggcucccgg 20

<210> 29908
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1959

<400> 29908
cgaagcagug guuaagccgg 20

<210> 29909
<211> 20
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<220>
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<400> 29909
gagugcgcgc cgccccgcgg 20

<210> 29910
<211> 20
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<220>
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<400> 29910
aagguccgcu ccggcgcggg 20

<210> 29911
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<220>
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<400> 29911
cucucccccgc ccccgcgggg 20

<210> 29912
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<220>
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<400> 29912
ugcgcgccgc cccgcggggg 20

<210> 29913
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<220>
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<400> 29913
uucucgaaaa aguuauaugg 20

<210> 29914
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<220>
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<210> 29915
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<220>
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<400> 29915
ccgggugcuc agaacgcugg 20

<210> 29916
<211> 20
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<220>
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<400> 29916
ggaagcuuua gggucgcugg 20

<210> 29917
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1805

<400> 29917
gagugaggug cagagcuugg 20

<210> 29918
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<220>
<223> Synthetic oligonucleotide: FAS-1965

<400> 29918
uuucucgaaa aaguuauaug 20

<210> 29919
<211> 20
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<220>
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<400> 29919
guucugagca cccgggccug 20

<210> 29920
<211> 20
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<220>
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<400> 29920
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<210> 29921
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<220>
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<400> 29921
gggagagagg uugcagagug 20

<210> 29922
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<220>
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<400> 29922
uccacguuga ggugggcgug 20

<210> 29923
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<220>
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<400> 29923
guugaggugg gcgugggggug 20

<210> 29924
<211> 20
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<220>
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<400> 29924
gaccacugcg cuccacguug 20

<210> 29925
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<220>
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<400> 29925
gguaaccuaa ccuagauuug 20

<210> 29926
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<220>
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<400> 29926
gauuuuuuuu uaaagaaaau 20

<210> 29927
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<220>
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<400> 29927
auuaaugggu ugaaucuaau 20

<210> 29928
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<220>
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<400> 29928
guuauuaaug uguuauuaau 20

<210> 29929
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<220>
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<400> 29929
ccagucuugu agguguugau 20

<210> 29930
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<220>
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<400> 29930
cuuucucgaa aaaguuauau 20

<210> 29931
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<220>
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<400> 29931
ggggcagcuc cggcgcuccu 20

<210> 29932
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<220>
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<400> 29932
gcagagugag gugcagagcu 20

<210> 29933
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<220>
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<400> 29933
ugcgaagugc ugaccccgcu 20

<210> 29934
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<220>
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<400> 29934
agugguuaag ccggagggcu 20

<210> 29935
<211> 20
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<220>
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<400> 29935
gccggagcgg accuuuggcu 20

<210> 29936
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<220>
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<400> 29936
cuguuugggc ccucaaaucu 20

<210> 29937
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<220>
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<400> 29937
aggaauugaa gcggaagucu 20

<210> 29938
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<220>
<223> Synthetic oligonucleotide: FAS-1909

<400> 29938
gcuggaggac uugcuuuucu 20

<210> 29939
<211> 20
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<220>
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<400> 29939
aagccugaag gaugaacagu 20

<210> 29940
<211> 20
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<220>
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<400> 29940
uucuggcagu ucucagacgu 20

<210> 29941
<211> 20
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<220>
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<400> 29941
cgggcugcug cgggaggcgu 20

<210> 29942
<211> 20
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<220>
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<400> 29942
cuccacguug aggugggcgu 20

<210> 29943
<211> 20
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<220>
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<400> 29943
acugcgcucc acguugaggu 20

<210> 29944
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<220>
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<400> 29944
cgcuggaggg ggaccccggu 20

<210> 29945
<211> 20
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<220>
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<400> 29945
agguccgcuc cggcgcgggu 20

<210> 29946
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<220>
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<400> 29946
gcacuuacca ccagucuugu 20

<210> 29947
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<220>
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<400> 29947
aucauuacug aaccugaauu 20

<210> 29948
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<220>
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<400> 29948
uuaauggguu gaaucuaauu 20

<210> 29949
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<220>
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<400> 29949
cccgcgccgg agcggaccuu 20

<210> 29950
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<220>
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<400> 29950
uaaagguuuc aguauuccuu 20

<210> 29951
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<220>
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<400> 29951
cuccggcuua accacugcuu 20

<210> 29952
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<220>
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<400> 29952
guucaaaguc acuauugcuu 20

<210> 29953
<211> 20
<212> RNA
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<220>
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<400> 29953
uggaacggua gauagcucuu 20

<210> 29954
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1910

<400> 29954
cuggaggacu ugcuuuucuu 20

<210> 29955
<211> 20
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<220>
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<400> 29955
ugggcccuca aaucuagguu 20

<210> 29956
<211> 20
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<220>
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<400> 29956
aauuuuacag aagguauguu 20

<210> 29957
<211> 20
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<220>
<223> Synthetic oligonucleotide: FAS-1860

<400> 29957
auuuucuucu ggagccuguu 20

<210> 29958
<211> 20
<212> RNA
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<220>
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<400> 29958
acuggcuccc gggggcuguu 20

<210> 29959
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-1930

<400> 29959
gcggaagucu gggaagcuuu 20

<210> 29960
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<212> RNA
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<220>
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<400> 29960
uuuucuucug gagccuguuu 20

<210> 29961
<211> 18
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<220>
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<400> 29961
cuaucccgg gacuaaga 18

<210> 29962
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<220>
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<400> 29962
ccuaucccg ggacuaaga 19

<210> 29963
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-689

<400> 29963
gccuaucccc gggacuaaga 20

<210> 29964
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<220>
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<400> 29964
ugccuauccc cgggacuaag a 21

<210> 29965
<211> 22
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: FAS-3217

<400> 29965
uugccuaucc ccgggacuaa ga 22

<210> 29966
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<212> RNA
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<220>
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<400> 29966
uuugccuauc cccgggacua aga 23

<210> 29967
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-3219

<400> 29967
cuuugccuau ccccgggacu aaga 24

<210> 29968
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: FAS-3220

<400> 29968
uccccaacuc cguacuga 18

<210> 29969
<211> 19
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<213> Artificial Sequence

<220>
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<400> 29969
uuccccaacu ccguacuga 19

<210> 29970
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 29970
cuuccccaac uccguacuga 20

<210> 29971
<211> 21
<212> RNA
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<220>
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<400> 29971
gcuuccccaa cuccguacug a 21

<210> 29972
<211> 22
<212> RNA
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<220>
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<400> 29972
agcuucccca acuccguacu ga 22

<210> 29973
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<212> RNA
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<220>
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<400> 29973
gagcuucccc aacuccguac uga 23

<210> 29974
<211> 24
<212> RNA
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<220>
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<400> 29974
agagcuuccc caacuccgua cuga 24

<210> 29975
<211> 18
<212> RNA
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<220>
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<400> 29975
agccucgcug gggaacgc 18

<210> 29976
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<212> RNA
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<220>
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<400> 29976
aagccucgcu ggggaacgc 19

<210> 29977
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-1203

<400> 29977
gaagccucgc uggggaacgc 20

<210> 29978
<211> 21
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<220>
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<400> 29978
auucagcaac uuggccugcg c 21

<210> 29979
<211> 22
<212> RNA
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<220>
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<400> 29979
gauucagcaa cuuggccugc gc 22

<210> 29980
<211> 23
<212> RNA
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<220>
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<400> 29980
ugauucagca acuuggccug cgc 23

<210> 29981
<211> 24
<212> RNA
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<220>
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<400> 29981
uugauucagc aacuuggccu gcgc 24

<210> 29982
<211> 21
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<213> Artificial Sequence

<220>
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<400> 29982
cucagagcgc agagguccug c 21

<210> 29983
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-3233

<400> 29983
gcucagagcg cagagguccu gc 22

<210> 29984
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-3234

<400> 29984
agcucagagc gcagaggucc ugc 23

<210> 29985
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: FAS-3235

<400> 29985
gagcucagag cgcagagguc cugc 24

<210> 29986
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-3236

<400> 29986
ggagccuugg cuaauugc 18

<210> 29987
<211> 19
<212> RNA
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<220>
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<400> 29987
aggagccuug gcuaauugc 19

<210> 29988
<211> 20
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-771

<400> 29988
caggagccuu ggcuaauugc 20

<210> 29989
<211> 21
<212> RNA
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<220>
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<400> 29989
acaggagccu uggcuaauug c 21

<210> 29990
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: FAS-3239

<400> 29990
uacaggagcc uuggcuaauu gc 22

<210> 29991
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
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<400> 29991
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gguacaggag ccuuggcuaa uugc 24

<210> 29993
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<400> 29993
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<400> 29998
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<210> 30003
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<210> 30004
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<400> 30004
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<210> 30005
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<210> 30007
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<210> 30009
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<210> 30012
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<223> Synthetic oligonucleotide: FAS-3256

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ugguggaccc gcucagua 18

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<400> 30013
uugguggacc cgcucagua 19

<210> 30014
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<220>
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<400> 30014
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<210> 30015
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<210> 30017
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<400> 30017
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<210> 30018
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<210> 30019
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<400> 30019
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<210> 30020
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<210> 30021
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<400> 30021
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<210> 30022
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<210> 30023
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<400> 30023
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<210> 30024
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<220>
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<400> 30024
ccacugcagg aacgccccgg gac 23

<210> 30025
<211> 24
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<220>
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<400> 30025
gccacugcag gaacgccccg ggac 24

<210> 30026
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<220>
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<210> 30027
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<210> 30030
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<210> 30033
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<400> 30035
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<210> 30038
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<210> 30039
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<210> 30040
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<210> 30042
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<210> 30043
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<210> 30044
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<400> 30044
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<210> 30045
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<210> 30046
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<210> 30049
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<220>
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<210> 30050
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<210> 30051
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<210> 30052
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<210> 30053
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<210> 30054
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cacagguguu caaagacgcu ucug 24

<210> 30055
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ggggcgggcg cgggacgcgu g 21

<210> 30056
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<400> 30056
uggggcgggc gcgggacgcg ug 22

<210> 30057
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gugggggcggg cgcgggacgc gug 23

<210> 30058
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<400> 30058
agugggggcgg gcgcgggacg cgug 24

<210> 30059
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<220>
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<400> 30059
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<210> 30060
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<400> 30060
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<210> 30061
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<210> 30062
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<210> 30063
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<210> 30064
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<210> 30065
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<210> 30066
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<210> 30071
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<210> 30072
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<400> 30073
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<210> 30074
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<400> 30074
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<210> 30075
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<210> 30076
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<210> 30077
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uggggaguga gggaagcggu uu 22

<210> 30082
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ucuggggagu gagggaagcg guuu 24

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gggagaaguc agggugagga 20

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<210> 30090
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<210> 30091
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<220>
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<210> 30092
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<220>
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<210> 30093
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<220>
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aaggaagccu cgcuggggaa cgc 23

<210> 30094
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<220>
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gaaggaagcc ucgcugggga acgc 24

<210> 30095
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<220>
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<400> 30095
cagcaacuug gccugcgc 18

<210> 30096
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<220>
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guuggggagg ucuugaag 18

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aguuggggag gucuugaag 19

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<210> 30107
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gaaguugggg aggucuugaa g 21

<210> 30108
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<210> 30109
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<210> 30110
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<210> 30111
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<220>
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agggcucacc agagguag 18

<210> 30112
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<220>
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gagggcucac cagagguag 19

<210> 30113
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<210> 30119
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<210> 30120
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<400> 30124
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<210> 30129
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<210> 30138
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<210> 30140
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<220>
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<220>
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<210> 30155
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<210> 30156
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<210> 30157
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<400> 30157
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<210> 30163
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<210> 30164
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<210> 30165
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<210> 30166
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<210> 30169
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<210> 30175
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<220>
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<210> 30184
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<210> 30185
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<210> 30186
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<210> 30187
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<220>
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<210> 30191
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<210> 30192
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<210> 30193
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<210> 30194
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<210> 30195
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<210> 30197
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<210> 30198
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<400> 30199
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<210> 30202
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<220>
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<400> 30203
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<210> 30204
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<400> 30204
gaaaaaguac agauguugcg cca 23

<210> 30205
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<400> 30205
ugaaaaagua cagauguugc gcca 24

<210> 30206
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<400> 30206
aauugcugga gucacuca 18

<210> 30207
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<400> 30207
uaauugcugg agucacuca 19

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<220>
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<400> 30208
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<210> 30209
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<210> 30210
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<210> 30211
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<210> 30212
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<210> 30213
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<400> 30213
gggaggucuu gaaggaga 18

<210> 30214
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<220>
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<400> 30214
ggggaggucu ugaaggaga 19

<210> 30215
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<210> 30216
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<210> 30217
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<400> 30217
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<210> 30218
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<400> 30218
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<210> 30219
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<220>
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<400> 30219
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<210> 30220
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<220>
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<400> 30220
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<210> 30221
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<220>
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<400> 30221
agccuccacc cgggcagga 19

<210> 30222
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<220>
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<400> 30222
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<210> 30223
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<400> 30223
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<210> 30224
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<400> 30224
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<210> 30225
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<400> 30225
gguaagccuc cacccgggca gga 23

<210> 30226
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<400> 30226
ggguaagccu ccacccgggc agga 24

<210> 30227
<211> 18
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<220>
<223> Synthetic oligonucleotide: FAS-3422

<400> 30227
ccccgguggu caggagga 18

<210> 30228
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<220>
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<400> 30228
gccccggugg ucaggagga 19

<210> 30229
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<220>
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<400> 30229
agccccggug gucaggagga 20

<210> 30230
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<220>
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<210> 30231
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<220>
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<400> 30231
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<210> 30232
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<220>
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<400> 30232
aaaagccccg guggucagga gga 23

<210> 30233
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<220>
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<400> 30233
gaaaagcccc gguggucagg agga 24

<210> 30234
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<220>
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<400> 30234
ccugcgcgcg gguaggga 18

<210> 30235
<211> 19
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<220>
<223> Synthetic oligonucleotide: FAS-3429

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<210> 30247
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<210> 30261
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<210> 30268
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<210> 30270
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<220>
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<210> 30275
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<400> 30276
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<210> 30278
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<210> 30296
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<210> 30302
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<210> 30303
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<400> 30303
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<210> 30304
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<210> 30310
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<210> 30316
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<210> 30317
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ccgggcagga gagggcucac 20

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<210> 30323
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<210> 30325
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<210> 30330
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<210> 30331
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<210> 30332
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<400> 30333
cuucugcugu aguucaacc 19

<210> 30334
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gcuucugcug uaguucaacc 20

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<210> 30336
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<210> 30337
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<210> 30338
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<210> 30339
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<400> 30339
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<210> 30341
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<210> 30342
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<210> 30343
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<210> 30344
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<210> 30345
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<210> 30346
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<210> 30350
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<210> 30352
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<210> 30353
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<210> 30354
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<210> 30355
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<220>
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<210> 30356
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<210> 30357
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<210> 30372
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<210> 30373
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<210> 30374
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<210> 30381
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<400> 30381
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<210> 30382
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<400> 30383
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<220>
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<210> 30387
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<220>
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<400> 30387
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<210> 30388
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<210> 30389
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<400> 30389
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<210> 30390
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<210> 30391
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<400> 30391
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<210> 30392
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<220>
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<400> 30392
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<210> 30393
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<400> 30393
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<210> 30394
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<220>
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<400> 30394
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<210> 30395
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<400> 30397
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<400> 30398
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<210> 30399
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<210> 30400
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<210> 30401
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<210> 30402
<211> 18
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<210> 30404
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<400> 30405
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<210> 30406
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<210> 30407
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<400> 30407
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<210> 30408
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<210> 30409
<211> 18
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<210> 30410
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<400> 30410
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<210> 30411
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<400> 30411
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<210> 30412
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<400> 30412
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<210> 30413
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<400> 30413
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<210> 30414
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<220>
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<400> 30414
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<210> 30415
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<220>
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<400> 30415
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<210> 30416
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<400> 30416
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<400> 30417
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<400> 30418
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<210> 30420
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<210> 30421
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<400> 30422
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<210> 30423
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<400> 30425
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<210> 30426
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<400> 30426
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<400> 30427
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<210> 30428
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<400> 30428
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<210> 30429
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<400> 30429
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<210> 30430
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<400> 30430
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<400> 30433
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<400> 30436
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<210> 30441
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<210> 30442
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<220>
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<210> 30443
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<210> 30444
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<400> 30444
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<210> 30445
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<400> 30445
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<210> 30446
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<220>
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<210> 30447
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<210> 30448
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<210> 30449
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<220>
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<400> 30449
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<210> 30450
<211> 24
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<220>
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<400> 30450
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<210> 30451
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<220>
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<400> 30451
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<210> 30452
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<220>
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<400> 30452
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<210> 30453
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<220>
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<400> 30453
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<210> 30454
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<210> 30455
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<220>
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<400> 30455
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<210> 30456
<211> 23
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<220>
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<400> 30456
caaccuggga aguuggggag guc 23

<210> 30457
<211> 24
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<220>
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<400> 30457
ucaaccuggg aaguugggga gguc 24

<210> 30458
<211> 18
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<220>
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<400> 30458
cgaaaagccc cggugguc 18

<210> 30459
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<220>
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<400> 30459
acgaaaagcc ccggugguc 19

<210> 30460
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<220>
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<400> 30460
cacgaaaagc cccggugguc 20

<210> 30461
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<220>
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<400> 30461
ucacgaaaag ccccgguggu c 21

<210> 30462
<211> 22
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<220>
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<400> 30462
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<210> 30463
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<220>
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<400> 30463
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<210> 30464
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<220>
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<400> 30464
agcucacgaa aagccccggu gguc 24

<210> 30465
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<220>
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<400> 30465
caaaugggca uuccuguc 18

<210> 30466
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<220>
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<400> 30466
acaaaugggc auuccuguc 19

<210> 30467
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<220>
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<400> 30467
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<210> 30468
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<220>
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<400> 30468
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<210> 30469
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<220>
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<400> 30469
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<210> 30470
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<220>
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<210> 30471
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<220>
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<400> 30471
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<210> 30472
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<220>
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<400> 30472
uaguuuuuau uucucaag 18

<210> 30473
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<220>
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<400> 30473
uuaguuuuua uuucucaag 19

<210> 30474
<211> 20
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<220>
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<400> 30474
cuuaguuuuu auuucucaag 20

<210> 30475
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<213> Artificial Sequence

<220>
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<400> 30475
ccuuaguuuu uauuucucaa g 21

<210> 30476
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<220>
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<400> 30476
cccuuaguuu uuauuucuca ag 22

<210> 30477
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<220>
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<400> 30477
ccccuuaguu uuuauuucuc aag 23

<210> 30478
<211> 24
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<220>
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gccccuuagu uuuuauuucu caag 24

<210> 30479
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<210> 30513
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<210> 30547
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<400> 30570
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<400> 30571
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<210> 30572
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<210> 30581
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<210> 30582
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<210> 30583
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<210> 30589
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<210> 30591
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<210> 30595
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<210> 30596
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<210> 30597
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<210> 30598
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ggguccacca acccgcgg 18

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<400> 30691
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<210> 30695
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gcuguaguuc aaccugggaa guug 24

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<210> 30703
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<220>
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<220>
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<210> 30715
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<210> 30716
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<210> 30717
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<210> 30721
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<210> 30722
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<210> 30723
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<210> 30741
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<210> 30751
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<210> 30763
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<210> 30793
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<210> 30804
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<210> 30813
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<210> 30814
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<210> 30815
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<210> 30819
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<400> 30819
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<400> 30820
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<210> 30821
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<400> 30821
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<210> 30822
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<400> 30822
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<210> 30823
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<400> 30823
acuuggccug cgcgcgggu 19

<210> 30824
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<400> 30824
aacuuggccu gcgcgcgggu 20

<210> 30825
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<400> 30825
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<210> 30826
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<400> 30826
gcaacuuggc cugcgcgcgg gu 22

<210> 30827
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<400> 30827
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<210> 30828
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<400> 30828
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<210> 30832
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<210> 30834
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<400> 30834
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<210> 30835
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<400> 30835
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<210> 30836
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ucacucagag aaagacuu 18

<210> 30837
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<210> 30838
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agucacucag agaaagacuu 20

<210> 30839
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gagucacuca gagaaagacu u 21

<210> 30840
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<210> 30841
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<210> 30842
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<210> 30843
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aguucaaccu gggaaguu 18

<210> 30844
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<210> 30845
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<210> 30947
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<210> 30954
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<210> 30961
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<210> 30962
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<210> 30963
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<210> 30964
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<210> 30965
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<210> 30978
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<210> 30979
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<210> 30988
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<210> 30991
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<210> 30995
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<210> 30996
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<210> 30997
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<210> 30999
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<220>
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<210> 31001
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<220>
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<210> 31002
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<400> 31002
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<210> 31003
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<210> 31004
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<400> 31004
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<400> 31005
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<210> 31006
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<220>
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<400> 31006
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<220>
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<400> 31007
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<210> 31008
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<220>
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<400> 31008
ggcagcggcg cacgcgggca cc 22

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<400> 31009
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<210> 31011
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<220>
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<400> 31011
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<210> 31012
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<220>
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<220>
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<400> 31013
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<210> 31014
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<210> 31015
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<210> 31016
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<210> 31017
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<400> 31017
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<210> 31018
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<220>
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<210> 31022
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<210> 31023
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<210> 31024
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<210> 31025
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<210> 31045
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<210> 31050
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<210> 31051
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<210> 31052
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<210> 31058
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<210> 31059
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<210> 31060
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<210> 31063
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<220>
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<210> 31064
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<210> 31065
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<210> 31066
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<210> 31067
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<220>
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<400> 31067
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<210> 31068
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<400> 31068
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<210> 31069
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<220>
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<400> 31069
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<210> 31070
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<400> 31070
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<210> 31071
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<400> 31071
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<210> 31072
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<400> 31072
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<210> 31073
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<220>
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<400> 31073
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<210> 31074
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<220>
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<400> 31074
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<210> 31075
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<400> 31075
gugacuuggc uggagccuc 19

<210> 31076
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<220>
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<400> 31076
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<210> 31077
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<210> 31078
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<210> 31079
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<210> 31080
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<400> 31080
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<210> 31081
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<220>
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<220>
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uguuagcuuu guuuuccuc 19

<210> 31083
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<220>
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<400> 31083
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<210> 31084
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<220>
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<400> 31084
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<210> 31085
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<220>
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<400> 31085
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<210> 31086
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<220>
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<400> 31086
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<210> 31087
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<220>
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uaaguuguua gcuuuguuuu ccuc 24

<210> 31088
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<220>
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<220>
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gaaagggcag gaggccggcu c 21

<210> 31092
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<220>
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<210> 31094
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gcuuaccccg ucuuaguc 18

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<220>
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ggcuuacccc gucuuaguc 19

<210> 31097
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<210> 31099
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<220>
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<400> 31099
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<210> 31100
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<210> 31101
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<400> 31101
guggaggcuu accccgucuu aguc 24

<210> 31102
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<220>
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<400> 31102
augguuaacu guccauuc 18

<210> 31103
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<220>
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<400> 31103
uaugguuaac uguccauuc 19

<210> 31104
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<220>
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<400> 31104
auaugguuaa cuguccauuc 20

<210> 31105
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<210> 31106
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<220>
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<400> 31106
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<210> 31107
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<220>
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<400> 31107
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<210> 31108
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<220>
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<400> 31108
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<210> 31109
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gguguucaaa gacgcuuc 18

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<220>
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<400> 31110
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<210> 31111
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<220>
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<400> 31111
cagguguuca aagacgcuuc 20

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<220>
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<400> 31112
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<210> 31113
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<220>
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<400> 31113
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<210> 31114
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<220>
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<400> 31114
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<210> 31115
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<220>
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<400> 31115
cacacaggug uucaaagacg cuuc 24

<210> 31116
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<220>
<223> Synthetic oligonucleotide: FAS-4154

<400> 31116
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<210> 31117
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<220>
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<400> 31117
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<210> 31118
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<220>
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<400> 31118
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<210> 31119
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<220>
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<400> 31119
uccugaccac cggggcuuuu c 21

<210> 31120
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<220>
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<400> 31120
cuccugacca ccggggcuuu uc 22

<210> 31121
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<220>
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<400> 31121
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<210> 31122
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<220>
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<400> 31122
uccuccugac caccggggcu uuuc 24

<210> 31123
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<220>
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<400> 31123
ucccggggau aggcaaag 18

<210> 31124
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<220>
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<400> 31124
gucccgggga uaggcaaag 19

<210> 31125
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<220>
<223> Synthetic oligonucleotide: FAS-671

<400> 31125
agucccgggg auaggcaaag 20

<210> 31126
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<400> 31126
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<210> 31127
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<220>
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<400> 31127
uuagucccgg ggauaggcaa ag 22

<210> 31128
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<220>
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<400> 31128
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<210> 31129
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<400> 31129
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<210> 31130
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<220>
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<400> 31130
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<210> 31131
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<220>
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<400> 31131
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<210> 31132
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<220>
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cuucccaggu ugaacuacag 20

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<400> 31133
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<210> 31136
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<210> 31137
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<220>
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<400> 31137
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<210> 31138
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<220>
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<400> 31138
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<220>
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<400> 31139
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<400> 31140
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<210> 31141
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<220>
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<400> 31141
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<210> 31142
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<400> 31142
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<210> 31143
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<400> 31143
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<210> 31144
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<220>
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<400> 31144
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<220>
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<220>
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<400> 31146
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<210> 31147
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<220>
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<400> 31147
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<210> 31148
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<220>
<223> Synthetic oligonucleotide: FAS-4181

<400> 31148
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<210> 31149
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<220>
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<400> 31149
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<210> 31150
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<220>
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<400> 31150
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<210> 31151
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<220>
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<400> 31151
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<210> 31152
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<220>
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<400> 31152
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<210> 31153
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<220>
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<400> 31153
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<220>
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<400> 31154
aauugugaau guuuaauaua g 21

<210> 31155
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<220>
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<400> 31155
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<210> 31156
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<220>
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<400> 31156
guaauuguga auguuuaaua uag 23

<210> 31157
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<220>
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<400> 31157
aguaauugug aauguuuaau auag 24

<210> 31158
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<220>
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<400> 31158
ggcaaagugg ggcgggcg 18

<210> 31159
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<220>
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<400> 31159
aggcaaagug gggcgggcg 19

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<220>
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<400> 31160
uaggcaaagu ggggcgggcg 20

<210> 31161
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<220>
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<400> 31161
auaggcaaag uggggcgggc g 21

<210> 31162
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<220>
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<400> 31162
gauaggcaaa gugggggcggg cg 22

<210> 31163
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<220>
<223> Synthetic oligonucleotide: FAS-4194

<400> 31163
ggauaggcaa agugggggcgg gcg 23

<210> 31164
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<220>
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<400> 31164
gggauaggca aagugggggcg ggcg 24

<210> 31165
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<220>
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<400> 31165
aaggcuccug uacccagg 18

<210> 31166
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<220>
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<400> 31166
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<210> 31167
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<220>
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<400> 31167
ccaaggcucc uguacccagg 20

<210> 31168
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<220>
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<400> 31168
gccaaggcuc cuguacccag g 21

<210> 31169
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<220>
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<400> 31169
agccaaggcu ccuguaccca gg 22

<210> 31170
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<400> 31170
uagccaaggc uccuguaccc agg 23

<210> 31171
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<220>
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<400> 31171
uuagccaagg cuccuguacc cagg 24

<210> 31172
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<400> 31172
cagcccuggc ugcccagg 18

<210> 31173
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<220>
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<400> 31173
ccagcccugg cugcccagg 19

<210> 31174
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<220>
<223> Synthetic oligonucleotide: FAS-648

<400> 31174
gccagcccug gcugcccagg 20

<210> 31175
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<220>
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<400> 31175
ggccagcccu ggcugcccag g 21

<210> 31176
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<220>
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<400> 31176
aggccagccc uggcugccca gg 22

<210> 31177
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<220>
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<400> 31177
gaggccagcc cuggcugccc agg 23

<210> 31178
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<220>
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<400> 31178
ugaggccagc ccuggcugcc cagg 24

<210> 31179
<211> 18
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<220>
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<400> 31179
ccucccccaac uucccagg 18

<210> 31180
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<220>
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<400> 31180
accucccccaa cuucccagg 19

<210> 31181
<211> 20
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<220>
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<400> 31181
gaccucccca acuucccagg 20

<210> 31182
<211> 21
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<220>
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<400> 31182
agaccucccc aacuucccag g 21

<210> 31183
<211> 22
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<220>
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<400> 31183
aagaccuccc caacuuccca gg 22

<210> 31184
<211> 23
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<220>
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<400> 31184
caagaccucc ccaacuuccc agg 23

<210> 31185
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<220>
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<400> 31185
ucaagaccuc cccaacuucc cagg 24

<210> 31186
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<220>
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<400> 31186
gagcccucuc cugcccgg 18

<210> 31187
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<220>
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<400> 31187
ugagcccucu ccugcccgg 19

<210> 31188
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<220>
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<400> 31188
gugagcccuc uccugcccgg 20

<210> 31189
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<220>
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<400> 31189
ggugagcccu cuccugcccg g 21

<210> 31190
<211> 22
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<220>
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<400> 31190
uggugagccc ucuccugccc gg 22

<210> 31191
<211> 23
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<220>
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<400> 31191
cuggugagcc cucuccugcc cgg 23

<210> 31192
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<220>
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<400> 31192
ucuggugagc ccucuccugc ccgg 24

<210> 31193
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<220>
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<400> 31193
agaagccuuu agaaaggg 18

<210> 31194
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<220>
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<400> 31194
cagaagccuu uagaaaggg 19

<210> 31195
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<220>
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<400> 31195
gcagaagccu uuagaaaggg 20

<210> 31196
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<220>
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<400> 31196
agcagaagcc uuuagaaagg g 21

<210> 31197
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<220>
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<400> 31197
cagcagaagc cuuuagaaag gg 22

<210> 31198
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<220>
<223> Synthetic oligonucleotide: FAS-4218

<400> 31198
acagcagaag ccuuuagaaa ggg 23

<210> 31199
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<220>
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<400> 31199
uacagcagaa gccuuuagaa aggg 24

<210> 31200
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<220>
<223> Synthetic oligonucleotide: FAS-4220

<400> 31200
uuggcuggag ccucaggg 18

<210> 31201
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<220>
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<400> 31201
cuuggcugga gccucaggg 19

<210> 31202
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<220>
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<400> 31202
acuuggcugg agccucaggg 20

<210> 31203
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<220>
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<400> 31203
gacuuggcug gagccucagg g 21

<210> 31204
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<220>
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<400> 31204
ugacuuggcu ggagccucag gg 22

<210> 31205
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<220>
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<400> 31205
gugacuuggc uggagccuca ggg 23

<210> 31206
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<220>
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<400> 31206
agugacuugg cuggagccuc aggg 24

<210> 31207
<211> 18
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<220>
<223> Synthetic oligonucleotide: FAS-2599

<400> 31207
agcccucucc ugcccggg 18

<210> 31208
<211> 19
<212> RNA
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<220>
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<400> 31208
gagcccucuc cugcccggg 19

<210> 31209
<211> 20
<212> RNA
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<220>
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<400> 31209
ugagcccucu ccugcccggg 20

<210> 31210
<211> 21
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<220>
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<400> 31210
gugagcccuc uccugcccgg g 21

<210> 31211
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<210> 31218
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<210> 31219
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<210> 31220
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<210> 31221
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<210> 31225
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<210> 31226
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<210> 31227
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<210> 31240
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<210> 31241
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<210> 31262
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<210> 31263
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<220>
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<210> 31264
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<210> 31290
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<210> 31293
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<210> 31294
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<210> 31295
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gcagcggcgc acgcgggcac cu 22

<210> 31296
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<220>
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<400> 31296
ggcagcggcg cacgcgggca ccu 23

<210> 31297
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<400> 31297
cggcagcggc gcacgcgggc accu 24

<210> 31298
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<210> 31299
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agugacuugg cuggagccu 19

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<210> 31301
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<210> 31302
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<210> 31303
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uacgagugac uuggcuggag ccu 23

<210> 31304
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<400> 31304
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<210> 31305
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<220>
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<400> 31305
aggcaggacc ucugcgcu 18

<210> 31306
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<220>
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<400> 31306
caggcaggac cucugcgcu 19

<210> 31307
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<400> 31307
ccaggcagga ccucugcgcu 20

<210> 31308
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<210> 31309
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<220>
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<210> 31310
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<210> 31311
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<220>
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<400> 31311
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<210> 31312
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<220>
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<400> 31312
uccauuccag aaacgucu 18

<210> 31313
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<220>
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<400> 31313
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<210> 31314
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<220>
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<400> 31314
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<210> 31315
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<400> 31315
cuguccauuc cagaaacguc u 21

<210> 31316
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<220>
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<400> 31316
acuguccauu ccagaaacgu cu 22

<210> 31317
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<220>
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<400> 31317
aacuguccau uccagaaacg ucu 23

<210> 31318
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<220>
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<400> 31318
uaacugucca uuccagaaac gucu 24

<210> 31319
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<220>
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<400> 31319
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<400> 31320
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<210> 31321
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<210> 31322
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<210> 31323
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<400> 31323
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<210> 31324
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<400> 31324
cacagguguu caaagacgcu ucu 23

<210> 31325
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<400> 31325
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<210> 31326
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<400> 31326
uugguggacc cgcucagu 18

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<220>
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<400> 31327
guugguggac ccgcucagu 19

<210> 31328
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<210> 31329
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<210> 31330
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<400> 31330
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<210> 31331
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<210> 31332
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<220>
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cgcggguugg uggacccgcu cagu 24

<210> 31333
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<210> 31351
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<210> 31352
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<210> 31358
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<210> 31359
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<210> 31360
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<210> 31361
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<210> 31363
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<210> 31365
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<210> 31366
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<210> 31367
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<210> 31368
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<400> 31368
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<220>
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<210> 31374
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<400> 31374
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<210> 31375
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<400> 31375
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<210> 31380
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<400> 31382
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<210> 31387
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<210> 31388
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<400> 31391
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<210> 31392
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<220>
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<400> 31392
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<210> 31393
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<400> 31393
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<210> 31394
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<220>
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<210> 31395
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<210> 31396
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agagcuuggu ggacgaugcc aa 22

<210> 31401
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cagagcuugg uggacgaugc caa 23

<210> 31402
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<400> 31402
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<210> 31403
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<400> 31403
agugacagau gcaaaaca 18

<210> 31404
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<400> 31404
cagugacaga ugcaaaaca 19

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<210> 31408
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<210> 31409
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<400> 31409
aagugcagug acagaugcaa aaca 24

<210> 31410
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<400> 31410
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<210> 31414
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<210> 31415
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<210> 31416
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<400> 31416
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<210> 31417
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<220>
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guguucacca gagcacga 18

<210> 31418
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aguguucacc agagcacga 19

<210> 31419
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<220>
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<220>
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<400> 31421
aacaguguuc accagagcac ga 22

<210> 31422
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<220>
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<400> 31422
gaacaguguu caccagagca cga 23

<210> 31423
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<400> 31423
ugaacagugu ucaccagagc acga 24

<210> 31424
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<400> 31424
guuauuaaug uguuauua 18

<210> 31425
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<220>
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<400> 31425
gguuauuaau guguuauua 19

<210> 31426
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<210> 31427
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<220>
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<210> 31428
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<220>
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<400> 31428
aaggguuauu aauguguuau ua 22

<210> 31429
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<400> 31429
aaaggguuau uaauguguua uua 23

<210> 31430
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<220>
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<400> 31430
caaaggguua uuaauguguu auua 24

<210> 31431
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<220>
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<400> 31431
uccgcuccuc ucuccaac 18

<210> 31432
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<220>
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<400> 31432
uuccgcuccu cucuccaac 19

<210> 31433
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<220>
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<400> 31433
guuccgcucc ucucuccaac 20

<210> 31434
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<220>
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<400> 31434
aguuccgcuc cucucuccaa c 21

<210> 31435
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<220>
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<400> 31435
gaguuccgcu ccucucucca ac 22

<210> 31436
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<220>
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<400> 31436
ggaguuccgc uccucucucc aac 23

<210> 31437
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<220>
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<400> 31437
aggaguuccg cuccucucuc caac 24

<210> 31438
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<220>
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<400> 31438
gcuugucagg gcuugucc 18

<210> 31439
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<400> 31439
ggcuugucag ggcuugucc 19

<210> 31440
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<220>
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<400> 31440
uggcuuguca gggcuugucc 20

<210> 31441
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<220>
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<400> 31441
uuggcuuguc agggcuuguc c 21

<210> 31442
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<220>
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<400> 31442
cuuggcuugu cagggcuugu cc 22

<210> 31443
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<220>
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<400> 31443
gcuuggcuug ucagggcuug ucc 23

<210> 31444
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<213> Artificial Sequence

<220>
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<400> 31444
ggcuuggcuu gucagggcuu gucc 24

<210> 31445
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<220>
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<400> 31445
gcugccccgc cugcccag 18

<210> 31446
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<220>
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<400> 31446
agcugccccg ccugcccag 19

<210> 31447
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<220>
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<400> 31447
gagcugcccc gccugcccag 20

<210> 31448
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<220>
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<400> 31448
ggagcugccc cgccugccca g 21

<210> 31449
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<220>
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<400> 31449
cggagcugcc ccgccugccc ag 22

<210> 31450
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<220>
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<400> 31450
ccggagcugc cccgccugcc cag 23

<210> 31451
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<220>
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<400> 31451
gccggagcug ccccgccugc ccag 24

<210> 31452
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<220>
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<400> 31452
gugauggaaa gcccucag 18

<210> 31453
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<220>
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<400> 31453
ggugauggaa agcccucag 19

<210> 31454
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<220>
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<400> 31454
gggugaugga aagcccucag 20

<210> 31455
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<400> 31777
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<400> 31783
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gauuuuuuuu uaaagaaaau uggc 24

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<210> 31792
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<210> 31793
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<220>
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<210> 31794
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<220>
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<210> 31795
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<220>
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<210> 31796
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uauuuccuac gucugagaac ugc 23

<210> 31797
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uuauuuccua cgucugagaa cugc 24

<210> 31798
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<210> 31799
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<220>
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<210> 31800
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<210> 31802
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<210> 31803
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<210> 31804
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<400> 31804
aacacagggu gauggaaagc ccuc 24

<210> 31805
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<210> 31806
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<210> 31810
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<210> 31811
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ccuuuagugu guccaguc 18

<210> 31813
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<220>
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aaaccuuuag uguguccagu c 21

<210> 31816
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<220>
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<400> 31816
gaaaccuuua gugugguccag uc 22

<210> 31817
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<220>
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<210> 31818
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<220>
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<400> 31818
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<210> 31819
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<220>
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<400> 31819
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<210> 31820
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<220>
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<400> 31820
uggcuuguca gggcuuguc 19

<210> 31821
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<400> 31846
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<220>
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<210> 31856
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<220>
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<400> 31857
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<210> 31859
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<210> 31861
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<400> 31861
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<210> 31865
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<210> 31866
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<210> 31867
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<210> 31868
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<220>
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<400> 31870
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<210> 31871
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<210> 31872
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<400> 31872
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<210> 31873
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<210> 31874
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<210> 31875
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<400> 31878
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<400> 31879
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<210> 31881
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<400> 31882
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<400> 31883
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<220>
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<210> 31889
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<220>
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<220>
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<210> 31892
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<400> 31892
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<400> 31893
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<210> 31894
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<210> 31895
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<220>
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<400> 31895
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<210> 31896
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<220>
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<400> 31902
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<220>
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<400> 31903
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<400> 31904
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<210> 31906
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<400> 31906
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<210> 31907
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<400> 31908
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<400> 31909
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<400> 31910
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<400> 31911
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<220>
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<210> 31914
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<210> 31916
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<400> 31916
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<220>
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<400> 31917
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<210> 31918
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<220>
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<400> 31918
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<210> 31919
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<220>
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<400> 31919
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<210> 31920
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<400> 31920
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<210> 31921
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<220>
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<400> 31921
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<210> 31922
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<220>
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<400> 31922
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<210> 31923
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<220>
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<400> 31923
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<210> 31924
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<400> 31924
uaauggguug aaucuaau 18

<210> 31925
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<220>
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<400> 31925
uuaauggguu gaaucuaau 19

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<220>
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<210> 31927
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<220>
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<210> 31928
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uuauuaaugg guugaaucua au 22

<210> 31929
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<400> 31929
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<210> 31930
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<400> 31930
uguuauuaau ggguugaauc uaau 24

<210> 31931
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ggguaaccua accuagau 18

<210> 31932
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<220>
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<210> 31933
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<400> 31933
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<210> 31934
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<400> 31934
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<210> 31935
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<220>
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<210> 31936
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<220>
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<400> 31936
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<210> 31937
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<220>
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<400> 31937
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<210> 31938
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<220>
<223> Synthetic oligonucleotide: FAS-4828

<400> 31938
cagaagaaaa ugucaacu 18

<210> 31939
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<220>
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<400> 31939
ccagaagaaa augucaacu 19

<210> 31940
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<220>
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<400> 31940
uccagaagaa aaugucaacu 20

<210> 31941
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<400> 31941
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<210> 31942
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<220>
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<210> 31943
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<210> 31977
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<210> 31978
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<210> 31979
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<400> 31980
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<210> 31981
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<210> 31983
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<210> 31986
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<400> 31987
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<400> 31988
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<210> 31991
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<210> 31994
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<210> 31997
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<210> 31998
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<210> 31999
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<400> 32001
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<210> 32002
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<400> 32002
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<400> 32003
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<210> 32005
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<210> 32006
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agcggaccuu uggcuuggcu ugu 23

<210> 32007
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<210> 32008
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uauuaauggg uugaaucuaa uu 22

<210> 32013
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<210> 32014
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<400> 32015
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aaagaaaagg ugccguucuu 20

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gaaagaaaag gugccguucu u 21

<210> 32019
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agaaagaaaa ggugccguuc uu 22

<210> 32020
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gagaaagaaa aggugccguu cuu 23

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<210> 32022
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<210> 32028
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<210> 32041
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<400> 32047
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<210> 32048
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<210> 32049
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<400> 32049
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<210> 32050
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<210> 32051
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<210> 32052
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<220>
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<210> 32053
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<210> 32054
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<400> 32054
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<210> 32055
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<210> 32056
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<210> 32057
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<210> 32060
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<210> 32061
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<210> 32062
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<210> 32063
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<210> 32064
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<210> 32068
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<400> 32068
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<210> 32069
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<210> 32070
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<210> 32071
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<400> 32071
ggggaccccg guuggaga 18

<210> 32072
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<400> 32072
gggggacccc gguuggaga 19

<210> 32073
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<210> 32074
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<210> 32076
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<210> 32077
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<210> 32078
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<220>
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<400> 32078
ccccgguugg agagagga 18

<210> 32079
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<220>
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<400> 32079
accccgguug gagagagga 19

<210> 32080
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<210> 32083
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<220>
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<210> 32084
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<400> 32084
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<210> 32085
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<210> 32086
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<400> 32086
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<220>
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<210> 32088
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<210> 32089
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<400> 32089
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<210> 32090
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<210> 32091
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<210> 32092
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<220>
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<210> 32094
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<220>
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<210> 32095
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<210> 32096
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<210> 32097
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<400> 32097
gcgccgcccc gcgggggcgg gga 23

<210> 32098
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<220>
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<400> 32098
cgcgccgccc cgcgggggcg ggga 24

<210> 32099
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<220>
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<400> 32099
agcuuuaggg ucgcugga 18

<210> 32100
<211> 19
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<220>
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<400> 32100
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<210> 32101
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<220>
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<400> 32101
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<210> 32102
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<210> 32103
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<400> 32103
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<210> 32104
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<400> 32104
ugggaagcuu uagggucgcu gga 23

<210> 32105
<211> 24
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<223> Synthetic oligonucleotide: FAS-4971

<400> 32105
cugggaagcu uuagggucgc ugga 24

<210> 32106
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<400> 32106
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<210> 32107
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<400> 32107
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<210> 32108
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<220>
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<210> 32112
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<210> 32113
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<210> 32115
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<210> 32117
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<210> 32119
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<400> 32120
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<400> 32121
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<210> 32122
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<210> 32125
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<220>
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<400> 32125
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<210> 32126
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<220>
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<210> 32127
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<220>
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<400> 32127
aguuuagcau gaauuuua 18

<210> 32128
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<220>
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<210> 32131
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<220>
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<400> 32131
agguaguuua gcaugaauuu ua 22

<210> 32132
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<220>
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<400> 32132
uagguaguuu agcaugaauu uua 23

<210> 32133
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<220>
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<400> 32133
uuagguaguu uagcaugaau uuua 24

<210> 32134
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<220>
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<400> 32134
gugagugcgc gccgcccc 18

<210> 32135
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<220>
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<400> 32135
ggugagugcg cgccgcccc 19

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<220>
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<220>
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<220>
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<400> 32138
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<210> 32139
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<220>
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ggugggugag ugcgcgccgc ccc 23

<210> 32140
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<400> 32140
gggugggguga gugcgcgccg cccc 24

<210> 32141
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<400> 32141
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<400> 32142
gcguuggaga cuggcuccc 19

<210> 32143
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<220>
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<400> 32143
ggcguuggag acuggcuccc 20

<210> 32144
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<210> 32145
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<220>
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<210> 32146
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<220>
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<210> 32147
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gggaggcguu ggagacuggc uccc 24

<210> 32148
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<400> 32148
gggcagcucc ggcgcucc 18

<210> 32149
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<400> 32149
ggggcagcuc cggcgcucc 19

<210> 32150
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<220>
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<400> 32150
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<210> 32151
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<220>
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<400> 32151
gcggggcagc uccggcgcuc c 21

<210> 32152
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<220>
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<400> 32152
ggcggggcag cuccggcgcu cc 22

<210> 32153
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<220>
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<400> 32153
aggcggggca gcuccggcgc ucc 23

<210> 32154
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<220>
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<400> 32154
caggcggggc agcuccggcg cucc 24

<210> 32155
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<220>
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<400> 32155
gcguuggaga cuggcucc 18

<210> 32156
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<220>
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<400> 32156
ggcguuggag acuggcucc 19

<210> 32157
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<220>
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<400> 32157
aggcguugga gacuggcucc 20

<210> 32158
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<220>
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<400> 32158
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<210> 32159
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<220>
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<400> 32159
ggaggcguug gagacuggcu cc 22

<210> 32160
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<220>
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<400> 32160
gggaggcguu ggagacuggc ucc 23

<210> 32161
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<220>
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<400> 32161
cgggaggcgu uggagacugg cucc 24

<210> 32162
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<220>
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<400> 32162
ccgaagcagu gguuaagc 18

<210> 32163
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<220>
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<400> 32163
accgaagcag ugguuaagc 19

<210> 32164
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<220>
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<400> 32164
caccgaagca gugguuaagc 20

<210> 32165
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<220>
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<400> 32165
gcaccgaagc agugguuaag c 21

<210> 32166
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<220>
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<400> 32166
agcaccgaag cagugguuaa gc 22

<210> 32167
<211> 23
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<220>
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<400> 32167
cagcaccgaa gcagugguua agc 23

<210> 32168
<211> 24
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<220>
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<400> 32168
ucagcaccga agcagugguu aagc 24

<210> 32169
<211> 18
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<220>
<223> Synthetic oligonucleotide: FAS-5026

<400> 32169
cccgggugcu cagaacgc 18

<210> 32170
<211> 19
<212> RNA
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<220>
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<400> 32170
gcccgggugc ucagaacgc 19

<210> 32171
<211> 20
<212> RNA
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<220>
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<400> 32171
ggcccgggug cucagaacgc 20

<210> 32172
<211> 21
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<220>
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<400> 32172
aggcccgggu gcucagaacg c 21

<210> 32173
<211> 22
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<220>
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<400> 32173
caggcccggg ugcucagaac gc 22

<210> 32174
<211> 23
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<220>
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<400> 32174
ucaggcccgg gugcucagaa cgc 23

<210> 32175
<211> 24
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<220>
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<400> 32175
cucaggcccg ggugcucaga acgc 24

<210> 32176
<211> 18
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<220>
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<400> 32176
gagugcgcgc cgccccgc 18

<210> 32177
<211> 19
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<220>
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<400> 32177
ugagugcgcg ccgccccgc 19

<210> 32178
<211> 20
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<220>
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<400> 32178
gugagugcgc gccgccccgc 20

<210> 32179
<211> 21
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<220>
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<400> 32179
ggugagugcg cgccgccccg c 21

<210> 32180
<211> 22
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<220>
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<400> 32180
gggugagugc gcgccgcccc gc 22

<210> 32181
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<220>
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<400> 32181
ugggugagug cgcgccgccc cgc 23

<210> 32182
<211> 24
<212> RNA
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<220>
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<400> 32182
gugggugagu gcgcgccgcc ccgc 24

<210> 32183
<211> 18
<212> RNA
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<220>
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<400> 32183
gggaagcuuu agggucgc 18

<210> 32184
<211> 19
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<220>
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<400> 32184
ugggaagcuu uagggucgc 19

<210> 32185
<211> 20
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<220>
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<400> 32185
cugggaagcu uuagggucgc 20

<210> 32186
<211> 21
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<220>
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<400> 32186
ucugggaagc uuuagggucg c 21

<210> 32187
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<400> 32187
gucugggaag cuuuaggguc gc 22

<210> 32188
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<223> Synthetic oligonucleotide: FAS-5042

<400> 32188
agucugggaa gcuuuagggu cgc 23

<210> 32189
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<223> Synthetic oligonucleotide: FAS-5043

<400> 32189
aagucuggga agcuuuaggg ucgc 24

<210> 32190
<211> 18
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<400> 32190
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<210> 32191
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<220>
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<400> 32191
agugguuaag ccggagggc 19

<210> 32192
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<400> 32192
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<210> 32193
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<400> 32193
gcagugguua agccggaggg c 21

<210> 32194
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<400> 32194
agcagugguu aagccggagg gc 22

<210> 32195
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<400> 32195
aagcaguggu uaagccggag ggc 23

<210> 32196
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<400> 32196
gaagcagugg uuaagccgga gggc 24

<210> 32197
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<220>
<223> Synthetic oligonucleotide: FAS-5050

<400> 32197
gcgccgcccc gcgggggc 18

<210> 32198
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<220>
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<400> 32198
cgcgccgccc cgcgggggc 19

<210> 32199
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<220>
<223> Synthetic oligonucleotide: FAS-1953

<400> 32199
gcgcgccgcc ccgcgggggc 20

<210> 32200
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<220>
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<400> 32200
ugcgcgccgc cccgcggggg c 21

<210> 32201
<211> 22
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<220>
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<400> 32201
gugcgcgccg ccccgcgggg gc 22

<210> 32202
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<212> RNA
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<220>
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<400> 32202
agugcgcgcc gccccgcggg ggc 23

<210> 32203
<211> 24
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<220>
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<400> 32203
gagugcgcgc cgccccgcgg gggc 24

<210> 32204
<211> 18
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<220>
<223> Synthetic oligonucleotide: FAS-5056

<400> 32204
cuccacguug aggugggc 18

<210> 32205
<211> 19
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<220>
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<400> 32205
gcuccacguu gaggugggc 19

<210> 32206
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<220>
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<400> 32206
cgcuccacgu ugaggugggc 20

<210> 32207
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<220>
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<400> 32207
gcgcuccacg uugagguggg c 21

<210> 32208
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<220>
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<400> 32208
ugcgcuccac guugaggugg gc 22

<210> 32209
<211> 23
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<220>
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<400> 32209
cugcgcucca cguugaggug ggc 23

<210> 32210
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<400> 32210
acugcgcucc acguugaggu gggc 24

<210> 32211
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<220>
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<400> 32211
gagagaggag cggaacuc 18

<210> 32212
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<220>
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<400> 32212
ggagagagga gcggaacuc 19

<210> 32213
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<220>
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<400> 32213
uggagagagg agcggaacuc 20

<210> 32214
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<220>
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<400> 32214
uuggagagag gagcggaacu c 21

<210> 32215
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<220>
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<400> 32215
guuggagaga ggagcggaac uc 22

<210> 32216
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<220>
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<400> 32216
gguuggagag aggagcggaa cuc 23

<210> 32217
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<220>
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<400> 32217
cgguuggaga gaggagcgga acuc 24

<210> 32218
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<400> 32218
cuagguuagg uuacccuc 18

<210> 32219
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<220>
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<400> 32219
ucuagguuag guuacccuc 19

<210> 32220
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<400> 32220
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<210> 32221
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<400> 32221
aaucuagguu agguuacccu c 21

<210> 32222
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<400> 32222
aaaucuaggu uagguuaccc uc 22

<210> 32223
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<220>
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<400> 32223
caaaucuagg uuagguuacc cuc 23

<210> 32224
<211> 24
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<400> 32224
ucaaaucuag guuagguuac ccuc 24

<210> 32225
<211> 18
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<220>
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<400> 32225
ggcguuggag acuggcuc 18

<210> 32226
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<400> 32226
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<400> 32227
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<220>
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<400> 32228
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<400> 32229
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<210> 32230
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<210> 32231
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<400> 32231
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<210> 32232
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<400> 32233
aggaauugaa gcggaaguc 19

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acaggaauug aagcggaagu c 21

<210> 32236
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<400> 32236
gacaggaauu gaagcggaag uc 22

<210> 32237
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<400> 32237
ggacaggaau ugaagcggaa guc 23

<210> 32238
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<220>
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<400> 32238
cggacaggaa uugaagcgga aguc 24

<210> 32239
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ucaguugaca uuuucuuc 18

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<400> 32242
cucucaguug acauuuucuu c 21

<210> 32243
<211> 22
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<210> 32244
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<400> 32244
uccucucagu ugacauuuuc uuc 23

<210> 32245
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<220>
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<400> 32245
uuccucucag uugacauuuu cuuc 24

<210> 32246
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<400> 32246
aacggcaccu uuucuuuc 18

<210> 32247
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<220>
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<400> 32247
gaacggcacc uuuucuuuc 19

<210> 32248
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<220>
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<400> 32248
agaacggcac cuuuucuuuc 20

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<400> 32249
aagaacggca ccuuuucuuu c 21

<210> 32250
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<220>
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<400> 32250
gaagaacggc accuuuucuu uc 22

<210> 32251
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<220>
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<400> 32251
ggaagaacgg caccuuuucu uuc 23

<210> 32252
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<220>
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<400> 32252
cggaagaacg gcaccuuuuc uuuc 24

<210> 32253
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<220>
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<400> 32253
cuggaggacu ugcuuuuc 18

<210> 32254
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<220>
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<400> 32254
gcuggaggac uugcuuuuc 19

<210> 32255
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<220>
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<400> 32255
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<210> 32256
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<220>
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<400> 32256
acgcuggagg acuugcuuuu c 21

<210> 32257
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<220>
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<400> 32257
aacgcuggag gacuugcuuu uc 22

<210> 32258
<211> 23
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<220>
<223> Synthetic oligonucleotide: FAS-5102

<400> 32258
gaacgcugga ggacuugcuu uuc 23

<210> 32259
<211> 24
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<223> Synthetic oligonucleotide: FAS-5103

<400> 32259
agaacgcugg aggacuugcu uuuc 24

<210> 32260
<211> 18
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<220>
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<400> 32260
ugcggacagg aauugaag 18

<210> 32261
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<220>
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<400> 32261
gugcggacag gaauugaag 19

<210> 32262
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<220>
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<400> 32262
ggugcggaca ggaauugaag 20

<210> 32263
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<220>
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<400> 32263
gggugcggac aggaauugaa g 21

<210> 32264
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ggggugcgga caggaauuga ag 22

<210> 32265
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<220>
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<400> 32265
uggggugcgg acaggaauug aag 23

<210> 32266
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<220>
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<400> 32266
gugggggugcg gacaggaauu gaag 24

<210> 32267
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<400> 32267
accgaagcag ugguuaag 18

<210> 32268
<211> 19
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<400> 32268
caccgaagca gugguuaag 19

<210> 32269
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<220>
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<400> 32269
gcaccgaagc agugguuaag 20

<210> 32270
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<400> 32270
agcaccgaag cagugguuaa g 21

<210> 32271
<211> 22
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<220>
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<400> 32271
cagcaccgaa gcagugguua ag 22

<210> 32272
<211> 23
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<220>
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<400> 32272
ucagcaccga agcagugguu aag 23

<210> 32273
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<220>
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<400> 32273
gucagcaccg aagcaguggu uaag 24

<210> 32274
<211> 18
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<220>
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<400> 32274
gcugaccccg cugggcag 18

<210> 32275
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<220>
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<400> 32275
ugcugacccc gcugggcag 19

<210> 32276
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<400> 32276
gugcugaccc cgcugggcag 20

<210> 32277
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<220>
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<400> 32277
agugcugacc ccgcugggca g 21

<210> 32278
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<400> 32278
aagugcugac cccgcugggc ag 22

<210> 32279
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<220>
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<400> 32279
gaagugcuga ccccgcuggg cag 23

<210> 32280
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<220>
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<400> 32280
cgaagugcug accccgcugg gcag 24

<210> 32281
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<400> 32281
gggaccccgg uuggagag 18

<210> 32282
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<220>
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<400> 32282
ggggaccccg guuggagag 19

<210> 32283
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<220>
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<400> 32283
gggggacccc gguuggagag 20

<210> 32284
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<220>
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<400> 32284
agggggaccc cgguuggaga g 21

<210> 32285
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<220>
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<400> 32285
gagggggacc ccgguuggag ag 22

<210> 32286
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<220>
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<400> 32286
ggaggggggac cccgguugga gag 23

<210> 32287
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<220>
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<400> 32287
uggaggggga ccccgguugg agag 24

<210> 32288
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<220>
<223> Synthetic oligonucleotide: FAS-5128

<400> 32288
cccgguugga gagaggag 18

<210> 32289
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<220>
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<400> 32289
ccccgguugg agagaggag 19

<210> 32290
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<220>
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<400> 32290
accccgguug gagagaggag 20

<210> 32291
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<220>
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<400> 32291
gaccccgguu ggagagagga g 21

<210> 32292
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<220>
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<400> 32292
ggaccccggu uggagagagg ag 22

<210> 32293
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<220>
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<400> 32293
gggaccccgg uuggagagag gag 23

<210> 32294
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<220>
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<400> 32294
ggggaccccg guuggagaga ggag 24

<210> 32295
<211> 18
<212> RNA
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<220>
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<400> 32295
gcuuuagggu cgcuggag 18

<210> 32296
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<220>
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<400> 32296
agcuuuaggg ucgcuggag 19

<210> 32297
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<220>
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<400> 32297
aagcuuuagg gucgcuggag 20

<210> 32298
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<400> 32298
gaagcuuuag ggucgcugga g 21

<210> 32299
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<220>
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<400> 32299
ggaagcuuua gggucgcugg ag 22

<210> 32300
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<212> RNA
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<220>
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<400> 32300
gggaagcuuu agggucgcug gag 23

<210> 32301
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<212> RNA
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<220>
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<400> 32301
ugggaagcuu uagggucgcu ggag 24

<210> 32302
<211> 18
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<220>
<223> Synthetic oligonucleotide: FAS-5140

<400> 32302
acugcgcucc acguugag 18

<210> 32303
<211> 19
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<220>
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<400> 32303
cacugcgcuc cacguugag 19

<210> 32304
<211> 20
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<220>
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<400> 32304
ccacugcgcu ccacguugag 20

<210> 32305
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<220>
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<400> 32305
accacugcgc uccacguuga g 21

<210> 32306
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: FAS-5143

<400> 32306
gaccacugcg cuccacguug ag 22

<210> 32307
<211> 23
<212> RNA
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<220>
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<400> 32307
agaccacugc gcuccacguu gag 23

<210> 32308
<211> 24
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<400> 32308
gagaccacug cgcuccacgu ugag 24

<210> 32309
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<400> 32309
gcccgggugc ucagaacg 18

<210> 32310
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ggcccgggug cucagaacg 19

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<400> 32311
aggcccgggu gcucagaacg 20

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<400> 32312
caggcccggg ugcucagaac g 21

<210> 32313
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<400> 32313
ucaggcccgg gugcucagaa cg 22

<210> 32314
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<400> 32314
cucaggcccg ggugcucaga acg 23

<210> 32315
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<400> 32315
ccucaggccc gggugcucag aacg 24

<210> 32316
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agaccacugc gcuccacg 18

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<400> 32317
gagaccacug cgcuccacg 19

<210> 32318
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<220>
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<210> 32319
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<220>
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<400> 32319
cggagaccac ugcgcuccac g 21

<210> 32320
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<400> 32320
ucggagacca cugcgcucca cg 22

<210> 32321
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<220>
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<400> 32321
cucggagacc acugcgcucc acg 23

<210> 32322
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<220>
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ccucggagac cacugcgcuc cacg 24

<210> 32323
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<220>
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<400> 32323
ucuggcaguu cucagacg 18

<210> 32324
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<220>
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<400> 32324
uucuggcagu ucucagacg 19

<210> 32325
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<220>
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<400> 32325
uuucuggcag uucucagacg 20

<210> 32326
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<220>
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<400> 32326
uuuucuggca guucucagac g 21

<210> 32327
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<220>
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<400> 32327
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<210> 32328
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<220>
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<400> 32328
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<210> 32329
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<400> 32329
ucauuuucug gcaguucuca gacg 24

<210> 32330
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<220>
<223> Synthetic oligonucleotide: FAS-5164

<400> 32330
ugcgaagugc ugaccccg 18

<210> 32331
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<220>
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<400> 32331
augcgaagug cugaccccg 19

<210> 32332
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<220>
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<400> 32332
gaugcgaagu gcugaccccg 20

<210> 32333
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<220>
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<400> 32333
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<210> 32334
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<220>
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<400> 32334
uugaugcgaa gugcugaccc cg 22

<210> 32335
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<220>
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<400> 32335
cuugaugcga agugcugacc ccg 23

<210> 32336
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<220>
<223> Synthetic oligonucleotide: FAS-5169

<400> 32336
ccuugaugcg aagugcugac cccg 24

<210> 32337
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<220>
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<400> 32337
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<210> 32338
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<220>
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<400> 32338
gugagugcgc gccgccccg 19

<210> 32339
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<220>
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<400> 32339
ggugagugcg cgccgccccg 20

<210> 32340
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<220>
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<400> 32340
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<210> 32341
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<220>
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<400> 32341
ugggugagug cgcgccgccc cg 22

<210> 32342
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<220>
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<400> 32342
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<210> 32343
<211> 24
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<220>
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<400> 32343
gguggggugag ugcgcgccgc cccg 24

<210> 32344
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<220>
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<400> 32344
gaagcagugg uuaagccg 18

<210> 32345
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<400> 32345
cgaagcagug guuaagccg 19

<210> 32346
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<220>
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<400> 32346
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<210> 32347
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<400> 32347
accgaagcag ugguuaagcc g 21

<210> 32348
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<220>
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<400> 32348
caccgaagca gugguuaagc cg 22

<210> 32349
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<220>
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<400> 32349
gcaccgaagc agugguuaag ccg 23

<210> 32350
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agcaccgaag cagugguuaa gccg 24

<210> 32351
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<220>
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<400> 32351
gggcugcugc gggaggcg 18

<210> 32352
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<220>
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<400> 32352
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<400> 32353
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<210> 32354
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<210> 32355
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<220>
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gcgccgcccc gcgggggcg 19

<210> 32356
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<220>
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<400> 32356
cgcgccgccc cgcgggggcg 20

<210> 32357
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<400> 32357
gcgcgccgcc ccgcgggggc g 21

<210> 32358
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<220>
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<400> 32358
ugcgcgccgc cccgcggggg cg 22

<210> 32359
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<220>
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<400> 32359
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<210> 32360
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<400> 32360
agugcgcgcc gccccgcggg ggcg 24

<210> 32361
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<400> 32361
ugggaagcuu uagggucg 18

<210> 32362
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<220>
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<400> 32362
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<210> 32363
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<210> 32364
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<400> 32364
gucugggaag cuuuaggguc g 21

<210> 32365
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<400> 32365
agucugggaa gcuuuagggu cg 22

<210> 32366
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<400> 32366
aagucuggga agcuuuaggg ucg 23

<210> 32367
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<400> 32367
gaagucuggg aagcuuuagg gucg 24

<210> 32368
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<220>
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<400> 32368
cugaccccgc ugggcagg 18

<210> 32369
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<400> 32369
gcugaccccg cugggcagg 19

<210> 32370
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<220>
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<400> 32370
ugcugacccc gcugggcagg 20

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<400> 32371
gugcugaccc cgcugggcag g 21

<210> 32372
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<400> 32372
agugcugacc ccgcugggca gg 22

<210> 32373
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<400> 32373
aagugcugac cccgcugggc agg 23

<210> 32374
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<400> 32374
gaagugcuga ccccgcuggg cagg 24

<210> 32375
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<220>
<223> Synthetic oligonucleotide: FAS-5202

<400> 32375
gcuggagggg gaccccgg 18

<210> 32376
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<400> 32376
cgcuggaggg ggaccccgg 19

<210> 32377
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<220>
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<400> 32377
ucgcuggagg gggaccccgg 20

<210> 32378
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<220>
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<400> 32378
gucgcuggag ggggaccccg g 21

<210> 32379
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<220>
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<400> 32379
ggucgcugga gggggacccc gg 22

<210> 32380
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<400> 32380
gggucgcugg agggggaccc cgg 23

<210> 32381
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<220>
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<400> 32381
agggucgcug gagggggacc ccgg 24

<210> 32382
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<220>
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<400> 32382
uuaagccgga gggcucgg 18

<210> 32383
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<220>
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<400> 32383
guuaagccgg agggcucgg 19

<210> 32384
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<220>
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<400> 32384
gguuaagccg gagggcucgg 20

<210> 32385
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<220>
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<400> 32385
ugguuaagcc ggagggcucg g 21

<210> 32386
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<400> 32386
gugguuaagc cggagggcuc gg 22

<210> 32387
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<220>
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<400> 32387
agugguuaag ccggagggcu cgg 23

<210> 32388
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<220>
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<400> 32388
cagugguuaa gccggagggc ucgg 24

<210> 32389
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<220>
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<400> 32389
ccgccccgcg ggggcggg 18

<210> 32390
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<220>
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<400> 32390
gccgccccgc gggggcggg 19

<210> 32391
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<220>
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<400> 32391
cgccgccccg cgggggcggg 20

<210> 32392
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<220>
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<400> 32392
gcgccgcccc gcgggggcgg g 21

<210> 32393
<211> 22
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<220>
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<400> 32393
cgcgccgccc cgcgggggcg gg 22

<210> 32394
<211> 23
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<220>
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<400> 32394
gcgcgccgcc ccgcgggggc ggg 23

<210> 32395
<211> 24
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<220>
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<400> 32395
ugcgcgccgc cccgcggggg cggg 24

<210> 32396
<211> 18
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<213> Artificial Sequence

<220>
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<400> 32396
gcgcgccgcc ccgcgggg 18

<210> 32397
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<220>
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<400> 32397
ugcgcgccgc cccgcgggg 19

<210> 32398
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<220>
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<400> 32398
gugcgcgccg ccccgcgggg 20

<210> 32399
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<220>
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<400> 32399
agugcgcgcc gccccgcggg g 21

<210> 32400
<211> 22
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<220>
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<400> 32400
gagugcgcgc cgccccgcgg gg 22

<210> 32401
<211> 23
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<220>
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<400> 32401
ugagugcgcg ccgccccgcg ggg 23

<210> 32402
<211> 24
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<220>
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<400> 32402
gugagugcgc gccgccccgc gggg 24

<210> 32403
<211> 18
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<220>
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<400> 32403
cgcgccgccc cgcggggg 18

<210> 32404
<211> 19
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<220>
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<400> 32404
gcgcgccgcc ccgcggggg 19

<210> 32405
<211> 20
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<220>
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<400> 32405
ugcgcgccgc cccgcggggg 20

<210> 32406
<211> 21
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<220>
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<400> 32406
gugcgcgccg ccccgcgggg g 21

<210> 32407
<211> 22
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<220>
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<400> 32407
agugcgcgcc gccccgcggg gg 22

<210> 32408
<211> 23
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<220>
<223> Synthetic oligonucleotide: FAS-5230

<400> 32408
gagugcgcgc cgccccgcgg ggg 23

<210> 32409
<211> 24
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<220>
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<400> 32409
ugagugcgcg ccgccccgcg gggg 24

<210> 32410
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<220>
<223> Synthetic oligonucleotide: FAS-5232

<400> 32410
aagcuuuagg gucgcugg 18

<210> 32411
<211> 19
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<220>
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<400> 32411
gaagcuuuag ggucgcugg 19

<210> 32412
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<220>
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<400> 32412
ggaagcuuua gggucgcugg 20

<210> 32413
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<220>
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<400> 32413
gggaagcuuu agggucgcug g 21

<210> 32414
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<220>
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<400> 32414
ugggaagcuu uagggucgcu gg 22

<210> 32415
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<220>
<223> Synthetic oligonucleotide: FAS-5236

<400> 32415
cugggaagcu uuagggucgc ugg 23

<210> 32416
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<220>
<223> Synthetic oligonucleotide: FAS-5237

<400> 32416
ucugggaagc uuuagggucg cugg 24

<210> 32417
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<220>
<223> Synthetic oligonucleotide: FAS-5238

<400> 32417
cgggugcuca gaacgcug 18

<210> 32418
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<212> RNA
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<220>
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<400> 32418
ccgggugcuc agaacgcug 19

<210> 32419
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<220>
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<400> 32419
cccgggugcu cagaacgcug 20

<210> 32420
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<220>
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<400> 32420
gcccgggugc ucagaacgcu g 21

<210> 32421
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<220>
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<400> 32421
ggcccgggug cucagaacgc ug 22

<210> 32422
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<220>
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<400> 32422
aggcccgggu gcucagaacg cug 23

<210> 32423
<211> 24
<212> RNA
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<220>
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<400> 32423
caggcccggg ugcucagaac gcug 24

<210> 32424
<211> 18
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<220>
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<400> 32424
gaagcuuuag ggucgcug 18

<210> 32425
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<220>
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<400> 32425
ggaagcuuua gggucgcug 19

<210> 32426
<211> 20
<212> RNA
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<220>
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<400> 32426
gggaagcuuu agggucgcug 20

<210> 32427
<211> 21
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<220>
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<400> 32427
ugggaagcuu uagggucgcu g 21

<210> 32428
<211> 22
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<220>
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<400> 32428
cugggaagcu uuagggucgc ug 22

<210> 32429
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
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<210> 32451
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<220>
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<210> 32457
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<210> 32459
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<220>
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<210> 32464
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<220>
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<210> 32465
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<210> 32477
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<210> 32479
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<220>
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<220>
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<210> 32484
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<220>
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<210> 32485
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<210> 32486
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<220>
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<220>
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<400> 32487
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<220>
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<400> 32488
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<210> 32491
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<400> 32491
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<210> 32492
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<220>
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<400> 32492
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<210> 32493
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<220>
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<210> 32494
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<220>
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<210> 32495
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<220>
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<400> 32496
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<210> 32497
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<400> 32497
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<210> 32498
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<400> 32498
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<210> 32499
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<220>
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<210> 32504
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<210> 32505
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<400> 32505
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<210> 32506
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<400> 32507
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<400> 32508
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<210> 32509
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<400> 32509
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<220>
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<210> 32513
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<210> 32514
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<210> 32515
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<210> 32516
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<400> 32516
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<220>
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<400> 32517
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<220>
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<210> 32519
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<210> 32521
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<210> 32522
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<400> 32523
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<400> 32524
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<400> 32525
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<210> 32526
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<400> 32526
gcuggagggg gaccccggu 19

<210> 32527
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<220>
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<210> 32528
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<210> 32529
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<400> 32529
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<210> 32530
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<400> 32530
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<210> 32531
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<220>
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<400> 32531
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<210> 32532
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<220>
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<400> 32532
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<220>
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<400> 32533
guugaggugg gcgugggguu 19

<210> 32534
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<400> 32534
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<210> 32535
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<400> 32535
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<210> 32536
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<220>
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<400> 32536
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<210> 32537
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<220>
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<400> 32537
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<210> 32538
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<400> 32538
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<210> 32539
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<400> 32539
uuuucuucug gagccugu 18

<210> 32540
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<400> 32540
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<210> 32541
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<210> 32542
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<210> 32543
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<220>
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<400> 32543
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<210> 32544
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<400> 32544
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<210> 32545
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<220>
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<400> 32545
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<210> 32546
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cuggcucccg ggggcugu 18

<210> 32547
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<220>
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<400> 32547
acuggcuccc gggggcugu 19

<210> 32548
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<220>
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<210> 32549
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<220>
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<210> 32550
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<210> 32552
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<400> 32552
uggagacugg cucccggggg cugu 24

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<210> 32558
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<210> 32559
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<210> 32560
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<210> 32564
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<210> 32565
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<210> 32566
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<210> 32567
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<400> 32567
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<220>
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<400> 32568
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<210> 32570
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<220>
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<210> 32571
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<210> 32572
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<220>
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<400> 32572
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<210> 32573
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<210> 32574
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<400> 32574
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<210> 32575
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<400> 32575
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<400> 32576
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<210> 32577
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<220>
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<400> 32577
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<400> 32578
cccauccucc ugaccac 17

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<220>
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<400> 32587
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<210> 32588
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<220>
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<400> 32588
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<210> 32590
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<220>
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<400> 32590
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<210> 32592
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<220>
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<210> 32593
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<220>
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<210> 32594
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<220>
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<220>
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<400> 32601
accucucucc cuuccca 17

<210> 32602
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<400> 32602
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<210> 32603
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<400> 32603
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<210> 32606
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<400> 32606
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<210> 32607
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<400> 32607
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<210> 32608
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<210> 32609
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<210> 32611
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<400> 32611
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<210> 32612
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<400> 32612
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<210> 32613
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<400> 32613
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<210> 32614
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<400> 32614
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<210> 32615
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<220>
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<400> 32615
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<210> 32616
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<220>
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<400> 32616
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<210> 32617
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<210> 32618
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<400> 32618
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<220>
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<400> 32619
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<210> 32620
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<220>
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<400> 32620
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<210> 32621
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<220>
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<400> 32621
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<210> 32622
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<220>
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<400> 32622
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<210> 32623
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<220>
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<400> 32623
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<210> 32624
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<220>
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<400> 32624
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<400> 32625
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<210> 32626
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<220>
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<400> 32626
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<400> 32627
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<210> 32628
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<220>
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<400> 32628
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<210> 32629
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<220>
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<400> 32631
caccagucuu guagguguug 20

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<400> 32632
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<210> 32633
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<220>
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<400> 32635
caccagagca cgaaagaauu 20

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<220>
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cugcggcagc uugcuua 17

<210> 32637
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<220>
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<400> 32637
aagcugccgc agaucgc 17

<210> 32638
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<220>
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<400> 32638
ugcggcagcu ugcuuag 17

<210> 32639
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<220>
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<400> 32639
aaaauucgac cuuuucg 17

<210> 32640
<211> 17
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<400> 32640
gcggcagcuu gcuuagg 17

<210> 32641
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<220>
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ccgaaaaggu cgaauuu 17

<210> 32642
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<400> 32642
cgaaaagguc gaauuuu 17

<210> 32643
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cccguuuuga cuuuuucaua 20

<210> 32644
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gaucugcggc agcuugcuua 20

<210> 32645
<211> 20
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<400> 32645
ggauuuccuc cucgaccacc 20

<210> 32646
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<400> 32646
agcaagcugc cgcagaucgc 20

<210> 32647
<211> 20
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<220>
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<400> 32647
cguaaaugcu gauauguauc 20

<210> 32648
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<220>
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<400> 32648
ggguauuauu gaugcuauuc 20

<210> 32649
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<220>
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<400> 32649
aucugcggca gcuugcuuag 20

<210> 32650
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<220>
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<400> 32650
ggcagaaacc cugguggucg 20

<210> 32651
<211> 20
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<220>
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<400> 32651
cgaucugcgg cagcuugcuu 20

<210> 32652
<211> 20
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<220>
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<400> 32652
uacccaaaau ucgaccuuuu 20

<210> 32653
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<220>
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<400> 32653
uuaugaaaaa gucaaaa 17

<210> 32654
<211> 17
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<220>
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ggaggaaauc cccgaaa 17

<210> 32655
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<220>
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<400> 32655
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<210> 32656
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<220>
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<400> 32656
auggcaaacu caaugaa 17

<210> 32657
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<220>
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<400> 32657
uuccuccucg accacca 17

<210> 32658
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<220>
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<400> 32658
cuuccaaguc uucucca 17

<210> 32659
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<220>
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<400> 32659
acucuuuaaa gaaggca 17

<210> 32660
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<220>
<223> Synthetic oligonucleotide: CBLB-2546

<400> 32660
gaagacuugg aagcuca 17

<210> 32661
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<220>
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<400> 32661
auaagacucu uuaaaga 17

<210> 32662
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<220>
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<400> 32662
agaacuaaaa uuccaga 17

<210> 32663
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<220>
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<400> 32663
guuuugacuu uuucaua 17

<210> 32664
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<220>
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<400> 32664
aaaauaucaa guauaua 17

<210> 32665
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<220>
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<400> 32665
uaugaaaaag ucaaaac 17

<210> 32666
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<220>
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<400> 32666
guaugaagaa cagucac 17

<210> 32667
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<220>
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<400> 32667
aagaacaguc acaggac 17

<210> 32668
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<220>
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<400> 32668
uuuccuccuc gaccacc 17

<210> 32669
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<220>
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<400> 32669
augaauggca gaaaccc 17

<210> 32670
<211> 17
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<220>
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<400> 32670
ucauugaguu ugccauc 17

<210> 32671
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<220>
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<400> 32671
aaaugcugau auguauc 17

<210> 32672
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<220>
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uauuauugau gcuauuc 17

<210> 32673
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<400> 32673
ugaguugggc aaguuuc 17

<210> 32674
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<210> 34116
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<210> 34117
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<210> 34122
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<210> 34123
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<210> 34124
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<210> 34136
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<210> 34137
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<210> 34391
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<210> 34410
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<210> 34411
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<400> 34411
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<210> 34412
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<210> 34418
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<400> 34418
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<220>
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<210> 34459
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<210> 34460
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<210> 34461
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<220>
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<210> 34465
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<210> 34466
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<400> 34466
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<210> 34467
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<210> 34468
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<210> 34469
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<210> 34470
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<210> 34471
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<210> 34472
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<210> 34473
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<210> 34474
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<210> 34475
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<400> 34475
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<210> 34476
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<210> 34477
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<220>
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<210> 34478
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<210> 34479
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<220>
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<400> 34479
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<210> 34480
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<220>
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<210> 34481
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<220>
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<400> 34481
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<210> 34482
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<220>
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<400> 34482
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<210> 34483
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<220>
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<400> 34483
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<210> 34484
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<210> 34485
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<220>
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<210> 34486
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<220>
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<400> 34486
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<210> 34487
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<220>
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<400> 34487
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<210> 34488
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<220>
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<400> 34488
ucuugugaua auggucacug uaug 24

<210> 34489
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<400> 34489
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<210> 34490
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<220>
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<400> 34490
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<210> 34491
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<220>
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<400> 34491
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<210> 34492
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<220>
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<400> 34492
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<210> 34493
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<220>
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<400> 34493
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<210> 34494
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<400> 34494
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<210> 34495
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<220>
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<210> 34496
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<400> 34496
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<210> 34497
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<220>
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<210> 34498
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<220>
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<210> 34499
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<220>
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<210> 35115
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<210> 35121
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<210> 35123
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<210> 35124
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<210> 35126
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<210> 35158
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<210> 35159
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<210> 35168
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<210> 35172
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<210> 35173
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<210> 35174
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<210> 35199
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<210> 35202
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<210> 35203
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<210> 35205
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<210> 35207
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<210> 35208
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<400> 35210
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<210> 35214
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<210> 35218
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<220>
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<210> 35220
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<210> 35221
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<220>
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<210> 35236
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<210> 35238
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<220>
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<210> 35242
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<210> 35258
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<210> 35278
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<210> 35279
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<210> 35305
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<210> 35306
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<210> 35307
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<210> 35308
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<210> 35314
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<210> 35315
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<210> 35317
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<210> 35319
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<220>
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<210> 35320
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<210> 35321
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<220>
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<210> 35322
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<210> 35323
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<220>
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<400> 35323
ugccaaccga uucaucauc 19

<210> 35324
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<220>
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<400> 35324
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<220>
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<400> 35325
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<210> 35326
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<220>
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<400> 35326
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<210> 35327
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<220>
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<210> 35328
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<220>
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<210> 35329
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<220>
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<210> 35330
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<210> 35331
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<210> 35332
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<210> 35333
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<220>
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<210> 35334
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<220>
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<210> 35335
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<220>
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<210> 35336
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<210> 35337
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<210> 35338
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<210> 35339
<211> 21
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<220>
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<210> 35340
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<210> 35341
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<220>
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<210> 35558
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<210> 35559
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<220>
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<210> 35567
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<210> 35571
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<210> 35572
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<210> 35573
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<210> 35574
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<400> 35574
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<220>
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<210> 35578
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<210> 35579
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<210> 35580
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<210> 35581
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<210> 35614
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<220>
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<210> 37259
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<210> 37509
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<210> 37516
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<210> 37517
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<210> 37518
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<210> 37519
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<210> 37520
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<400> 37520
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<210> 37521
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<210> 37522
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<210> 37523
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<210> 37524
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<400> 37524
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<210> 37525
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<210> 37526
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<220>
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uagaaggguu uggcagcccu 20

<210> 37527
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<220>
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<210> 37528
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<210> 37529
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<210> 37530
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<210> 37531
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<210> 37532
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<210> 37533
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<210> 37534
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<210> 37535
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<210> 37536
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<400> 37536
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<210> 37537
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<210> 37538
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<210> 37540
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<210> 37541
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<210> 37542
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<210> 37543
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<220>
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<400> 37543
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<210> 37544
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<220>
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<400> 37544
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<210> 37545
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<220>
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<400> 37545
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<210> 37546
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<220>
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<400> 37549
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<210> 37550
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<210> 37551
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<210> 37552
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<210> 37561
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<210> 37562
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<220>
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<210> 37569
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<220>
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<210> 37570
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<220>
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<210> 37571
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<220>
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<400> 37580
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<400> 37581
cuguuuggcu gcugucc 17

<210> 37582
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guuuccacuu ucguucc 17

<210> 37583
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<210> 37584
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<210> 37585
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<210> 37586
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<220>
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<400> 37586
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<210> 37587
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<220>
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<400> 37587
gcuucuccgc ucugggc 17

<210> 37588
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<220>
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<400> 37588
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<210> 37589
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<400> 37589
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<210> 37590
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<220>
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<400> 37590
gaaagaggua acaaugc 17

<210> 37591
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<220>
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<400> 37591
auugcagacc aaacauc 17

<210> 37592
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<220>
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<400> 37592
uuaaaaaggc cgacauc 17

<210> 37593
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<220>
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<400> 37593
cgggagccaa agccauc 17

<210> 37594
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<220>
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<400> 37594
cagcaauucc cauuauc 17

<210> 37595
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<220>
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<400> 37595
gcgagcgggc cuuccuc 17

<210> 37596
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<220>
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<400> 37596
aggugggcgu gagcguc 17

<210> 37597
<211> 17
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<220>
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<400> 37597
uggcugcacc cgcuguc 17

<210> 37598
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<220>
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<400> 37598
aagggagcca cagaaag 17

<210> 37599
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<220>
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<400> 37599
aggagcuaac caauaag 17

<210> 37600
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<220>
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<400> 37600
guacacaaug gccccag 17

<210> 37601
<211> 17
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<220>
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<400> 37601
gcauuuuaga agcucag 17

<210> 37602
<211> 17
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<220>
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<400> 37602
guuggacccg cccagag 17

<210> 37603
<211> 17
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<220>
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<400> 37603
acucggagag aaaugag 17

<210> 37604
<211> 17
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<220>
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<400> 37604
ucauagcaac agaguag 17

<210> 37605
<211> 17
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<220>
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<400> 37605
uuugcuguua guuuuag 17

<210> 37606
<211> 17
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<220>
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<400> 37606
guguacugug gaggacg 17

<210> 37607
<211> 17
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<220>
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<400> 37607
uguggaggac guggacg 17

<210> 37608
<211> 17
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<220>
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<400> 37608
gacggggcgg cagcgcg 17

<210> 37609
<211> 17
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<220>
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<400> 37609
ggggcggggc gggggcg 17

<210> 37610
<211> 17
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<220>
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<400> 37610
caucuggggc ugaaagg 17

<210> 37611
<211> 17
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<220>
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<400> 37611
caauaagggg uggcagg 17

<210> 37612
<211> 17
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<220>
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<400> 37612
ggggcggcag cgcgagg 17

<210> 37613
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<220>
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<400> 37613
ugccuaaaug acugagg 17

<210> 37614
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<220>
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<400> 37614
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<210> 37615
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<220>
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<400> 37615
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<210> 37616
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<220>
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<400> 37616
ggaggacgug gacgggg 17

<210> 37617
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<220>
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<400> 37617
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<210> 37618
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<220>
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<400> 37618
gccauugugu acugugg 17

<210> 37619
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<220>
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<400> 37619
ggacucggag agaaaug 17

<210> 37620
<211> 17
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<220>
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<400> 37620
uucugccuaa augacug 17

<210> 37621
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<220>
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<400> 37621
ggggccauug uguacug 17

<210> 37622
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<220>
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<400> 37622
ucacagagag uaggcug 17

<210> 37623
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<220>
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<400> 37623
ggagccaaag ccaucug 17

<210> 37624
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<220>
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<400> 37624
gagcgggccu uccucug 17

<210> 37625
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<220>
<223> Synthetic oligonucleotide: CBLB-7338

<400> 37625
auuguuaccu cuuucug 17

<210> 37626
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<220>
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<400> 37626
gcacgucaga aaggaau 17

<210> 37627
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<220>
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<400> 37627
uaaaaguacc agauaau 17

<210> 37628
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<220>
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<400> 37628
caccugccac cccuuau 17

<210> 37629
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<220>
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<400> 37629
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<210> 37630
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<220>
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<400> 37630
agagaaacuc ggaaacu 17

<210> 37631
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<400> 37631
cuaugaaaca aaagacu 17

<210> 37632
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<220>
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<400> 37632
cagaaaggaa uuggacu 17

<210> 37633
<211> 17
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<220>
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<220>
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<210> 37719
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<220>
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<210> 37720
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<220>
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<400> 37721
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<210> 37722
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<400> 37722
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<210> 37723
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<210> 37724
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<210> 37731
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<220>
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<210> 37733
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<210> 37734
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<220>
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<400> 37734
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<210> 37735
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<220>
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<400> 37735
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<210> 37736
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<220>
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<400> 37736
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<210> 37737
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<220>
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<210> 37738
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<400> 37738
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<210> 37739
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<220>
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<210> 37740
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<220>
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<210> 37741
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<210> 37746
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<210> 37748
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<210> 37749
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<210> 37750
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<220>
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<210> 37751
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<220>
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<210> 37752
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<210> 37753
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<210> 37754
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aaguaaacug aaauaaa 17

<210> 37756
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<400> 37756
cuggacggcg gcggcaa 17

<210> 37757
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<400> 37757
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<210> 37758
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<400> 37758
gauaaaaugu uucucaa 17

<210> 37759
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<400> 37759
gcgccgaaag gcaagaa 17

<210> 37760
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<210> 37761
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gaaaggcaag aagggaa 17

<210> 37762
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uaaauucaag gcuguaa 17

<210> 37763
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<400> 37763
guccugugug ugccaca 17

<210> 37764
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<400> 37764
gcacagaaau aaugaca 17

<210> 37765
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<210> 37766
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<210> 37767
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<210> 37769
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<220>
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<210> 37770
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cagcucgcuc ccgaaga 17

<210> 37771
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<220>
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<210> 37772
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<210> 37773
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<210> 37774
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<220>
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<210> 37775
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<220>
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<400> 37775
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<210> 37776
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<210> 37777
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<220>
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<210> 37778
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<220>
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<210> 37779
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<220>
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<210> 37780
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<220>
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<210> 37781
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<210> 37782
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<210> 37783
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<210> 37784
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<220>
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<210> 37785
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<220>
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<210> 37786
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<220>
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<210> 37787
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<400> 37787
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<210> 37788
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<210> 37789
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<400> 37789
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<210> 37790
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<400> 37790
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<210> 37791
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<210> 37792
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<220>
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<210> 37793
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<210> 37794
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<210> 37795
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<210> 37796
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<210> 37797
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<220>
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<210> 37798
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<220>
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<210> 37799
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<210> 37800
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<220>
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<210> 37801
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<210> 37802
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<210> 37804
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<400> 37804
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<210> 37805
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<220>
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<400> 37805
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<210> 37806
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<210> 37807
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<210> 37808
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<210> 37809
<211> 17
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<210> 37811
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<400> 37811
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<210> 37812
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<220>
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<210> 37813
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<400> 37813
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<210> 37815
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<210> 37816
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<400> 37816
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<400> 37817
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<400> 37818
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<210> 37819
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<400> 37821
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<210> 37822
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<210> 37823
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<400> 37823
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<210> 37824
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<220>
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<400> 37824
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<210> 37825
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<400> 37825
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<210> 37826
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<220>
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<400> 37826
ugccuuugca accaguc 17

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<400> 37827
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<210> 37828
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<400> 37828
gugauaaagu gugauuc 17

<210> 37829
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<400> 37829
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<210> 37830
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<210> 37831
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aaaggcaaga agggaag 17

<210> 37834
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gggccaagga ggaagag 17

<210> 37837
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<400> 37837
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<210> 37838
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<210> 37839
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<210> 37840
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ggagccccgg cugggag 17

<210> 37841
<211> 17
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<400> 37841
gcugcgugcg uguggag 17

<210> 37842
<211> 17
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<220>
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auuguuggua gcaugag 17

<210> 37843
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aacgcuauca acuguag 17

<210> 37844
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<210> 37845
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<220>
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<400> 37845
cauuuuauca gguuacg 17

<210> 37846
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<210> 37847
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<400> 37847
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<210> 37848
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<400> 37848
gcugcugcgg cgucccg 17

<210> 37849
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<400> 37849
gaucccacuc ccagccg 17

<210> 37850
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<400> 37850
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<210> 37851
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<210> 37852
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<400> 37852
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<210> 37853
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<220>
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<400> 37853
cccgggguag ccaggcg 17

<210> 37854
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<220>
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<400> 37854
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<210> 37855
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<220>
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<400> 37855
cccucccgcc cgacucg 17

<210> 37856
<211> 17
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<220>
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<400> 37856
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<210> 37857
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<220>
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<400> 37857
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<210> 37858
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<220>
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<400> 37858
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<210> 37859
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<220>
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<400> 37859
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<210> 37860
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<220>
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<400> 37860
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<210> 37861
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<220>
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<210> 37862
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<220>
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<400> 37862
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<210> 37863
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<220>
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<400> 37863
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<210> 37864
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<400> 37864
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<210> 37865
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<220>
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<400> 37865
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<210> 37866
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<400> 37866
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<210> 37867
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<400> 37867
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<210> 37868
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<210> 37869
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<210> 37870
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<400> 37870
ucccgcccga cucgggg 17

<210> 37871
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<210> 37872
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<400> 37872
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<210> 37873
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<220>
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<400> 37873
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<210> 37874
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<400> 37874
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<210> 37875
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<220>
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<400> 37875
cgggccggca agaagug 17

<210> 37876
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<220>
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<400> 37876
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<210> 37877
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<400> 37877
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<210> 37878
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<400> 37878
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<210> 37879
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<210> 37894
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<400> 37894
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<210> 37895
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<210> 37900
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<210> 37902
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<210> 37904
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<210> 37906
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<210> 37907
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<210> 37928
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<210> 37929
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<210> 37966
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<210> 37971
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<210> 37972
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<210> 37973
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<210> 37977
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<220>
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<210> 37978
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<220>
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<210> 37980
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<210> 37982
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<220>
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<210> 37984
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<210> 37986
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<210> 37987
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<210> 37988
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<210> 37992
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<220>
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<210> 37993
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<210> 37994
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<210> 37995
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<210> 37996
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<210> 37997
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<210> 37998
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<210> 37999
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<210> 38001
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<210> 38007
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<210> 38013
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<210> 38014
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<210> 38015
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<210> 38016
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<210> 38017
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<210> 38019
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<210> 38021
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<210> 38024
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<210> 38027
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<210> 38028
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<210> 38029
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<210> 38032
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<210> 38035
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<210> 38037
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<210> 38052
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<220>
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<220>
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<210> 38054
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<210> 38055
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<210> 38056
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<210> 38067
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<210> 38072
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<210> 38074
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<210> 38083
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<220>
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<400> 38083
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<210> 38084
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<220>
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<400> 38084
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<210> 38085
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<400> 38085
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<210> 38086
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<220>
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<400> 38086
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<210> 38087
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<220>
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<210> 38088
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<220>
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<210> 38090
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<210> 38091
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<210> 38092
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<210> 38094
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<210> 38095
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<220>
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<210> 38096
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<220>
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<210> 38097
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<210> 38098
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<220>
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<210> 38099
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<220>
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<400> 38099
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<210> 38100
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<220>
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<210> 38101
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<220>
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<210> 38102
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<220>
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agagaguagg cuggggugac au 22

<210> 38103
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<220>
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<210> 38104
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<400> 38104
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<210> 38105
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<400> 38105
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<210> 38106
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<400> 38106
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<220>
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<400> 38107
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<400> 38108
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<210> 38109
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<400> 38109
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<220>
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<400> 38110
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<210> 38111
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<210> 38112
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<400> 38112
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<210> 38113
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<210> 38114
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<400> 38114
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<210> 38115
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<400> 38115
ugccaacuga aacuucccaa guuu 24

<210> 38116
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<220>
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<400> 38116
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<210> 38117
<211> 22
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<220>
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<400> 38117
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<210> 38118
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<212> RNA
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<220>
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<400> 38118
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<210> 38119
<211> 24
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<220>
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<400> 38119
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<210> 38120
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<400> 38120
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<210> 38121
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<210> 38153
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<210> 38154
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<210> 38164
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<210> 38170
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<210> 38171
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<400> 38204
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<400> 38218
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<210> 38219
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<210> 38220
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<400> 38222
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<210> 38223
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<400> 38223
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<210> 38224
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<210> 38225
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<210> 38226
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<210> 38227
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<400> 38232
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<210> 38233
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<210> 38234
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<210> 38236
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<210> 38237
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<210> 38238
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<210> 38240
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<220>
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<210> 38241
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<220>
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<210> 38262
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<210> 38270
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<210> 38339
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<210> 38342
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<210> 38352
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<210> 38356
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<210> 38358
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<220>
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<400> 38474
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<400> 38475
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<210> 38479
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<210> 38482
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<400> 38483
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<400> 38484
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<400> 38485
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<210> 38486
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<400> 38486
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<400> 38487
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<210> 38488
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<400> 38489
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agaaaugagg ggccuggacu cuc 23

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<210> 38506
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<210> 38507
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<210> 38508
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<400> 38509
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<400> 38510
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<210> 38511
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<210> 38516
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<210> 38517
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<210> 38518
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<220>
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<210> 38519
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<210> 38520
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<400> 38523
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<400> 38524
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<210> 38547
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<210> 38548
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<210> 38549
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<400> 38549
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<220>
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<400> 38556
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<220>
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<400> 38560
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<400> 38565
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<220>
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<220>
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<210> 38569
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<220>
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<400> 38569
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<220>
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<400> 38570
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<210> 38571
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<220>
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<400> 38571
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<210> 38572
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<400> 38572
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<210> 38573
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<400> 38573
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<400> 38574
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<210> 38575
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<400> 38575
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<210> 38576
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<400> 38576
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<210> 38577
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<400> 38577
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<210> 38578
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<400> 38578
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<400> 38579
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<210> 38582
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<400> 38582
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<210> 38583
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<400> 38583
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<210> 38584
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<220>
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<400> 38584
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<210> 38585
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<400> 38585
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<220>
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<400> 38586
aaaucucaca gagaguagg 19

<210> 38587
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<220>
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<400> 38587
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<220>
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<400> 38588
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<210> 38589
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<220>
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<210> 38590
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<220>
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<400> 38590
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<210> 38591
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<220>
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<400> 38591
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<210> 38592
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<220>
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<400> 38592
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<220>
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<210> 38594
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<400> 38594
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<210> 38595
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<210> 38596
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<210> 38598
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<220>
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<210> 38599
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<210> 38600
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<220>
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<210> 38601
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<220>
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<210> 38602
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<210> 38691
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<210> 38692
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<220>
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<210> 38704
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<400> 38709
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<210> 38713
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<210> 38719
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<210> 39055
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<210> 39077
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<210> 39105
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<400> 39113
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<210> 39114
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<210> 39118
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<210> 39131
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<210> 39154
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<210> 39155
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<210> 39161
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<210> 39162
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<210> 39165
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<210> 39166
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<210> 39167
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<210> 39168
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<400> 39168
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<210> 39169
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<400> 39169
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<210> 39170
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<220>
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<400> 39170
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<210> 39171
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<210> 39172
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<210> 39173
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<400> 39173
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<210> 39174
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<400> 39174
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<210> 39175
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<400> 39175
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<210> 39176
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<400> 39176
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<210> 39177
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<400> 39177
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<210> 39178
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<210> 39179
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<400> 39179
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<210> 39180
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<400> 39180
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<210> 39181
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<220>
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<400> 39181
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<210> 39182
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<400> 39182
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<210> 39183
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<220>
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<210> 39184
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<400> 39184
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<210> 39185
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<400> 39185
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<210> 39186
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<400> 39186
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<210> 39187
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<220>
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<400> 39187
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<210> 39188
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<210> 39189
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<400> 39189
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<210> 39190
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<210> 39191
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<220>
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<210> 39192
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<210> 39193
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<400> 39193
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<210> 39194
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<400> 39194
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<210> 39195
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<220>
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<400> 39195
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<210> 39196
<211> 24
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<220>
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<400> 39196
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<210> 39197
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<400> 39197
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<210> 39199
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<210> 39200
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<210> 39201
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<210> 39482
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<220>
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<210> 39483
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<210> 39484
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<210> 39488
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<400> 39507
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<210> 39508
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<400> 39508
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<210> 39509
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<400> 39509
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<210> 39512
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<210> 39518
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<210> 39519
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<400> 39519
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<210> 39524
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<220>
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<400> 39524
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<210> 39525
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<400> 39525
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<210> 39526
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<400> 39526
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<400> 39527
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<400> 39528
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<400> 39529
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<400> 39530
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<210> 39531
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<400> 39532
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<210> 39533
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<400> 39533
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<400> 39535
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<400> 39536
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<210> 39537
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<400> 39537
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<210> 39538
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<220>
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<400> 39538
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<210> 39539
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<220>
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<210> 39540
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<220>
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<400> 39540
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<210> 39541
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<220>
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<210> 39542
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<220>
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<210> 39543
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<220>
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<400> 39543
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<210> 39544
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<220>
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<400> 39544
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<210> 39545
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<220>
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<400> 39545
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<210> 39546
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<220>
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<400> 39546
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<210> 39547
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<220>
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<400> 39547
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<210> 39548
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<220>
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<400> 39548
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<210> 39549
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<400> 39549
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<210> 39550
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<400> 39550
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<210> 39551
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<220>
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<210> 39552
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<220>
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<400> 39552
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<210> 39553
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<210> 39554
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<210> 39555
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<400> 39555
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<210> 39556
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<400> 39556
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<210> 39557
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<400> 39557
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<210> 39558
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<400> 39558
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<210> 39559
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<220>
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<400> 39559
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<210> 39560
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<220>
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<210> 39561
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<210> 39574
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<210> 39580
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<210> 39581
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<210> 39582
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<210> 39583
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<220>
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<210> 39584
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<210> 39591
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<220>
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<210> 39592
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<210> 39593
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<220>
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<210> 39594
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<220>
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<210> 39595
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<210> 39596
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<220>
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<400> 39596
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<220>
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<400> 39597
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<220>
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<210> 39601
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<210> 39604
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<210> 39609
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<210> 39615
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<210> 39623
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<210> 39629
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<220>
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<210> 39645
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<210> 39647
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<210> 39648
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<220>
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<210> 39649
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<210> 39651
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<210> 39652
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<220>
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<210> 39653
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<210> 39654
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<220>
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<210> 39655
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<220>
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<400> 39655
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<210> 39656
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<220>
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<400> 39656
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<210> 39657
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<220>
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<400> 39657
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<210> 39658
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<400> 39658
uggacggcgg cggcaaaggc agcu 24

<210> 39659
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<400> 39659
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<400> 39660
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<210> 39661
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<210> 39662
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<220>
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<400> 39662
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<210> 39663
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<220>
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<400> 39663
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<210> 39664
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<220>
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<400> 39664
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<210> 39665
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<220>
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<400> 39665
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<210> 39666
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<220>
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<400> 39666
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<210> 39667
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<220>
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<400> 39667
cacacacagg acccaggcu 19

<210> 39668
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<400> 39668
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<210> 39669
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<400> 39669
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<210> 39670
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<400> 39670
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<210> 39671
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<400> 39671
guggcacaca caggacccag gcu 23

<210> 39672
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<220>
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<400> 39672
uguggcacac acaggaccca ggcu 24

<210> 39673
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<400> 39673
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<210> 39674
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<400> 39674
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<210> 39675
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<220>
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<400> 39675
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<210> 39676
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<400> 39676
guggaaagaa aguuccaaag u 21

<210> 39677
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<400> 39677
aguggaaaga aaguuccaaa gu 22

<210> 39678
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<220>
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<400> 39678
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<210> 39679
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<400> 39679
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<210> 39680
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<400> 39680
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<400> 39687
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<210> 39709
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<400> 39756
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<210> 39766
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<210> 39767
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<210> 39768
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<400> 39768
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<210> 39769
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<400> 39769
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<210> 39770
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<400> 39770
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<210> 39771
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<400> 39771
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<210> 39777
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<210> 39782
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<210> 39783
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<210> 39784
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<210> 39786
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<210> 39787
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<210> 39788
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<220>
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<220>
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<400> 39790
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<210> 39791
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<210> 39797
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<400> 39797
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<210> 39798
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<210> 39803
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<210> 39819
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<210> 39825
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<400> 39836
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<400> 39874
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<210> 39876
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<400> 39884
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<210> 39885
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<400> 39886
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<210> 39887
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<400> 39887
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<210> 39888
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<400> 39888
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<210> 39889
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<400> 39889
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<400> 39890
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<210> 39891
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<210> 39892
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<210> 39894
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<210> 39895
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<400> 39898
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<210> 39901
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<210> 39902
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<210> 39903
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<210> 39904
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<400> 39904
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<210> 39905
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<210> 39906
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<210> 39907
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<220>
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<400> 39907
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<210> 39908
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<220>
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<400> 39908
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<210> 39909
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<400> 39909
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<400> 39911
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<400> 39912
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<210> 39914
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<210> 39915
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<210> 39917
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<400> 39917
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<210> 39918
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<400> 39918
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<210> 39919
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<220>
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<400> 39920
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<210> 39938
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<210> 39939
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<210> 39940
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<210> 39942
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<210> 39952
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<210> 39987
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<210> 39995
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<210> 40006
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<210> 40007
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<210> 40008
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<400> 40008
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<210> 40009
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<210> 40013
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<210> 40014
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<210> 40015
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<210> 40016
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<220>
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<210> 40019
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<210> 40020
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<210> 40021
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<210> 40026
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<210> 40028
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<400> 40037
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<400> 40038
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<210> 40162
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gguaauuguu gcguuuccac gucu 24

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<210> 40169
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<210> 40174
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<210> 40175
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<210> 40182
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<210> 40183
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<210> 40196
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<210> 40202
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<210> 40203
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<210> 40207
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<210> 40209
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<210> 40211
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<210> 40227
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gaaggagcug accucaa 17

<210> 40256
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<210> 40257
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<210> 40259
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<210> 40262
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ggccuacccu agagaca 17

<210> 40263
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<210> 40266
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<210> 40271
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<210> 40273
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cccuagagac auggaga 17

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<210> 40281
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gcugcuccag ggcaguggcc 20

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ucagaggcca gauccccugc 20

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aggaggugag ugagggccug 20

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ugcccaggcc auggacugug 20

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gccagugcug gcuccccagu 20

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gccaggcacc ucgcccaggu 20

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cuucuccaug ucucuagggu 20

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cgaccuggaa agggacaca 19

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gcacauucgu auuuguuga 19

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ugcacauucg uauuuguuga 20

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<210> 40636
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gccguucacc aggcccgg 18

<210> 40638
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ggccguucac caggcccgg 19

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aggccguuca ccaggcccgg 20

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<210> 40641
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<210> 40642
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gaggugccug gcaauauu 18

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augaugucuu cuugacuuu 19

<210> 40648
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<220>
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gaugaugucu ucuugacuuu 20

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<400> 40649
gaugucuuuc acacaaca 18

<210> 40650
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ugaugucuuu cacacaaca 19

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gugaugucuu ucacacaaca 20

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<400> 40653
cacugggaca cugugaacc 19

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<220>
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ccacugggac acugugaacc 20

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<210> 40658
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<210> 40659
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<210> 40660
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<210> 40661
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<210> 40749
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<210> 40758
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<210> 40759
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<210> 40762
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aaauacgaau gugcagcggu gc 22

<210> 40763
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<210> 40764
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<220>
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agucaagaag acaucauc 18

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aagucaagaa gacaucauc 19

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<400> 40767
aaagucaaga agacaucauc 20

<210> 40768
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<210> 40769
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<210> 40771
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<400> 40773
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<210> 40774
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acaacgguuc cagccucagg g 21

<210> 40781
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<210> 40783
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<210> 40798
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<210> 40809
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<210> 40817
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<210> 40823
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<400> 40831
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<400> 40835
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<210> 40858
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<210> 40872
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<210> 40873
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<400> 40877
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<210> 40878
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<210> 40879
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<210> 40880
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<400> 40880
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<210> 40881
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<400> 40881
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<210> 40882
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<220>
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<210> 40883
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<210> 40885
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<210> 40886
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<210> 40891
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<210> 40892
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<220>
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<210> 40893
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<210> 40894
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<400> 40894
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<210> 40901
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<210> 40904
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<210> 41123
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<210> 41129
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<210> 41131
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<210> 41143
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<210> 41264
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<210> 41268
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<210> 41271
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<210> 41272
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<210> 41334
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<210> 41341
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<210> 41355
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<210> 41360
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<210> 41362
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<210> 41363
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<210> 41368
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<210> 41369
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<210> 41370
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<210> 41373
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<220>
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<210> 41375
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<210> 41376
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<220>
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<210> 41377
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<220>
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<210> 41378
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<210> 41380
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<210> 41381
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<210> 41382
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<210> 41383
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ggagcagcug cugcaggccu accc 24

<210> 41384
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<210> 41385
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<400> 41386
cagggaccug gccacugccc 20

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<210> 41389
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<210> 41390
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<220>
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ugccgcgcug cccaggcc 18

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<210> 41393
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<210> 41395
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<210> 41396
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<210> 41466
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<210> 41489
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<210> 41491
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<210> 41492
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<210> 41494
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<220>
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<210> 41496
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<210> 41497
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<210> 41498
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<210> 41499
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<210> 41502
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<210> 41504
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<210> 41511
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<210> 41512
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<210> 41513
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<210> 41517
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<210> 41518
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<210> 41553
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<210> 41604
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<210> 41609
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<210> 41617
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<210> 41618
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<210> 41619
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<210> 41629
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<210> 41632
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<210> 41636
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<210> 41637
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<210> 41638
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<400> 41638
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<210> 41639
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<210> 41742
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<210> 41743
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gaagcgcgcg gggcgccaua 20

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<210> 41903
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<210> 41904
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gucgaccgug uccgcgcgcc 20

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<210> 41907
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<210> 41912
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<210> 41919
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cucuggcucc caccgcgguc 20

<210> 41920
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<210> 41921
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cggaaucccc gcccacaccg 20

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<400> 41926
agcucagggc ugacaaagcg 20

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gcgcgcgggg cgccauaagg 20

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gugcaggcca cccuugccgg 20

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agcccugagc uccgcucggg 20

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gucagagcgg ccgcuuacug 20

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ucgaccgugu ccgcgcgccu 20

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ucaggucgcu gcugaggccu 20

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gcggauucug uaagugggcu 20

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gugcuggggu caugauggcu 20

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ggauccucgc ugcugcugcu 20

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uacgaaugug cagcggugcu 20

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acagugcgga uucuguaagu 20

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gcccugggcc cgaccgcggu 20

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uggggucaug auggcucggu 20

<210> 41957
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<400> 41957
aguggcuggg cuggcaa 17

<210> 41958
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cggugcugga aagacca 17

<210> 41959
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guggcugaau gacccca 17

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ggggcaggcg gcaggca 17

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gccuucaccu gcaggca 17

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<400> 41964
aaguggcugg gcuggca 17

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<400> 41965
ccccggcgug gagcuca 17

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gcggcaggca gggguca 17

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<400> 41967
cguggccugg ggauuca 17

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<400> 41968
gccgguccag ccgcaga 17

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<400> 41969
cgggcguggg gggccga 17

<210> 41970
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ggcucggugg gcagcga 17

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<400> 41971
cggugggagc cagagga 17

<210> 41972
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gagggcgccc gggcgga 17

<210> 41973
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ccuggggauu cagggga 17

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ggugcggggc gcgggga 17

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cgccucggag gcgggga 17

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gggcgcgggg aggggga 17

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cggugcuggg gucauga 17

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ccucagcagc gaccuga 17

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<400> 41979
agccacuugg uggcuga 17

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cggcaggucg gugcuga 17

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<400> 41981
acccugccug cagguga 17

<210> 41982
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<220>
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<400> 41982
gcgcgcgggg cgccaua 17

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ucauugccag ugcucua 17

<210> 41984
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cccgcuccuu agagcac 17

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cggcaggcag gggucac 17

<210> 41986
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gccuucugcg gcuggac 17

<210> 41987
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<220>
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caaggguggc cugcacc 17

<210> 41988
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<220>
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gggaggcggg agagacc 17

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augaccccag gggaccc 17

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aguggcugaa ugacccc 17

<210> 41991
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cgggggguca gagcccc 17

<210> 41992
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cccucccug aaucccc 17

<210> 41993
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<400> 41993
gcucucccag ggucccc 17

<210> 41994
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ggggccgagg ccagccc 17

<210> 41995
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uucggccccc cacgccc 17

<210> 41996
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gggcccgccg cccgccc 17

<210> 41997
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<220>
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<400> 41997
cccgccccgg cccgccc 17

<210> 41998
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<220>
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<400> 41998
cacgcccggg cccgccc 17

<210> 41999
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<400> 41999
ccgccucccc uccgccc 17

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cgccgaggag ggcgccc 17

<210> 42001
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<400> 42001
cgggccgggg cgggccc 17

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<220>
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<400> 42002
cugccugccg ccugccc 17

<210> 42003
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<220>
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<400> 42003
gcacccgcgc cccuccc 17

<210> 42004
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<400> 42004
ggcuucagag cucuccc 17

<210> 42005
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<220>
<223> Synthetic oligonucleotide: BID-2523

<400> 42005
ccgaggcagc gucuccc 17

<210> 42006
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<220>
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<400> 42006
gcccugagcu ccacgcc 17

<210> 42007
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<220>
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<400> 42007
cccgccuccc cuccgcc 17

<210> 42008
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<220>
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<400> 42008
gcgccgagga gggcgcc 17

<210> 42009
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<220>
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<400> 42009
aggucgcugc ugaggcc 17

<210> 42010
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<220>
<223> Synthetic oligonucleotide: BID-2449

<400> 42010
guggccugca cccggcc 17

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<210> 42115
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ccagaggagg ggaggcg 17

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agugcacccg cgccccuccc 20

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cccgcggguu uucuccucuc 20

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gcaggucggu gcugaggguc 20

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ugaagcccuc agccaccaag 20

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ggggcgccau aaggaggaag 20

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<220>
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caacaaauac gaaugugcag 20

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auggcucggu gggcagcgag 20

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gcccgcccug ggcccgaccg 20

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cggacgcgcc cgcgcccccg 20

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gugcacccgc gccccucccg 20

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gggcccugag cuccacgccg 20

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gcgcgggcgc guccgggccg 20

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caaagccuuc cccgccuccg 20

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<220>
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guuucccagc agcagcagcg 20

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ugauggcucg gugggcagcg 20

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cucaccaccc uccagccgcg 20

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gggccgaagg aggaagcgcg 20

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gccgaaggag gaagcgcgcg 20

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ggggaggggu gcggggcgcg 20

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gagccagagg aggggaggcg 20

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<220>
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gccugccgcc ugccccggcg 20

<210> 42355
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<220>
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cccgggcgcc cuccucggcg 20

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ggccggggcg ggcccgggcg 20

<210> 42357
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caggggaggg gugcggggcg 20

<210> 42358
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<220>
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gaaagaccac ggugugggcg 20

<210> 42359
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<220>
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ggauucaggg gaggggugcg 20

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<220>
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cgggcguggg gggccgaagg 20

<210> 42361
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<220>
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gagcuccacg ccggggcagg 20

<210> 42362
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<220>
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<400> 42362
accgcggugg gagccagagg 20

<210> 42363
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<220>
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accugccggc cgcgccgagg 20

<210> 42364
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<220>
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agccuucccc gccuccgagg 20

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gggagccaga ggaggggagg 20

<210> 42366
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gcgcccgggc ggaggggagg 20

<210> 42367
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<220>
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gggugcgggg cgcggggagg 20

<210> 42368
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<220>
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cgcccugggc ccgaccgcgg 20

<210> 42369
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agccagagga ggggaggcgg 20

<210> 42370
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<220>
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<400> 42370
cgaggagggc gcccgggcgg 20

<210> 42371
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gucgggccca gggcgggcgg 20

<210> 42372
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<220>
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<400> 42372
cuggggucau gauggcucgg 20

<210> 42373
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<220>
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caccgcgguc gggcccaggg 20

<210> 42374
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<220>
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<400> 42374
gcgcccccgc ggcuggaggg 20

<210> 42375
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<220>
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cgccgaggag ggcgcccggg 20

<210> 42376
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gcggucgggc ccagggcggg 20

<210> 42378
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guggccuggg gauucagggg 20

<210> 42379
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ggugggagcc agaggagggg 20

<210> 42380
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<220>
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agggcgcccg ggcggagggg 20

<210> 42381
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<220>
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cgggccgggg cgggccgggg 20

<210> 42382
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<210> 42383
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<220>
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ugcggggcgc ggggaggggg 20

<210> 42384
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<220>
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uguccucucc acguggccug 20

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acaacaagca cagggac 17

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gcagcgcagu gagaacc 17

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uagguccuca cggaacc 17

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ugccgggagg acgaccc 17

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cccacuuucc aaacccc 17

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ggggacugca gggcccc 17

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aaacauucag aaucccc 17

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gccggcgcgg gcucccc 17

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ggggcccugc agucccc 17

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ggcacacauu caggccc 17

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ucccggcagu gccuccc 17

<210> 42483
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cgccggcgcg ggcuccc 17

<210> 42484
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aaaggcaggg aucuccc 17

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gguaagggug gaaagcc 17

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cuguuccaga aacagcc 17

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caggcagagg cuuggcc 17

<210> 42488
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<400> 42488
uccagggagg cacugcc 17

<210> 42489
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ggccaggguc guccucc 17

<210> 42490
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gagguagaca gagcucc 17

<210> 42491
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gguguggaua aggcucc 17

<210> 42492
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gaugggggga gcucucc 17

<210> 42493
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cugaaugugu gccgucc 17

<210> 42495
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ggcuugcacc cccuucc 17

<210> 42496
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<210> 42497
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gcgcggggcu guggagc 17

<210> 42498
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gaccagauuc ccugagc 17

<210> 42499
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acuuacucca gcgccgc 17

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cgcacacccu gggccgc 17

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gcuccacagc cccgcgc 17

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<400> 42502
acccggggag cccgcgc 17

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<400> 42503
cagccccgcg ccggcgc 17

<210> 42504
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ggagcccgcg ccggcgc 17

<210> 42505
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aauuauccca gcggcgc 17

<210> 42506
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ggcugggguu uaaaggc 17

<210> 42507
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<400> 42507
cucuggaggu cucaggc 17

<210> 42508
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agaggggcag aaggggc 17

<210> 42509
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agggacuggu gaggggc 17

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gggggggggg ucuccaccuc 20

<210> 42736
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gauaauuccu aaugauucuc 20

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accucaacuc cugaugccag 20

<210> 42756
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<400> 42756
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<210> 42758
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cgcugcacau ucguauuugu uga 23

<210> 42858
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<210> 42859
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<210> 42860
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<210> 42861
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<220>
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<210> 42862
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uggcugaggg cuucagagcu cucc 24

<210> 42863
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<210> 42868
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<210> 42869
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<210> 42871
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<210> 42872
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<210> 42873
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<400> 42873
gggcggggau uccgauccgc cggc 24

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<210> 42875
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gcgcguaccc cgggaggggc 20

<210> 42877
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<210> 42878
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<210> 42879
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<400> 42879
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<210> 42880
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<210> 42882
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<210> 42883
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<210> 42884
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<400> 42884
accgcugcac auucguauuu g 21

<210> 42885
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<210> 42893
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<210> 42894
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<210> 42895
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<210> 42913
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<210> 43009
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<210> 43010
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caacaguuuc ccagcagcag cagc 24

<210> 43012
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<210> 43013
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<210> 43014
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<210> 43020
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<210> 43022
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<210> 43027
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<210> 43028
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<210> 43033
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<210> 43034
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<210> 43036
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ccggccuuca ccugcagg 18

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accggccuuc accugcagg 19

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<210> 43039
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<210> 43040
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<210> 43042
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<210> 43044
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<210> 43048
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<210> 43049
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<210> 43051
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<210> 43052
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<210> 43062
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<210> 43066
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<400> 43066
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<210> 43067
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<210> 43069
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<210> 43070
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<400> 43070
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<210> 43071
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<220>
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<400> 43071
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<210> 43072
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<210> 43073
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<220>
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<400> 43073
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<210> 43074
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<400> 43074
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<210> 43075
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<400> 43075
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<210> 43076
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<400> 43076
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<210> 43077
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<210> 43081
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<210> 43082
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<210> 43083
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<210> 43086
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<220>
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<210> 43087
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ccggcuggag gagcacagu 19

<210> 43088
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gccggcugga ggagcacagu 20

<210> 43089
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<220>
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<400> 43089
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<210> 43090
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<220>
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<220>
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<210> 43092
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<220>
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<210> 43093
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<220>
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<220>
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<400> 43095
gcccggcccc ucgcugccca 20

<210> 43096
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<210> 43097
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<210> 43099
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<400> 43100
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<210> 43101
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<210> 43102
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<210> 43103
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aacaguuucc cagcagcagc a 21

<210> 43104
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<400> 43104
caacaguuuc ccagcagcag ca 22

<210> 43105
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ucaacaguuu cccagcagca gca 23

<210> 43106
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cucaacaguu ucccagcagc agca 24

<210> 43107
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<400> 43107
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<210> 43108
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<400> 43108
auugccagug cucuaagga 19

<210> 43109
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<210> 43110
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<210> 43111
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<220>
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<400> 43111
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<210> 43112
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<220>
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caucauugcc agugcucuaa gga 23

<210> 43113
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<210> 43114
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<220>
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<400> 43114
ggagggcgcc cgggcgga 18

<210> 43115
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<220>
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<400> 43115
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<210> 43116
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<220>
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<400> 43116
gaggagggcg cccgggcgga 20

<210> 43117
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<220>
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<400> 43117
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<210> 43118
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<400> 43118
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<210> 43119
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<220>
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<400> 43119
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<210> 43120
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<220>
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<400> 43120
cgccgaggag ggcgcccggg cgga 24

<210> 43121
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<400> 43121
aucccc aggc cacgugga 18

<210> 43122
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<400> 43122
aaucccc agg ccacgugga 19

<210> 43123
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<220>
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<400> 43123
gaauccccag gccacgugga 20

<210> 43124
<211> 21
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<220>
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<400> 43124
ugaaucccca ggccacgugg a 21

<210> 43125
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<220>
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<400> 43125
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<210> 43126
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<220>
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<210> 43127
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<220>
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<210> 43128
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<210> 43182
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<210> 43189
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<210> 43190
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<210> 43196
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<210> 43197
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<210> 43204
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<210> 43211
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<210> 43219
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<210> 43224
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<210> 43233
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<210> 43236
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<210> 43237
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<210> 43238
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<210> 43239
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<210> 43240
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<400> 43241
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<210> 43243
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<210> 43245
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<210> 43246
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<210> 43247
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<210> 43249
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<210> 43250
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<210> 43279
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<210> 43280
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<210> 43289
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<210> 43316
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<210> 43347
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<210> 43355
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<210> 43372
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<210> 43528
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<210> 43529
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<210> 43584
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<210> 43585
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ccagccgcgg gggcgcgggc gcgu 24

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<210> 43597
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<210> 43598
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<210> 43604
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<210> 43605
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<210> 43606
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<210> 43607
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<210> 43608
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<210> 43613
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<400> 43613
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<210> 43614
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<400> 43614
aguggcugaa ugacccca 18

<210> 43615
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<210> 43681
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<210> 43682
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<210> 43683
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<210> 43684
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<210> 43686
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<210> 43687
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<210> 43689
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<400> 43691
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<210> 43697
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<210> 43702
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<400> 43702
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<210> 43703
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<220>
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<400> 43703
gagccccagg ccucagcagc gac 23

<210> 43704
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<220>
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<210> 43705
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<210> 43706
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<210> 43708
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<210> 43709
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<400> 43709
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<210> 43710
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gcgcggucag agcggccgcu uac 23

<210> 43711
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<400> 43711
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<210> 43712
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<400> 43712
gaaugacccc aggggacc 18

<210> 43713
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<220>
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<400> 43713
ugaaugaccc caggggacc 19

<210> 43714
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<220>
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cugaaugacc ccaggggacc 20

<210> 43715
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<210> 43716
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<220>
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<400> 43716
ggcugaauga ccccagggga cc 22

<210> 43717
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<220>
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uggcugaaug accccagggg acc 23

<210> 43718
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<220>
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<400> 43718
guggcugaau gaccccaggg gacc 24

<210> 43719
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<220>
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<400> 43719
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<210> 43720
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<220>
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<400> 43720
cccggagagg agaaaaccc 19

<210> 43721
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<220>
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<400> 43721
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<210> 43722
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<220>
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<400> 43722
gccccggaga ggagaaaacc c 21

<210> 43723
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<220>
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<400> 43723
agccccggag aggagaaaac cc 22

<210> 43724
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<220>
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<400> 43724
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<210> 43725
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ccagccccgg agaggagaaa accc 24

<210> 43726
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<210> 43727
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<220>
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gaaugacccc aggggaccc 19

<210> 43728
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ugaaugaccc caggggaccc 20

<210> 43729
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cugaaugacc ccaggggacc c 21

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<210> 43731
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<210> 43732
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<210> 43733
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<220>
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<210> 43734
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<400> 43734
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<210> 43735
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<220>
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<400> 43735
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<210> 43736
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<400> 43736
uguugagugg cugaaugacc c 21

<210> 43737
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<210> 43746
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<210> 43761
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<210> 43769
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<220>
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<210> 43773
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<210> 43774
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<210> 43775
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<210> 43780
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<210> 43786
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<220>
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<210> 43793
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<210> 43795
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<210> 43796
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<220>
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<210> 43801
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<210> 43802
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ccugggcccg accgcggugg gagc 24

<210> 43803
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<220>
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<400> 43803
cucccgccuc cccuccgc 18

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<220>
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<400> 43804
ucucccgccu ccccuccgc 19

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<220>
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<400> 43805
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<210> 43806
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<220>
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<400> 43806
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<210> 43807
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<400> 43807
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<210> 43808
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ggucucuccc gccucccccuc cgc 23

<210> 43809
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<210> 43810
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<210> 43811
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<210> 43812
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<220>
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<220>
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<400> 43813
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<210> 43814
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<400> 43814
gggggggccga aggaggaagc gc 22

<210> 43815
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<210> 43816
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<400> 43816
gugggggggcc gaaggaggaa gcgc 24

<210> 43817
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<400> 43817
ucgaccgugu ccgcgcgc 18

<210> 43818
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<220>
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<400> 43818
gucgaccgug uccgcgcgc 19

<210> 43819
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<220>
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<400> 43819
agucgaccgu guccgcgcgc 20

<210> 43820
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<400> 43820
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<210> 43821
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<220>
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<400> 43821
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<210> 43822
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<220>
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<400> 43822
gguagucgac cguguccgcg cgc 23

<210> 43823
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<400> 43823
ggguagucga ccguguccgc gcgc 24

<210> 43824
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<220>
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<400> 43824
gggaggggug cggggcgc 18

<210> 43825
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<220>
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<400> 43825
ggggaggggu gcggggcgc 19

<210> 43826
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<220>
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<400> 43826
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<210> 43827
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<220>
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<400> 43827
caggggaggg gugcggggcg c 21

<210> 43828
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<400> 43828
ucaggggagg ggugcggggc gc 22

<210> 43829
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<400> 43829
uucaggggag gggugcgggg cgc 23

<210> 43830
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<220>
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<400> 43830
auucagggga ggggugcggg gcgc 24

<210> 43831
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<220>
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<400> 43831
cggguccgcc ucggaggc 18

<210> 43832
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<220>
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<400> 43832
ucggguccgc cucggaggc 19

<210> 43833
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<220>
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<400> 43833
gucggguccg ccucggaggc 20

<210> 43834
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<220>
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<400> 43834
ggucgggucc gccucggagg c 21

<210> 43835
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<220>
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<400> 43835
gggucggguc cgccucggag gc 22

<210> 43836
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: BID-4405

<400> 43836
agggucgggu ccgccucgga ggc 23

<210> 43837
<211> 24
<212> RNA

<213> Artificial Sequence

<220>
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<400> 43837
gagggucggg uccgccucgg aggc 24

<210> 43838
<211> 18
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<220>
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<400> 43838
agccagagga ggggaggc 18

<210> 43839
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<220>
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<400> 43839
gagccagagg aggggaggc 19

<210> 43840
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<220>
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<400> 43840
ggagccagag gaggggaggc 20

<210> 43841
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<220>
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<400> 43841
gggagccaga ggaggggagg c 21

<210> 43842
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<220>
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<400> 43842
ugggagccag aggaggggag gc 22

<210> 43843
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<220>
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<400> 43843
gugggagcca gaggagggga ggc 23

<210> 43844
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<220>
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<400> 43844
ggugggagcc agaggagggg aggc 24

<210> 43845
<211> 18
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<220>
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<400> 43845
ccugccgccu gccccggc 18

<210> 43846
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<220>
<223> Synthetic oligonucleotide: BID-4414

<400> 43846
gccugccgcc ugccccggc 19

<210> 43847
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<220>
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<400> 43847
ugccugccgc cugccccggc 20

<210> 43848
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<220>
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<400> 43848
cugccugccg ccugccccgg c 21

<210> 43849
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<400> 43849
ccugccugcc gccugccccg gc 22

<210> 43850
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<220>
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<400> 43850
cccugccugc cgccugcccc ggc 23

<210> 43851
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<220>
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<400> 43851
ccccugccug ccgccugccc cggc 24

<210> 43852
<211> 18
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<220>
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<400> 43852
gcgaggggcc gggccggc 18

<210> 43853
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<220>
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<400> 43853
agcgaggggc cgggccggc 19

<210> 43854
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<220>
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<400> 43854
cagcgagggg ccgggccggc 20

<210> 43855
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<220>
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<400> 43855
gcagcgaggg gccgggccgg c 21

<210> 43856
<211> 22
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<220>
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<400> 43856
ggcagcgagg ggccgggccg gc 22

<210> 43857
<211> 23
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<220>
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<400> 43857
gggcagcgag gggccgggcc ggc 23

<210> 43858
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<220>
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<400> 43858
ugggcagcga ggggccgggc cggc 24

<210> 43859
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<210> 43950
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<210> 43957
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<210> 43958
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<210> 43961
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<210> 43962
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<210> 43963
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<210> 43964
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<210> 43972
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<210> 43973
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<210> 43975
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<210> 43978
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<210> 43979
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<210> 44014
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<210> 44047
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<210> 44048
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<210> 44054
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<210> 44062
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<210> 44063
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<220>
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<210> 44067
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caggggaggg gugcggggcg cg 22

<210> 44068
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ucaggggagg ggugcggggc gcg 23

<210> 44069
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uucaggggag gggugcgggg cgcg 24

<210> 44070
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<220>
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<400> 44070
ggguccgccu cggaggcg 18

<210> 44071
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<210> 44074
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<210> 44076
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<210> 44077
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<400> 44077
cugccgccug ccccggcg 18

<210> 44078
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<220>
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<220>
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<400> 44079
gccugccgcc ugccccggcg 20

<210> 44080
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<220>
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ugccugccgc cugccccggc g 21

<210> 44081
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<220>
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<210> 44082
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<220>
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<210> 44083
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<220>
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<400> 44083
cccugccugc cgccugcccc ggcg 24

<210> 44084
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<220>
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<400> 44084
ccggggcggg cccgggcg 18

<210> 44085
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<220>
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gccggggcgg gcccgggcg 19

<210> 44086
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<220>
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ggccggggcg ggcccgggcg 20

<210> 44087
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<220>
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<400> 44087
gggccggggc gggcccgggc g 21

<210> 44088
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<220>
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<400> 44088
cgggccgggg cgggcccggg cg 22

<210> 44089
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<220>
<223> Synthetic oligonucleotide: BID-4607

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gcgggccggg gcgggcccgg gcg 23

<210> 44090
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<220>
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<400> 44090
ggcgggccgg ggcgggcccg ggcg 24

<210> 44091
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<220>
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<400> 44091
ggggaggggu gcggggcg 18

<210> 44092
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<220>
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<210> 44093
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caggggaggg gugcggggcg 20

<210> 44094
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<400> 44094
ucaggggagg ggugcggggc g 21

<210> 44095
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<400> 44095
uucaggggag gggugcgggg cg 22

<210> 44096
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<220>
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<400> 44096
auucagggga ggggugcggg gcg 23

<210> 44097
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<400> 44097
gauucagggg aggggugcgg ggcg 24

<210> 44098
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<220>
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<400> 44098
uggggucaug auggcucg 18

<210> 44099
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<220>
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<400> 44099
cuggggucau gauggcucg 19

<210> 44100
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<220>
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<400> 44100
gcugggguca ugauggcucg 20

<210> 44101
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<220>
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<400> 44101
ugcugggguc augauggcuc g 21

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gcgcgcgggg cgccauaagg 20

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<210> 44116
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<210> 44117
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<210> 44118
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<210> 44119
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<210> 44123
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<210> 44124
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<210> 44127
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<210> 44130
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<210> 44131
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<210> 44132
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<210> 44133
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ggagccagag gaggggagg 19

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<210> 44136
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<210> 44137
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<210> 44138
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<210> 44151
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<210> 44152
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<210> 44153
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<210> 44160
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<210> 44161
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<210> 44165
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<210> 44166
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<210> 44167
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<210> 44170
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<210> 44172
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cuggggggcug ggccuucugc gg 22

<210> 44173
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gcuggggggcu gggccuucug cgg 23

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ggcuggggggc ugggccuucu gcgg 24

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<210> 44184
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<220>
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<210> 44185
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<220>
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<400> 44185
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<210> 44186
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<220>
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<400> 44186
cacguggccu ggggauucag gg 22

<210> 44187
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<220>
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<400> 44187
ccacguggcc uggggauuca ggg 23

<210> 44188
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uccacguggc cuggggauuc aggg 24

<210> 44189
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<220>
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<400> 44191
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<400> 44192
ggcgggccgg ggcgggccgg g 21

<210> 44193
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gggcgggccg gggcgggccg gg 22

<210> 44194
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<220>
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<400> 44194
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<210> 44195
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<220>
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<210> 44197
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<220>
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<400> 44197
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<210> 44198
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<210> 44199
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<210> 44200
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<210> 44201
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<220>
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<210> 44202
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<220>
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<400> 44202
caggggaggg gugcggggcg cggg 24

<210> 44203
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<220>
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<400> 44203
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<210> 44204
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<400> 44204
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<210> 44205
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<400> 44205
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<210> 44206
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<210> 44207
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<220>
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<210> 44208
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<400> 44208
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<210> 44209
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<210> 44210
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<400> 44210
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<210> 44211
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<210> 44212
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gauggcucgg ugggcagcga gggg 24

<210> 44213
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<400> 44213
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<210> 44214
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<210> 44215
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<210> 44216
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<210> 44217
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<400> 44217
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<210> 44218
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<400> 44218
ggggugcggg gcgcggggag ggg 23

<210> 44219
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<220>
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<400> 44219
aggggugcgg ggcgcgggga gggg 24

<210> 44220
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<220>
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<400> 44220
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<210> 44221
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<220>
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<210> 44222
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<400> 44222
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<210> 44223
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<210> 44225
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<210> 44226
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<400> 44226
gcggggcgcg gggaggggga gggg 24

<210> 44227
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<210> 44230
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<400> 44230
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<210> 44231
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<210> 44232
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<210> 44233
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aggggagggg ugcggggcgc gggg 24

<210> 44234
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<210> 44236
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<210> 44237
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<210> 44238
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<210> 44239
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<210> 44240
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<210> 44241
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<400> 44241
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<210> 44242
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<210> 44243
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<220>
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<210> 44244
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<220>
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<210> 44245
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<220>
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<210> 44246
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<400> 44246
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<210> 44247
<211> 24
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<220>
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<400> 44247
cggggcgggc ccgggcgugg gggg 24

<210> 44248
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<220>
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<400> 44248
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<210> 44249
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<400> 44249
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<210> 44252
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<220>
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<400> 44252
gauucuguaa gugggcuggg gg 22

<210> 44253
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<400> 44253
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<210> 44254
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<220>
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<400> 44254
cggauucugu aagugggcug gggg 24

<210> 44255
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<220>
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<400> 44255
gcggauucug uaaguggg 18

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<210> 44257
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<220>
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<400> 44257
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<210> 44258
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<220>
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<400> 44258
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<210> 44259
<211> 22
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<400> 44259
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<210> 44260
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<220>
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<400> 44260
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<210> 44261
<211> 24
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<400> 44261
cacagugcgg auucuguaag uggg 24

<210> 44262
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<400> 44262
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<220>
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<210> 44265
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<210> 44266
<211> 22
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<210> 44267
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<220>
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<210> 44268
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<210> 44269
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<400> 44269
aggggccggg ccggcugg 18

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<400> 44270
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<210> 44271
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<220>
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<400> 44271
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<220>
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<210> 44273
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<220>
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<210> 44274
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<210> 44275
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<220>
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<210> 44282
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<210> 44283
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<220>
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<210> 44287
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<210> 44288
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<220>
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<400> 44288
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<210> 44289
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<220>
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<400> 44289
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<210> 44290
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<220>
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<210> 44291
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<210> 44292
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<210> 44293
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<400> 44293
ugcggauccu cgcugcugcu g 21

<210> 44294
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<220>
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<400> 44294
gugcggaucc ucgcugcugc ug 22

<210> 44295
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<220>
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ugugcggauc cucgcugcug cug 23

<210> 44296
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<220>
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<400> 44296
augugcggau ccucgcugcu gcug 24

<210> 44297
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<210> 44301
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<220>
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<400> 44301
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<210> 44302
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<220>
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<210> 44303
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<220>
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<400> 44303
cgggccgggg cgggcccggg cgug 24

<210> 44304
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<220>
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<400> 44304
uacgaaugug cagcggug 18

<210> 44305
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<220>
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<400> 44305
auacgaaugu gcagcggug 19

<210> 44306
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<220>
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<400> 44306
aauacgaaug ugcagcggug 20

<210> 44307
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<220>
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<400> 44307
aaauacgaau gugcagcggu g 21

<210> 44308
<211> 22
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<220>
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<400> 44308
caaauacgaa ugugcagcgg ug 22

<210> 44309
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<220>
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<400> 44309
acaaauacga augugcagcg gug 23

<210> 44310
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<220>
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<400> 44310
aacaaauacg aaugugcagc ggug 24

<210> 44311
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<400> 44311
gcggccggca ggucggug 18

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cgcggccggc aggucggug 19

<210> 44313
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<210> 44314
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<400> 44314
ggcgcggccg gcaggucggu g 21

<210> 44315
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<220>
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<400> 44315
cggcgcggcc ggcaggucgg ug 22

<210> 44316
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<220>
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<400> 44316
ucggcgcggc cggcaggucg gug 23

<210> 44317
<211> 24
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<220>
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<400> 44317
cucggcgcgg ccggcagguc ggug 24

<210> 44318
<211> 18
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<400> 44318
ggauucaggg gaggggug 18

<210> 44319
<211> 19
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<220>
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<400> 44319
gggauucagg ggaggggug 19

<210> 44320
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<400> 44320
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<210> 44321
<211> 21
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<220>
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<400> 44321
uggggauuca ggggaggggu g 21

<210> 44322
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<220>
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<400> 44322
cuggggauuc aggggagggg ug 22

<210> 44323
<211> 23
<212> RNA
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<220>
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<400> 44323
ccuggggauu caggggaggg gug 23

<210> 44324
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<220>
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<400> 44324
gccuggggau ucaggggagg ggug 24

<210> 44325
<211> 18
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<220>
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<400> 44325
aagcgcgcgg ggcgccau 18

<210> 44326
<211> 19
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<220>
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<400> 44326
gaagcgcgcg gggcgccau 19

<210> 44327
<211> 20
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<220>
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<400> 44327
ggaagcgcgc ggggcgccau 20

<210> 44328
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<220>
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<400> 44328
aggaagcgcg cggggcgcca u 21

<210> 44329
<211> 22
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<220>
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<400> 44329
gaggaagcgc gcggggcgcc au 22

<210> 44330
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<220>
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<400> 44330
ggaggaagcg cgcggggcgc cau 23

<210> 44331
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<220>
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<400> 44331
aggaggaagc gcgcggggcg ccau 24

<210> 44332
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<220>
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<400> 44332
aggccucagc agcgaccu 18

<210> 44333
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<220>
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<400> 44333
caggccucag cagcgaccu 19

<210> 44334
<211> 20
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<220>
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<400> 44334
ccaggccuca gcagcgaccu 20

<210> 44335
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<400> 44335
cccaggccuc agcagcgacc u 21

<210> 44336
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<210> 44337
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<220>
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<400> 44337
gccccaggcc ucagcagcga ccu 23

<210> 44338
<211> 24
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<220>
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<400> 44338
agccccaggc cucagcagcg accu 24

<210> 44339
<211> 18
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<220>
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<400> 44339
augaccccag gggacccu 18

<210> 44340
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<220>
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<400> 44340
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<210> 44341
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<400> 44341
gaaugacccc aggggacccu 20

<210> 44342
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<400> 44342
ugaaugaccc caggggaccc u 21

<210> 44343
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<220>
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<400> 44343
cugaaugacc ccaggggacc cu 22

<210> 44344
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<210> 44392
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<210> 44394
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<210> 44448
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<400> 44448
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<210> 44449
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<210> 44450
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<210> 44452
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<210> 44454
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<210> 44455
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<210> 44457
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<210> 44458
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gauucugaau guuuccca 18

<210> 44459
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<210> 44464
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<210> 44505
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<210> 44562
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<210> 44565
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<210> 44569
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<210> 44570
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<400> 44570
ugagaaggug gaagagcu 18

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<210> 44574
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<210> 44575
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<210> 44581
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<210> 44611
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<210> 44612
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<210> 44639
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<210> 44652
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<210> 44653
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<400> 44672
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<210> 44680
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<210> 44683
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<220>
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<210> 44690
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<210> 44691
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<400> 44692
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<210> 44693
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<210> 44694
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<210> 44695
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<210> 44699
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<210> 44701
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<210> 44703
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<210> 44704
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<210> 44705
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<210> 44706
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<210> 44707
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<210> 44708
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<210> 44793
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<210> 44807
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<220>
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<210> 44814
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<220>
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<210> 44815
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<220>
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<210> 44816
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<210> 44819
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<210> 44820
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<220>
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<220>
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<210> 44824
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<220>
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<400> 44824
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<210> 44828
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gcagaagggg cagggacgca cacc 24

<210> 44829
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<400> 44829
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<210> 44841
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<210> 44842
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<210> 44843
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<210> 44871
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<210> 44884
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<210> 44898
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<210> 44919
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<210> 44920
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<210> 44921
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<220>
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ggggauucug aauguuucc 19

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<210> 44924
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<210> 44925
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<220>
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<210> 44927
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<210> 44931
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<220>
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<210> 44932
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<220>
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<210> 44933
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<220>
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<400> 44933
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<400> 44934
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<210> 44935
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<220>
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<210> 44936
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<220>
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<210> 44937
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<220>
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<400> 44937
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<210> 44938
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<220>
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<400> 44938
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<210> 44939
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<220>
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<210> 44940
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<220>
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<400> 44940
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<210> 44941
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<220>
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<400> 44941
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<210> 44942
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<220>
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<210> 44943
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<220>
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<210> 44944
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<210> 44945
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<220>
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<400> 44945
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<210> 44946
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<400> 44946
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<210> 44947
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<220>
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<400> 44947
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<210> 44948
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<220>
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<210> 44949
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<220>
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<400> 44951
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<210> 44952
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<220>
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<210> 44953
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<220>
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<400> 44953
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<210> 44969
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<210> 44984
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<210> 45024
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aagccuccug uggguggag 19

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<210> 45048
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<210> 45049
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<210> 45052
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<210> 45053
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<210> 45054
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<210> 45055
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<210> 45057
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<210> 45059
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<210> 45060
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<210> 45061
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<210> 45062
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<220>
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<210> 45063
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<220>
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<210> 45064
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<210> 45065
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<210> 45066
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<400> 45066
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<210> 45067
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<220>
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<400> 45067
aacagucgcg uaagggguaa gg 22

<210> 45068
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aaacagucgc guaaggggua agg 23

<210> 45069
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<210> 45070
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<400> 45070
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<210> 45071
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<210> 45072
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<210> 45073
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<400> 45073
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<210> 45074
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<210> 45075
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<210> 45076
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<210> 45082
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<210> 45084
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gccugagacc uccagagg 18

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<210> 45086
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<210> 45088
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<210> 45091
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<210> 45092
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<210> 45093
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<210> 45094
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<210> 45095
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<210> 45096
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<210> 45103
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<210> 45104
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<210> 45105
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<210> 45110
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<210> 45114
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<210> 45116
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<210> 45117
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<210> 45118
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<210> 45145
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<210> 45158
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<210> 45159
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<210> 45160
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<220>
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<400> 45160
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<210> 45161
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aacaagcaca gggacuggug 20

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<210> 45165
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<400> 45165
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<210> 45166
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<400> 45166
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<210> 45167
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<400> 45167
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<210> 45168
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<400> 45168
ugugggugga gauggaau 18

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cugugggugg agauggaau 19

<210> 45170
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<210> 45171
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<400> 45171
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<210> 45172
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<400> 45172
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<220>
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<400> 45173
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<220>
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<400> 45175
uguuucccag agaaucau 18

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<400> 45176
auguuuccca gagaaucau 19

<210> 45177
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<220>
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<400> 45177
aauguuuccc agagaaucau 20

<210> 45178
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<210> 45179
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<210> 45180
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<400> 45180
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<210> 45181
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<400> 45181
ucugaauguu ucccagagaa ucau 24

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<220>
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<400> 45182
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<210> 45183
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<220>
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<210> 45184
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<220>
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<210> 45185
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<210> 45186
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<210> 45187
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<400> 45187
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<210> 45188
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gcuccaggaa gggggugcaa gccu 24

<210> 45189
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<400> 45191
augcucccug ugcccguccu 20

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<210> 45194
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<220>
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<210> 45195
<211> 24
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<220>
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<210> 45196
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<220>
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<210> 45197
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<210> 45198
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<220>
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<210> 45200
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<400> 45200
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<210> 45201
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<210> 45202
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<210> 45204
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<210> 45208
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<210> 45209
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<210> 45210
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<400> 45211
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<210> 45212
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<220>
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<210> 45213
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<210> 45214
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<220>
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<210> 45215
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<220>
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<210> 45216
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<210> 45217
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<210> 45221
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<220>
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<210> 45222
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<210> 45223
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<210> 45224
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<210> 45230
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<400> 45230
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<400> 45231
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<210> 45232
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<400> 45232
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<210> 45235
<211> 22
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<210> 45238
<211> 18
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<210> 45242
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<210> 45243
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<210> 45244
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<210> 45245
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<220>
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<400> 45247
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<210> 45248
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<220>
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<210> 45249
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<220>
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<210> 45250
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<220>
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<210> 45251
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<210> 45252
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<220>
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<210> 45254
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<400> 45254
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<400> 45256
uuccacauuc caucuccacc ca 22

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<400> 45257
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<210> 45258
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<400> 45258
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<210> 45259
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<220>
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<400> 45260
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<210> 45262
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<210> 45264
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<400> 45264
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<210> 45265
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<400> 45265
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<210> 45266
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<220>
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<400> 45266
gagguagaca gagcucca 18

<210> 45267
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<220>
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<400> 45267
ugagguagac agagcucca 19

<210> 45268
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<210> 45269
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<210> 45270
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<400> 45270
aguugaggua gacagagcuc ca 22

<210> 45271
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<400> 45271
gaguugaggu agacagagcu cca 23

<210> 45272
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ggaguugagg uagacagagc ucca 24

<210> 45273
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<220>
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ggcggggagc cggcagcgca 20

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<210> 45278
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cggggcgggg agccggcagc gca 23

<210> 45279
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<400> 45279
gcggggcggg gagccggcag cgca 24

<210> 45280
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<220>
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<400> 45280
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<210> 45281
<211> 19
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<220>
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<400> 45281
uaagggugug gggagcgca 19

<210> 45282
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<220>
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<210> 45283
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<210> 45284
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<400> 45284
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<210> 45285
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<220>
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<400> 45285
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<210> 45286
<211> 24
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<220>
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<400> 45286
ggucuuaagg guguggggag cgca 24

<210> 45287
<211> 18
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<220>
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<400> 45287
gaucucccag gacgggca 18

<210> 45288
<211> 19
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<220>
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<400> 45288
ggaucuccca ggacgggca 19

<210> 45289
<211> 20
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<220>
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<400> 45289
gggaucuccc aggacgggca 20

<210> 45290
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<220>
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<210> 45291
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<220>
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<210> 45292
<211> 23
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<220>
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<400> 45292
gcagggaucu cccaggacgg gca 23

<210> 45293
<211> 24
<212> RNA
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<220>
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<400> 45293
ggcagggauc ucccaggacg ggca 24

<210> 45294
<211> 18
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<220>
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<400> 45294
ggucauucua gguccuca 18

<210> 45295
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<220>
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uggucauucu agguccuca 19

<210> 45296
<211> 20
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<220>
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<400> 45296
guggucauuc uagguccuca 20

<210> 45297
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<220>
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<210> 45298
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<220>
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<400> 45298
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<210> 45299
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<213> Artificial Sequence

<220>
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<400> 45299
gggguggguca uucuaggucc uca 23

<210> 45300
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<220>
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<400> 45300
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<210> 45301
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<220>
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<400> 45301
ccacaggagg cuuugaga 18

<210> 45302
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<220>
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<400> 45302
cccacaggag gcuuugaga 19

<210> 45303
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<220>
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<400> 45303
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<210> 45304
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<220>
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<400> 45304
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<210> 45305
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<220>
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<400> 45305
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<210> 45306
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<220>
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<400> 45306
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<210> 45307
<211> 24
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<220>
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<400> 45307
cuccacccac aggaggcuuu gaga 24

<210> 45308
<211> 18
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<220>
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<400> 45308
aucaggaguu gagguaga 18

<210> 45309
<211> 19
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<220>
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<400> 45309
caucaggagu ugagguaga 19

<210> 45310
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<220>
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<400> 45310
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<210> 45311
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<220>
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<400> 45311
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<210> 45312
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<220>
<223> Synthetic oligonucleotide: BID-5603

<400> 45312
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<210> 45313
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<220>
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<400> 45313
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<210> 45314
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<220>
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<400> 45314
ucuggcauca ggaguugagg uaga 24

<210> 45315
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<220>
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<400> 45315
gccccucuug cccaggga 18

<210> 45316
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<213> Artificial Sequence

<220>
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<400> 45316
ugccccucuu gcccaggga 19

<210> 45317
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<220>
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<400> 45317
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<210> 45318
<211> 21
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<220>
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<400> 45318
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<210> 45319
<211> 22
<212> RNA
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<220>
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<400> 45319
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<210> 45320
<211> 23
<212> RNA
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<220>
<223> Synthetic oligonucleotide: BID-5610

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<210> 45329
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<400> 45330
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<210> 45331
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<210> 45335
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<210> 45336
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<210> 45338
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<210> 45342
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<210> 45347
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<210> 45348
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<210> 45349
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<400> 45349
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<210> 45350
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<210> 45357
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<210> 45363
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<210> 45374
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<220>
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<400> 45374
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<400> 45375
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<210> 45376
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<210> 45378
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<400> 45381
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<210> 45383
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<220>
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<400> 45383
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<210> 45384
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<400> 45384
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<400> 45385
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<210> 45386
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<210> 45392
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<210> 45394
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<220>
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<210> 45395
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<220>
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<220>
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<220>
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<210> 45401
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<400> 45401
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<210> 45404
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<400> 45404
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<220>
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<210> 45406
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<220>
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<210> 45407
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<210> 45408
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<400> 45408
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<210> 45409
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<220>
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<400> 45409
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<210> 45413
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<210> 45414
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<220>
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<210> 45415
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<220>
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<400> 45415
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<210> 45416
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<220>
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<400> 45416
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<220>
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<210> 45418
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<210> 45419
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<220>
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<210> 45422
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<220>
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<210> 45423
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<220>
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<210> 45424
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<400> 45424
augaccgaga ccagauucc 19

<210> 45425
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<220>
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<400> 45425
gaugaccgag accagauucc 20

<210> 45426
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<220>
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<400> 45426
ugaugaccga gaccagauuc c 21

<210> 45427
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<220>
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<210> 45428
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<400> 45428
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<210> 45429
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<210> 45430
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<220>
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<400> 45430
aggcuugcac ccccuucc 18

<210> 45431
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<220>
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<400> 45431
caggcuugca cccccuucc 19

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<400> 45432
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<210> 45433
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<400> 45433
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<210> 45434
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<220>
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<400> 45434
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<210> 45435
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<220>
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<400> 45435
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<210> 45436
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<220>
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<400> 45436
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<210> 45437
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<220>
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<400> 45437
aggacgggca cagggagc 18

<210> 45438
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<400> 45438
caggacgggc acagggagc 19

<210> 45439
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<220>
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<210> 45440
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<210> 45441
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<220>
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<210> 45442
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<220>
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<210> 45443
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<210> 45546
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<210> 45547
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<210> 45548
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<210> 45549
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<210> 45551
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<220>
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<400> 45561
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<210> 45564
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<400> 45663
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<210> 45664
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<210> 45665
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<400> 45670
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<210> 45672
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<400> 45672
aguuuuuagu ggagguggug gg 22

<210> 45673
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<210> 45674
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<210> 45676
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<210> 45680
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<210> 45681
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<210> 45684
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<210> 45685
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<220>
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<400> 45685
aaccaggggu uuggaaagug g 21

<210> 45686
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<220>
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<400> 45686
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<210> 45924
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<210> 45925
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<400> 45926
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aggaggaagu cagaauc 17

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cauucuggcu cuguugg 17

<210> 46171
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augguuucuc aauugau 17

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<210> 46177
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<210> 46179
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agcuguuucu uugagcaaaa 20

<210> 46180
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<210> 46207
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<210> 46211
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<210> 46216
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<210> 46217
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<210> 46218
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<400> 46219
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<210> 46220
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<220>
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<210> 46221
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<210> 46222
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<210> 46228
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<210> 46234
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<210> 46235
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<220>
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<400> 46247
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<400> 46248
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<210> 46249
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<210> 46250
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<210> 46252
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<210> 46254
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<210> 46257
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<210> 46258
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<210> 46259
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<210> 46261
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<210> 46262
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<210> 46267
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<210> 46269
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<210> 46278
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<210> 46281
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<220>
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<210> 46282
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<220>
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<210> 46283
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<210> 46285
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<220>
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<210> 46286
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<220>
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<210> 46287
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<220>
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<210> 46288
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<220>
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<210> 46289
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<210> 46290
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<220>
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<220>
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<210> 46294
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<210> 46295
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<210> 46296
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<210> 46297
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<220>
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<210> 46298
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<220>
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<210> 46299
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<220>
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<210> 46300
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<210> 46301
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<210> 46302
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<210> 46408
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<210> 46537
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<210> 46648
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<210> 46821
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<210> 46855
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<210> 46864
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uuugcucaaa gaaacagcug ugag 24

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<210> 46878
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<220>
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<400> 46878
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<210> 46879
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<220>
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<210> 46880
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<400> 46881
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<220>
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<400> 46883
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<210> 46884
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<220>
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<400> 46884
aacugcugca aggauccaga gg 22

<210> 46885
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<220>
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<400> 46885
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<210> 46886
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<220>
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<210> 46887
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<220>
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<210> 46893
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<220>
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<210> 46894
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<220>
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<220>
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<210> 46899
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auaaugguuu cucaauug 18

<210> 46902
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<220>
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<210> 46905
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agccccuacu aaauacc 17

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<210> 47148
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<210> 47243
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<210> 47244
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aaacuccaau cuggcuuggc 20

<210> 47251
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<210> 47252
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<210> 47253
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<210> 47254
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<210> 47255
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<210> 47256
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<220>
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<210> 47257
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<220>
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<210> 47258
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<220>
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<210> 47259
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<210> 47260
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<220>
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gaauaaaauu gggauuuagg 20

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<210> 47264
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<220>
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<210> 47265
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<210> 47268
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gaguugucaa ugaaaugaau 20

<210> 47269
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<220>
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<400> 47269
cagagccagc caagccagau 20

<210> 47270
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<210> 47271
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<400> 47271
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<210> 47272
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<220>
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<400> 47272
uggauaacua aguggagacu 20

<210> 47273
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<220>
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<210> 47274
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<220>
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<400> 47274
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<210> 47275
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<210> 47505
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<210> 47509
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<210> 47865
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<210> 47866
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<210> 47992
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<210> 47993
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<210> 48004
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<210> 48228
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<210> 49195
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gucucucagc ugguaca 17

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gcagacagac uugucac 17

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uuugaaacag guaagac 17

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agcuuuggug ccuucgc 17

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gcugcccuua ccugggc 17

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cuccuccuga aaguggc 17

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ugugggacaa gaggauc 17

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gggaagaagg ugucuuc 17

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cggcaggguc aggguuc 17

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aauccuccuc cugaaag 17

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gauaucugug ggacaag 17

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guaucuguaa aaccaag 17

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aaaccaagag gccacag 17

<210> 49332
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uguuugagaa ucaaaaucg 19

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<210> 49456
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<210> 49467
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<210> 49473
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gaauaggcag acagacuugu ca 22

<210> 49505
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<210> 49506
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<400> 49511
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cucagcuggu acacggcagg gu 22

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ucucagcugg uacacggcag ggu 23

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cucucagcug guacacggca gggu 24

<210> 49529
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uuucaaaacc ugucaguga 19

<210> 49537
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<220>
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uccuccuccu gaaagugg 18

<210> 49548
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<220>
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<400> 49548
auccuccucc ugaaagugg 19

<210> 49549
<211> 20
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<220>
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ggugaggggc cuugaagcu 19

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aacaaaugug ucacaaagu 19

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<220>
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aaacaaaugu gucacaaagu 20

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<220>
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ucacaggaac uuucuaaa 18

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<220>
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aucacaggaa cuuucuaaa 19

<210> 49558
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caucacagga acuuucuaaa 20

<210> 49559
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gacaucacag gaacuuucua aa 22

<210> 49561
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<210> 49562
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<210> 49563
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<220>
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<210> 49567
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<210> 49568
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<210> 49569
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ucgaccagcu ugacauca 18

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<210> 49572
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<220>
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<210> 49574
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<220>
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<400> 49574
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<210> 49575
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<220>
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uuuucucgac cagcuugaca uca 23

<210> 49576
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<220>
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cuuuucucga ccagcuugac auca 24

<210> 49577
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<220>
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<400> 49577
cgaccagcuu gacaucac 18

<210> 49578
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<220>
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<400> 49578
ucgaccagcu ugacaucac 19

<210> 49579
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cucgaccagc uugacaucac 20

<210> 49580
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<220>
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ucucgaccag cuugacauca c 21

<210> 49581
<211> 22
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uucucgacca gcuugacauc ac 22

<210> 49582
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<400> 49582
uuucucgacc agcuugacau cac 23

<210> 49583
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<400> 49583
uuuucucgac cagcuugaca ucac 24

<210> 49584
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<400> 49584
ucuggauauc ugugggac 18

<210> 49585
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<220>
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<400> 49585
uucuggauau cugugggac 19

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<220>
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<400> 49586
guucuggaua ucugugggac 20

<210> 49587
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<220>
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<400> 49587
gguucuggau aucuguggga c 21

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<400> 49588
ggguucugga uaucuguggg ac 22

<210> 49589
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aggguucugg auaucugugg gac 23

<210> 49590
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caggguucug gauaucugug ggac 24

<210> 49591
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<400> 49591
caccaaagcu gcccuuac 18

<210> 49592
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<400> 49592
gcaccaaagc ugcccuuac 19

<210> 49593
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<400> 49593
ggcaccaaag cugcccuuac 20

<210> 49594
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<400> 49594
aggcaccaaa gcugcccuua c 21

<210> 49595
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aaggcaccaa agcugcccuu ac 22

<210> 49596
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<220>
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<400> 49596
gaaggcacca aagcugcccu uac 23

<210> 49597
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cgaaggcacc aaagcugccc uuac 24

<210> 49598
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<220>
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<400> 49598
guucguaucu guaaaacc 18

<210> 49599
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<220>
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<400> 49599
gguucguauc uguaaaacc 19

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<220>
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<400> 49600
agguucguau cuguaaaacc 20

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<210> 49602
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uuagguucgu aucuguaaaa cc 22

<210> 49603
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<400> 49603
uuuagguucg uaucuguaaa acc 23

<210> 49604
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<220>
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<400> 49604
guuuagguuc guaucuguaa aacc 24

<210> 49605
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<400> 49605
agcugcccuu accugggc 18

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<400> 49606
aagcugcccu uaccugggc 19

<210> 49607
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<400> 49607
aaagcugccc uuaccugggc 20

<210> 49608
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<400> 49608
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<210> 49609
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ccaaagcugc ccuuaccugg gc 22

<210> 49610
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<220>
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<400> 49610
accaaagcug cccuuaccug ggc 23

<210> 49611
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<400> 49611
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<210> 49612
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<400> 49612
gccacagcac uguugcuc 18

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<220>
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<400> 49613
ggccacagca cuguugcuc 19

<210> 49614
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<220>
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<400> 49614
aggccacagc acuguugcuc 20

<210> 49615
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<220>
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<400> 49615
caggccacag cacuguugcu c 21

<210> 49616
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<220>
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<400> 49616
ccaggccaca gcacuguugc uc 22

<210> 49617
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<220>
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<400> 49617
uccaggccac agcacuguug cuc 23

<210> 49618
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<220>
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<400> 49618
cuccaggcca cagcacuguu gcuc 24

<210> 49619
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<220>
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<400> 49619
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<220>
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<400> 49620
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<220>
<223> Synthetic oligonucleotide: TRAC-341

<400> 49621
uggaccacag ccgcagcguc 20

<210> 49622
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<220>
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<400> 49622
cuggaccaca gccgcagcgu c 21

<210> 49623
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<220>
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<400> 49623
gcuggaccac agccgcagcg uc 22

<210> 49624
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<400> 49624
agcuggacca cagccgcagc guc 23

<210> 49625
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<220>
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<400> 49625
cagcuggacc acagccgcag cguc 24

<210> 49626
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<400> 49626
uuaaacccgg ccacuuuc 18

<210> 49627
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<220>
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<400> 49627
auuaaacccg gccacuuuc 19

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<400> 49628
gauuaaaccc ggccacuuuc 20

<210> 49629
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<220>
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<400> 49630
cagauuaaac ccggccacuu uc 22

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gcagauuaaa cccggccacu uuc 23

<210> 49632
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agcagauuaa acccggccac uuuc 24

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caaggccccu caccucag 18

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<400> 49634
ucaaggcccc ucaccucag 19

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<220>
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<400> 49635
uucaaggccc cucaccucag 20

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<220>
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<400> 49636
cuucaaggcc ccucaccuca g 21

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gcuucaaggc cccucaccuc ag 22

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agcuucaagg ccccucaccu cag 23

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<400> 49640
aaacccggcc acuuucag 18

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<400> 49641
uaaacccggc cacuuucag 19

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<400> 49642
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<400> 49644
gauuaaaccc ggccacuuuc ag 22

<210> 49645
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<400> 49645
agauuaaacc cggccacuuu cag 23

<210> 49646
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<400> 49647
aacccggcca cuuucagg 18

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<220>
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<400> 49648
aaacccggcc acuuucagg 19

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<400> 49649
uaaacccggc cacuuucagg 20

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<400> 49650
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<220>
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<400> 49651
auuaaacccg gccacuuuca gg 22

<210> 49652
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<220>
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<400> 49652
gauuaaaccc ggccacuuuc agg 23

<210> 49653
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<220>
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<400> 49653
agauuaaacc cggccacuuu cagg 24

<210> 49654
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<220>
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<400> 49654
cccuuaccug ggcugggg 18

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<220>
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<400> 49655
gcccuuaccu gggcugggg 19

<210> 49656
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<220>
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<400> 49656
ugcccuuacc ugggcugggg 20

<210> 49657
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<220>
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<400> 49657
cugcccuuac cugggcuggg g 21

<210> 49658
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<220>
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gcugcccuua ccugggcugg gg 22

<210> 49659
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<220>
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<400> 49659
agcugcccuu accugggcug ggg 23

<210> 49660
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<220>
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<400> 49660
aagcugcccu uaccugggcu gggg 24

<210> 49661
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<400> 49661
aagcugcccu uaccuggg 18

<210> 49662
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<220>
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<400> 49662
aaagcugccc uuaccuggg 19

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<400> 49663
caaagcugcc cuuaccuggg 20

<210> 49664
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<220>
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<400> 49664
ccaaagcugc ccuuaccugg g 21

<210> 49665
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<400> 49665
accaaagcug cccuuaccug gg 22

<210> 49666
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<220>
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<400> 49666
caccaaagcu gcccuuaccu ggg 23

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<220>
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<400> 49667
gcaccaaagc ugcccuuacc uggg 24

<210> 49668
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<400> 49668
cugcccuuac cugggcug 18

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<220>
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<400> 49669
gcugcccuua ccugggcug 19

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<220>
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<400> 49670
agcugcccuu accugggcug 20

<210> 49671
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<220>
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<400> 49671
aagcugcccu uaccugggcu g 21

<210> 49672
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<220>
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<400> 49672
aaagcugccc uuaccugggc ug 22

<210> 49673
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<400> 49673
caaagcugcc cuuaccuggg cug 23

<210> 49674
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<400> 49674
ccaaagcugc ccuuaccugg gcug 24

<210> 49675
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<400> 49675
caggguucug gauaucug 18

<210> 49676
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<220>
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<400> 49676
ucaggguucu ggauaucug 19

<210> 49677
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<220>
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<400> 49677
gucaggguuc uggauaucug 20

<210> 49678
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<220>
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<400> 49678
ggucaggguu cuggauaucu g 21

<210> 49679
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<220>
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<400> 49679
gggucagggu ucuggauauc ug 22

<210> 49680
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<220>
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<400> 49680
agggucaggg uucuggauau cug 23

<210> 49681
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<220>
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<400> 49681
cagggucagg guucuggaua ucug 24

<210> 49682
<211> 18
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<220>
<223> Synthetic oligonucleotide: TRAC-398

<400> 49682
ucuggaauaa ugcuguug 18

<210> 49683
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<220>
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<400> 49683
uucuggaaua augcuguug 19

<210> 49684
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<220>
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<400> 49684
cuucuggaau aaugcuguug 20

<210> 49685
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<220>
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<400> 49685
ucuucuggaa uaaugcuguu g 21

<210> 49686
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<220>
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<400> 49686
gucuucugga auaaugcugu ug 22

<210> 49687
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<220>
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<400> 49687
ugucuucugg aauaaugcug uug 23

<210> 49688
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<220>
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<400> 49688
gugucuucug gaauaaugcu guug 24

<210> 49689
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<220>
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<400> 49689
cacuuucagg aggaggau 18

<210> 49690
<211> 19
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<220>
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<400> 49690
ccacuuucag gaggaggau 19

<210> 49691
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<220>
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<400> 49691
gccacuuuca ggaggaggau 20

<210> 49692
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<220>
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<400> 49692
ggccacuuuc aggaggagga u 21

<210> 49693
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<220>
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<400> 49693
cggccacuuu caggaggagg au 22

<210> 49694
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<220>
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<400> 49694
ccggccacuu ucaggaggag gau 23

<210> 49695
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<220>
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<400> 49695
cccggccacu uucaggagga ggau 24

<210> 49696
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<220>
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<400> 49696
gcugcccuua ccugggcu 18

<210> 49697
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<220>
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<400> 49697
agcugcccuu accugggcu 19

<210> 49698
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<220>
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<400> 49698
aagcugcccu uaccugggcu 20

<210> 49699
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<220>
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<400> 49699
aaagcugccc uuaccugggc u 21

<210> 49700
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<220>
<223> Synthetic oligonucleotide: TRAC-415

<400> 49700
caaagcugcc cuuaccuggg cu 22

<210> 49701
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<220>
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<400> 49701
ccaaagcugc ccuuaccugg gcu 23

<210> 49702
<211> 24
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<220>
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<400> 49702
accaaagcug cccuuaccug ggcu 24

<210> 49703
<211> 18
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<220>
<223> Synthetic oligonucleotide: TRAC-418

<400> 49703
ucaggguucu ggauaucu 18

<210> 49704
<211> 19
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<220>
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<400> 49704
gucaggguuc uggauaucu 19

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<400> 49707
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<400> 49773
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<400> 49774
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<400> 49775
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<210> 49791
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<210> 49792
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<210> 49793
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<210> 49794
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<400> 49795
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<210> 49798
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<210> 49799
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<210> 49804
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<210> 49805
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<210> 49807
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<400> 49809
uggguuccga auccuccuc 19

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gugauuggguu uccgaauccu ccuc 24

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<400> 49815
ugugauguca agcugguc 18

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<220>
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<400> 49817
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<400> 49818
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<210> 49820
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<210> 49821
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ucaacaacag cauuauuc 18

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<220>
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uucaacaaca gcauuauuc 19

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<210> 49825
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ccuucaacaa cagcauuauu c 21

<210> 49826
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<210> 49827
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<210> 49828
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gucugccuau ucaccga 17

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<210> 49950
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guaucuggag ucauugaggg 20

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uggaaaggga agagguaaug 20

<210> 50208
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<220>
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<400> 50208
cccuguuuuc uuucagacug 20

<210> 50209
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<220>
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<400> 50209
gaauccuuuc ucuugaccug 20

<210> 50210
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<220>
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<400> 50210
acugccugag cagccgccug 20

<210> 50211
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<220>
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<400> 50211
gagcagguga gugggccug 20

<210> 50212
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<220>
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<400> 50212
ggcugcuccu ugaggggcug 20

<210> 50213
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<220>
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<400> 50213
ugggaaggag gugcacagug 20

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<220>
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<400> 50214
uguggccagg cacaccagug 20

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<220>
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<400> 50215
ugggguagag caggugagug 20

<210> 50216
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<220>
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<400> 50216
ccaguguggc cuuuugggug 20

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<220>
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<400> 50217
ggcaguaucu ggagucauug 20

<210> 50218
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<220>
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<400> 50218
ugagggcggg cugcuccuug 20

<210> 50219
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<220>
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<400> 50219
agcugagcug gugggugaau 20

<210> 50220
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<220>
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<400> 50220
cuggaaaggg aagagguaau 20

<210> 50221
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<220>
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<400> 50221
gguaaggagg agggugggau 20

<210> 50222
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<220>
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<400> 50222
uggcucaaac acagcgaccu 20

<210> 50223
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<220>
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<400> 50223
accugcucua ccccaggccu 20

<210> 50224
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<220>
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gaucgucagc gccgaggccu 20

<210> 50225
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<220>
<223> Synthetic oligonucleotide: TRBC-275

<400> 50225
agagcaggug agugggccu 20

<210> 50226
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<220>
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<400> 50226
gacagguuug gcccuauccu 20

<210> 50227
<211> 20
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<220>
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<400> 50227
agggaagagg uaaugggcu 20

<210> 50228
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<220>
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<400> 50228
auccucuaug agaucuugcu 20

<210> 50229
<211> 20
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<220>
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<400> 50229
gagcagccgc cugagggucu 20

<210> 50230
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<220>
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<400> 50230
augggaagga ggugcacagu 20

<210> 50231
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<220>
<223> Synthetic oligonucleotide: TRBC-281

<400> 50231
cugggguaga gcaggugagu 20

<210> 50232
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<220>
<223> Synthetic oligonucleotide: TRBC-282

<400> 50232
gccaugguaa ggaggagggu 20

<210> 50233
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<220>
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<400> 50233
ccacguggag cugagcuggu 20

<210> 50234
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<220>
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ccagcucagc uccacguggu 20

<210> 50235
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<220>
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<400> 50235
uugacaagaa cagagcaugu 20

<210> 50236
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<220>
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<400> 50236
caguguggcc uuuugggugu 20

<210> 50237
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<220>
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<400> 50237
gacgaucugg gugacagguu 20

<210> 50238
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<220>
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<400> 50238
ggcacaccag uguggccuuu 20

<210> 50239
<211> 20
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<220>
<223> Synthetic oligonucleotide: TRBC-289

<400> 50239
agaaugaccu gggaugguuu 20

<210> 50240
<211> 20
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<220>
<223> Synthetic oligonucleotide: TRBC-290

<400> 50240
gcacaccagu guggccuuuu 20

<210> 50241
<211> 21
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<220>
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<400> 50241
cuucccuagc aagaucucau a 21

<210> 50242
<211> 22
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<220>
<223> Synthetic oligonucleotide: TRBC-292

<400> 50242
ccuucccuag caagaucuca ua 22

<210> 50243
<211> 23
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<220>
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<400> 50243
gccuucccua gcaagaucuc aua 23

<210> 50244
<211> 24
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<220>
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<400> 50244
ggccuucccu agcaagaucu caua 24

<210> 50245
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<220>
<223> Synthetic oligonucleotide: TRBC-295

<400> 50245
ggcucaaaca cagcgacc 18

<210> 50246
<211> 19
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<220>
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<400> 50246
uggcucaaac acagcgacc 19

<210> 50247
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<220>
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<400> 50247
auggcucaaa cacagcgacc 20

<210> 50248
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<220>
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<400> 50248
gauggcucaa acacagcgac c 21

<210> 50249
<211> 22
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<220>
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<400> 50249
ugauggcuca aacacagcga cc 22

<210> 50250
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<220>
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cugauggcuc aaacacagcg acc 23

<210> 50251
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<220>
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<400> 50251
ucugauggcu caaacacagc gacc 24

<210> 50252
<211> 18
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<220>
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<400> 50252
gacagcggaa gugguugc 18

<210> 50253
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<220>
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<400> 50253
ugacagcgga agugguugc 19

<210> 50254
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<220>
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uugacagcgg aagugguugc 20

<210> 50255
<211> 21
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<220>
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cuugacagcg gaagugguug c 21

<210> 50256
<211> 22
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<220>
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<400> 50256
acuugacagc ggaagugguu gc 22

<210> 50257
<211> 23
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<220>
<223> Synthetic oligonucleotide: TRBC-306

<400> 50257
gacuugacag cggaaguggu ugc 23

<210> 50258
<211> 24
<212> RNA
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<220>
<223> Synthetic oligonucleotide: TRBC-307

<400> 50258
ggacuugaca gcggaagugg uugc 24

<210> 50259
<211> 18
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<220>
<223> Synthetic oligonucleotide: TRBC-308

<400> 50259
gacagguuug gcccuauc 18

<210> 50260
<211> 19
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<220>
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<400> 50260
ugacagguuu ggcccuauc 19

<210> 50261
<211> 20
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<220>
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<400> 50261
gugacagguu uggcccuauc 20

<210> 50262
<211> 18
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<220>
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<400> 50262
ggcugcucag gcaguauc 18

<210> 50263
<211> 19
<212> RNA

<213> Artificial Sequence

<220>
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<400> 50263
cggcugcuca ggcaguauc 19

<210> 50264
<211> 20
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<220>
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<400> 50264
gcggcugcuc aggcaguauc 20

<210> 50265
<211> 21
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<220>
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<400> 50265
ggcggcugcu caggcaguau c 21

<210> 50266
<211> 22
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<220>
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<400> 50266
aggcggcugc ucaggcagua uc 22

<210> 50267
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<220>
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<400> 50267
caggcggcug cucaggcagu auc 23

<210> 50268
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<220>
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<400> 50268
ucaggcggcu gcucaggcag uauc 24

<210> 50269
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<212> RNA
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<220>
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<400> 50269
gguuuuggag cuagccuc 18

<210> 50270
<211> 19
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<220>
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ugguuuugga gcuagccuc 19

<210> 50271
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<220>
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<400> 50271
augguuuugg agcuagccuc 20

<210> 50272
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<220>
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<400> 50272
gaugguuuug gagcuagccu c 21

<210> 50273
<211> 22
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<220>
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<400> 50273
ggaugguuuu ggagcuagcc uc 22

<210> 50274
<211> 23
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<220>
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<400> 50274
gggaugguuu uggagcuagc cuc 23

<210> 50275
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<220>
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<400> 50275
ugggaugguu uuggagcuag ccuc 24

<210> 50276
<211> 18
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<220>
<223> Synthetic oligonucleotide: TRBC-323

<400> 50276
ggccucggcg cugacgau 18

<210> 50277
<211> 19
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<220>
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<400> 50277
aggccucggc gcugacgau 19

<210> 50278
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<220>
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<400> 50278
caggccucgg cgcugacgau 20

<210> 50279
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<220>
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<400> 50279
ccaggccucg gcgcugacga u 21

<210> 50280
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<220>
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<400> 50280
cccaggccuc ggcgcugacg au 22

<210> 50281
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<220>
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<400> 50281
ccccaggccu cggcgcugac gau 23

<210> 50282
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<220>
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<400> 50282
accccaggcc ucggcgcuga cgau 24

<210> 50283
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<220>
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<400> 50283
accagcucag cuccacgugg u 21

<210> 50284
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<220>
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<400> 50284
caccagcuca gcuccacgug gu 22

<210> 50285
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<220>
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<400> 50285
ccaccagcuc agcuccacgu ggu 23

<210> 50286
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<220>
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<400> 50286
cccaccagcu cagcuccacg uggu 24

<210> 50287
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<220>
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<400> 50287
caggcacacc aguguggccu u 21

<210> 50288
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<220>
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<400> 50288
ccaggcacac caguguggcc uu 22

<210> 50289
<211> 23
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<220>
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<400> 50289
gccaggcaca ccaguguggc cuu 23

<210> 50290
<211> 24
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<220>
<223> Synthetic oligonucleotide: TRBC-337

<400> 50290
ggccaggcac accagugugg ccuu 24

<210> 50291
<211> 21
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<220>
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<400> 50291
cuguggaaga gagaacauuu u 21

<210> 50292
<211> 22
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<220>
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<400> 50292
ccuguggaag agagaacauu uu 22

<210> 50293
<211> 23
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<220>
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<400> 50293
accuguggaa gagagaacau uuu 23

<210> 50294
<211> 24
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<220>
<223> Synthetic oligonucleotide: TRBC-341

<400> 50294
gaccugugga agagagaaca uuuu 24

<210> 50295
<211> 18
<212> RNA
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<220>
<223> Synthetic oligonucleotide: TRBC-342

<400> 50295
augcucuguu cuugucaa 18

<210> 50296
<211> 19
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<220>
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<400> 50296
caugcucugu ucuugucaa 19

<210> 50297
<211> 20
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<213> Artificial Sequence

<220>
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<400> 50297
acaugcucug uucuugucaa 20

<210> 50298
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<220>
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<400> 50298
uacaugcucu guucuuguca a 21

<210> 50299
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<220>
<223> Synthetic oligonucleotide: TRBC-346

<400> 50299
cuacaugcuc uguucuuguc aa 22

<210> 50300
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<220>
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<400> 50300
ccuacaugcu cuguucuugu caa 23

<210> 50301
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<220>
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<400> 50301
accuacaugc ucuguucuug ucaa 24

<210> 50302
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<220>
<223> Synthetic oligonucleotide: TRBC-349

<400> 50302
uggcuucacc uccgguaa 18

<210> 50303
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<220>
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<400> 50303
guggcuucac cuccgguaa 19

<210> 50304
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<220>
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<400> 50304
uguggcuuca ccuccgguaa 20

<210> 50305
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<220>
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<400> 50305
cuguggcuuc accuccggua a 21

<210> 50306
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<220>
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<400> 50306
acuguggcuu caccuccggu aa 22

<210> 50307
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<220>
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<400> 50307
gacuguggcu ucaccuccgg uaa 23

<210> 50308
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<220>
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<400> 50308
agacuguggc uucaccuccg guaa 24

<210> 50309
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<220>
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<400> 50309
aacagagucu uaccagca 18

<210> 50310
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<220>
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<400> 50310
caacagaguc uuaccagca 19

<210> 50311
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<220>
<223> Synthetic oligonucleotide: TRBC-22

<400> 50311
ucaacagagu cuuaccagca 20

<210> 50312
<211> 21
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<220>
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<400> 50312
ucucuuccac aggucaagag a 21

<210> 50313
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<220>
<223> Synthetic oligonucleotide: TRBC-359

<400> 50313
cucucuucca caggucaaga ga 22

<210> 50314
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<220>
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<400> 50314
ucucucuucc acaggucaag aga 23

<210> 50315
<211> 24
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<220>
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<400> 50315
uucucucuuc cacaggucaa gaga 24

<210> 50316
<211> 18
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<220>
<223> Synthetic oligonucleotide: TRBC-362

<400> 50316
gagaaugacg aguggacc 18

<210> 50317
<211> 19
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<220>
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<400> 50317
ggagaaugac gaguggacc 19

<210> 50318
<211> 20
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<220>
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<400> 50318
cggagaauga cgaguggacc 20

<210> 50319
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<220>
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<400> 50319
ucggagaaug acgaguggac c 21

<210> 50320
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<220>
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<400> 50320
cucggagaau gacgagugga cc 22

<210> 50321
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<220>
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<400> 50321
ucucggagaa ugacgagugg acc 23

<210> 50322
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<220>
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<400> 50322
cucucggaga augacgagug gacc 24

<210> 50323
<211> 18
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<220>
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<400> 50323
aucgucagcg ccgaggcc 18

<210> 50324
<211> 19
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<220>
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<400> 50324
gaucgucagc gccgaggcc 19

<210> 50325
<211> 20
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<220>
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<400> 50325
agaucgucag cgccgaggcc 20

<210> 50326
<211> 21
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<220>
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<400> 50326
cagaucguca gcgccgaggc c 21

<210> 50327
<211> 22
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<220>
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<400> 50327
ccagaucguc agcgccgagg cc 22

<210> 50328
<211> 23
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<220>
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<400> 50328
cccagaucgu cagcgccgag gcc 23

<210> 50329
<211> 24
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<220>
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<400> 50329
acccagaucg ucagcgccga ggcc 24

<210> 50330
<211> 21
<212> RNA
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<220>
<223> Synthetic oligonucleotide: TRBC-375

<400> 50330
ccgaggccug ggguagagca g 21

<210> 50331
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<210> 50334
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<210> 50339
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<210> 50340
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<400> 50341
acgggcucuc ggagaaug 18

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<400> 50342
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<400> 50343
cuacgggcuc ucggagaaug 20

<210> 50344
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<220>
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<210> 50346
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<220>
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<210> 50347
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<400> 50347
aguucuacgg gcucucggag aaug 24

<210> 50348
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<220>
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<400> 50348
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<210> 50350
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<220>
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<210> 50351
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<220>
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<220>
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<210> 50354
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<220>
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<220>
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<400> 50355
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<210> 50356
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<400> 50356
gauacugccu gagcagccgc cu 22

<210> 50357
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<400> 50357
agauacugcc ugagcagccg ccu 23

<210> 50358
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cagauacugc cugagcagcc gccu 24

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<220>
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<400> 50359
gaaaacaggg gaagaaaa 18

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<220>
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<400> 50360
agaaaacagg ggaagaaaa 19

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<400> 50363
gaaagaaaac aggggaagaa aa 22

<210> 50364
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<220>
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<400> 50364
ugaaagaaaa caggggaaga aaa 23

<210> 50365
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<220>
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cugaaagaaa acaggggaag aaaa 24

<210> 50366
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<220>
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<400> 50366
cccuagcaag aucucaua 18

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<220>
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<400> 50367
ucccuagcaa gaucucaua 19

<210> 50368
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<220>
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<400> 50368
uucccuagca agaucucaua 20

<210> 50369
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<220>
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ggugacaggu uuggcccuau c 21

<210> 50370
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<220>
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gggugacagg uuuggcccua uc 22

<210> 50371
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<220>
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ugggugacag guuuggcccu auc 23

<210> 50372
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<220>
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cugggugaca gguuuggccc uauc 24

<210> 50373
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<220>
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<400> 50373
gcugcuccuu gaggggcu 18

<210> 50374
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<220>
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<400> 50374
ggcugcuccu ugaggggcu 19

<210> 50375
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<220>
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gggcugcucc uugaggggcu 20

<210> 50376
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<220>
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cgggcugcuc cuugaggggc u 21

<210> 50377
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<220>
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gcgggcugcu ccuugagggg cu 22

<210> 50378
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ggcgggcugc uccuugaggg gcu 23

<210> 50379
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<210> 50380
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cagcucagcu ccacguggu 19

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<220>
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<210> 50383
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gcacaccagu guggccuu 18

<210> 50384
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<220>
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ggcacaccag uguggccuu 19

<210> 50385
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<210> 50389
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ugucaacaga gucuuaccag ca 22

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uugucaacag agucuuacca gca 23

<210> 50392
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<220>
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cuugucaaca gagucuuacc agca 24

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<220>
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cuuccacagg ucaagaga 18

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<220>
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<400> 50394
ucuuccacag gucaagaga 19

<210> 50395
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<220>
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<210> 50400
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<210> 50401
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gugaauggga aggaggugca cag 23

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ggugaauggg aaggaggugc acag 24

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<220>
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<220>
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<220>
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<220>
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gauggccaug guaaggag 18

<210> 50407
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<220>
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<400> 50407
ugauggccau gguaaggag 19

<210> 50408
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<220>
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cugauggcca ugguaaggag 20

<210> 50409
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<220>
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<210> 50410
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ugcugauggc caugguaagg ag 22

<210> 50411
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gugcugaugg ccaugguaag gag 23

<210> 50412
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<210> 50413
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ccaugguaag gaggaggg 18

<210> 50414
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<220>
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<400> 50414
gccaugguaa ggaggaggg 19

<210> 50415
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<220>
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<400> 50415
ggccauggua aggaggaggg 20

<210> 50416
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<220>
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<400> 50416
uggccauggu aaggaggagg g 21

<210> 50417
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<220>
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<400> 50417
auggccaugg uaaggaggag gg 22

<210> 50418
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<220>
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<400> 50418
gauggccaug guaaggagga ggg 23

<210> 50419
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<220>
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<210> 50420
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<400> 50420
guggagcuga gcuggugg 18

<210> 50421
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<220>
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<400> 50421
cguggagcug agcuggugg 19

<210> 50422
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<220>
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<400> 50422
acguggagcu gagcuggugg 20

<210> 50423
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<220>
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cacguggagc ugagcuggug g 21

<210> 50424
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<220>
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<400> 50424
ccacguggag cugagcuggu gg 22

<210> 50425
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accacgugga gcugagcugg ugg 23

<210> 50426
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<400> 50426
gaccacgugg agcugagcug gugg 24

<210> 50427
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<400> 50427
ccacguggag cugagcug 18

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<220>
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<400> 50428
accacgugga gcugagcug 19

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<220>
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<220>
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ccacagucug aaagaaaa 18

<210> 50431
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<220>
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<400> 50431
gccacagucu gaaagaaaa 19

<210> 50432
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<220>
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agccacaguc ugaaagaaaa 20

<210> 50433
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aagccacagu cugaaagaaa a 21

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<220>
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gaagccacag ucugaaagaa aa 22

<210> 50435
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<220>
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<400> 50435
ugaagccaca gucugaaaga aaa 23

<210> 50436
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<220>
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<400> 50436
gugaagccac agucugaaag aaaa 24

<210> 50437
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<220>
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<400> 50437
uuucaggucc ucuggaaa 18

<210> 50438
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<220>
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<400> 50438
uuuucagguc cucuggaaa 19

<210> 50439
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<220>
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uuuuucaggu ccucuggaaa 20

<210> 50440
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<210> 50441
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<220>
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<210> 50442
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<220>
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acguuuuuca gguccucugg aaa 23

<210> 50443
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<220>
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cacguuuuuc agguccucug gaaa 24

<210> 50444
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<220>
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<400> 50444
agacucuguu gacaagaa 18

<210> 50445
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<220>
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<400> 50445
aagacucugu ugacaagaa 19

<210> 50446
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<220>
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<400> 50446
uaagacucug uugacaagaa 20

<210> 50447
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<220>
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guaagacucu guugacaaga a 21

<210> 50448
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<220>
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gguaagacuc uguugacaag aa 22

<210> 50449
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<220>
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<400> 50449
ugguaagacu cuguugacaa gaa 23

<210> 50450
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<210> 50451
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<220>
<223> Synthetic oligonucleotide: TRBC-492

<400> 50451
cuccgagagc ccguagaa 18

<210> 50452
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<220>
<223> Synthetic oligonucleotide: TRBC-493

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ucuccgagag cccguagaa 19

<210> 50453
<211> 20
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<220>
<223> Synthetic oligonucleotide: TRBC-494

<400> 50453
uucuccgaga gcccguagaa 20

<210> 50454
<211> 21
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<220>
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auucuccgag agcccguaga a 21

<210> 50455
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ucauucuccg agagcccgua gaa 23

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uuuucagguc cucuggaa 18

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uuuuucaggu ccucuggaa 19

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acacguuuuu cagguccucu ggaa 24

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<210> 50476
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<210> 50478
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<210> 50479
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<400> 50487
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<210> 50489
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<210> 50503
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<210> 50506
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<210> 50507
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<210> 50520
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<400> 50521
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<400> 50525
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<210> 50527
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aggugaagcc acagucuga 19

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<220>
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<400> 50536
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cucuggaaag ggaagaggua 20

<210> 50538
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<210> 50539
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uccucuggaa agggaagagg ua 22

<210> 50540
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<210> 50541
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<210> 50542
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aaaggagaga cucacuua 18

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aaaaggagag acucacuua 19

<210> 50544
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<210> 50546
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<400> 50546
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<210> 50547
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<400> 50547
gagaaaaagg agagacucac uua 23

<210> 50548
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<220>
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agagaaaaag gagagacuca cuua 24

<210> 50549
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<220>
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<400> 50549
cacagucuga aagaaaac 18

<210> 50550
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<220>
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<400> 50550
ccacagucug aaagaaaac 19

<210> 50551
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<220>
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<400> 50551
gccacagucu gaaagaaaac 20

<210> 50552
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<220>
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<400> 50552
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<210> 50553
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<220>
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<400> 50553
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<210> 50554
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<220>
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gaagccacag ucugaaagaa aac 23

<210> 50555
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<220>
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ugaagccaca gucugaaaga aaac 24

<210> 50556
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<220>
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<400> 50556
uaccauggcc aucagcac 18

<210> 50557
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<220>
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<400> 50557
uuaccauggc caucagcac 19

<210> 50558
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<220>
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cuuaccaugg ccaucagcac 20

<210> 50559
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<400> 50559
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<210> 50560
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<220>
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uccuuaccau ggccaucagc ac 22

<210> 50561
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<220>
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cuccuuacca uggccaucag cac 23

<210> 50562
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<220>
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<400> 50562
ccuccuuacc auggccauca gcac 24

<210> 50563
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<220>
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ugguaagacu cuguugac 18

<210> 50564
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<220>
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<210> 50565
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<220>
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<400> 50565
gcugguaaga cucuguugac 20

<210> 50566
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<220>
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<400> 50566
ugcugguaag acucuguuga c 21

<210> 50567
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<220>
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<400> 50567
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<210> 50568
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<400> 50568
cuugcuggua agacucuguu gac 23

<210> 50569
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<400> 50569
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<210> 50570
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<220>
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<400> 50570
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<210> 50571
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<220>
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<400> 50571
aaaggagaga cucacuuac 19

<210> 50572
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<220>
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<400> 50572
aaaaggagag acucacuuac 20

<210> 50573
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<220>
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<400> 50573
aaaaaggaga gacucacuua c 21

<210> 50574
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<220>
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<400> 50574
gaaaaaggag agacucacuu ac 22

<210> 50575
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<400> 50575
agaaaaagga gagacucacu uac 23

<210> 50576
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<220>
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<400> 50576
gagaaaaagg agagacucac uuac 24

<210> 50577
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<220>
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<400> 50577
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<210> 50578
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<220>
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<400> 50578
auugagggcg ggcugcucc 19

<210> 50579
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<210> 50580
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ucauugaggg cgggcugcuc c 21

<210> 50581
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<400> 50581
gucauugagg gcgggcugcu cc 22

<210> 50582
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<400> 50582
agucauugag ggcgggcugc ucc 23

<210> 50583
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gagucauuga gggcgggcug cucc 24

<210> 50584
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<220>
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<400> 50584
guccacucgu cauucucc 18

<210> 50585
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<220>
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gguccacucg ucauucucc 19

<210> 50586
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<220>
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<400> 50586
ggguccacuc gucauucucc 20

<210> 50587
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<210> 50588
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<400> 50588
cuggguccac ucgucauucu cc 22

<210> 50589
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<400> 50589
ccugggucca cucgucauuc ucc 23

<210> 50590
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<400> 50590
uccugggucc acucgucauu cucc 24

<210> 50591
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<400> 50591
cuuaccaugg ccaucagc 18

<210> 50592
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<400> 50592
ccuuaccaug gccaucagc 19

<210> 50593
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<220>
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<400> 50593
uccuuaccau ggccaucagc 20

<210> 50594
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<220>
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<400> 50594
cuccuuacca uggccaucag c 21

<210> 50595
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<220>
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<400> 50595
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<210> 50596
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<220>
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<400> 50596
uccuccuuac cauggccauc agc 23

<210> 50597
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<220>
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<210> 50598
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<220>
<223> Synthetic oligonucleotide: TRBC-634

<400> 50598
gggaagaggu aauggggc 18

<210> 50599
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<220>
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agggaagagg uaaugggc 19

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<210> 50602
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<400> 50602
gaaagggaag agguaauggg gc 22

<210> 50603
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<220>
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ggaaagggaa gagguaaugg ggc 23

<210> 50604
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<220>
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<400> 50604
uggaaaggga agagguaaug gggc 24

<210> 50605
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<220>
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<400> 50605
ugguugcggg gguucugc 18

<210> 50606
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<220>
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<400> 50606
gugguugcgg ggguucugc 19

<210> 50607
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<220>
<223> Synthetic oligonucleotide: TRBC-643

<400> 50607
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<210> 50608
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<220>
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<400> 50608
aagugguugc ggggguucug c 21

<210> 50609
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<220>
<223> Synthetic oligonucleotide: TRBC-645

<400> 50609
gaagugguug cgggggguucu gc 22

<210> 50610
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<220>
<223> Synthetic oligonucleotide: TRBC-646

<400> 50610
ggaagugguu gcgggggguuc ugc 23

<210> 50611
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<220>
<223> Synthetic oligonucleotide: TRBC-647

<400> 50611
cggaaguggu ugcgggggguu cugc 24

<210> 50612
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<220>
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<400> 50612
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<210> 50613
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<220>
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<400> 50613
acacguuuuu cagguccuc 19

<210> 50614
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<220>
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<400> 50614
aacacguuuu ucagguccuc 20

<210> 50615
<211> 21
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<220>
<223> Synthetic oligonucleotide: TRBC-650

<400> 50615
gaacacguuu uucagguccu c 21

<210> 50616
<211> 22
<212> RNA
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<220>
<223> Synthetic oligonucleotide: TRBC-651

<400> 50616
ggaacacguu uuucaggucc uc 22

<210> 50617
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<220>
<223> Synthetic oligonucleotide: TRBC-652

<400> 50617
gggaacacgu uuuucagguc cuc 23

<210> 50618
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<220>
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<400> 50618
ugggaacacg uuuuucaggu ccuc 24

<210> 50619
<211> 18
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<220>
<223> Synthetic oligonucleotide: TRBC-654

<400> 50619
cagucugaaa gaaaacag 18

<210> 50620
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<220>
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<400> 50620
acagucugaa agaaaacag 19

<210> 50621
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<220>
<223> Synthetic oligonucleotide: TRBC-239

<400> 50621
cacagucuga aagaaaacag 20

<210> 50622
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<400> 50622
ccacagucug aaagaaaaca g 21

<210> 50623
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<220>
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gccacagucu gaaagaaaac ag 22

<210> 50624
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<220>
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<400> 50624
agccacaguc ugaaagaaaa cag 23

<210> 50625
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<220>
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aagccacagu cugaaagaaa acag 24

<210> 50626
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<220>
<223> Synthetic oligonucleotide: TRBC-660

<400> 50626
uagaacugga cuugacag 18

<210> 50627
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<220>
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<400> 50627
guagaacugg acuugacag 19

<210> 50628
<211> 20
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<220>
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<400> 50628
cguagaacug gacuugacag 20

<210> 50629
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<220>
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<400> 50629
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<210> 50630
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<220>
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<400> 50630
cccguagaac uggacuugac ag 22

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gcccguagaa cuggacuuga cag 23

<210> 50632
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<220>
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<400> 50632
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<220>
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<400> 50633
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<220>
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<220>
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<400> 50635
gagagacuca cuuaccggag 20

<210> 50636
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<220>
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<210> 50637
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<220>
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<400> 50637
aggagagacu cacuuaccgg ag 22

<210> 50638
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<220>
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<400> 50638
aaggagagac ucacuuaccg gag 23

<210> 50639
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<220>
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<220>
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<400> 50640
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<210> 50641
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<220>
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<400> 50641
gucauucucc gagagcccg 19

<210> 50642
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<220>
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<400> 50642
cgucauucuc cgagagcccg 20

<210> 50643
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<220>
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<220>
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<400> 50644
cucgucauuc uccgagagcc cg 22

<210> 50645
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<220>
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<400> 50645
acucgucauu cuccgagagc ccg 23

<210> 50646
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<220>
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cacucgucau ucuccgagag cccg 24

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<220>
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<400> 50647
uaucuggagu cauugagg 18

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<220>
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<400> 50648
guaucuggag ucauugagg 19

<210> 50649
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<220>
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<400> 50649
aguaucugga gucauugagg 20

<210> 50650
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<220>
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<400> 50650
caguaucugg agucauugag g 21

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<220>
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<400> 50651
gcaguaucug gagucauuga gg 22

<210> 50652
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<220>
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<400> 50652
ggcaguaucu ggagucauug agg 23

<210> 50653
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<220>
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<400> 50653
aggcaguauc uggagucauu gagg 24

<210> 50654
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<220>
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<400> 50654
caaacacagc gaccucgg 18

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<220>
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<400> 50655
ucaaacacag cgaccucgg 19

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<220>
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<400> 50656
cucaaacaca gcgaccucgg 20

<210> 50657
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<220>
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<400> 50657
gcucaaacac agcgaccucg g 21

<210> 50658
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<220>
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<400> 50658
ggcucaaaca cagcgaccuc gg 22

<210> 50659
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<220>
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<400> 50659
uggcucaaac acagcgaccu cgg 23

<210> 50660
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<220>
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<400> 50660
auggcucaaa cacagcgacc ucgg 24

<210> 50661
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<220>
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<400> 50661
cagguccucu ggaaaggg 18

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<220>
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<400> 50662
ucagguccuc uggaaaggg 19

<210> 50663
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<220>
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<400> 50663
uucagguccu cuggaaaggg 20

<210> 50664
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<220>
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<400> 50664
uuucaggucc ucuggaaagg g 21

<210> 50665
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<220>
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<400> 50665
uuuucagguc cucuggaaag gg 22

<210> 50666
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<220>
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<400> 50666
uuuuucaggu ccucuggaaa ggg 23

<210> 50667
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<220>
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<400> 50667
guuuuucagg uccucuggaa aggg 24

<210> 50668
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<220>
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<400> 50668
aaacacagcg accucggg 18

<210> 50669
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<220>
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<400> 50669
caaacacagc gaccucggg 19

<210> 50670
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<220>
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<400> 50670
ucaaacacag cgaccucggg 20

<210> 50671
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<220>
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<400> 50671
cucaaacaca gcgaccucgg g 21

<210> 50672
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<220>
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<400> 50672
gcucaaacac agcgaccucg gg 22

<210> 50673
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<220>
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<400> 50673
ggcucaaaca cagcgaccuc ggg 23

<210> 50674
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<220>
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<400> 50674
uggcucaaac acagcgaccu cggg 24

<210> 50675
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<220>
<223> Synthetic oligonucleotide: TRBC-707

<400> 50675
ucugaaagaa aacagggg 18

<210> 50676
<211> 19
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<220>
<223> Synthetic oligonucleotide: TRBC-708

<400> 50676
gucugaaaga aaacagggg 19

<210> 50677
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<220>
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<400> 50677
agucugaaag aaaacagggg 20

<210> 50678
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<220>
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<400> 50678
cagucugaaa gaaaacaggg g 21

<210> 50679
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<220>
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<400> 50679
acagucugaa agaaaacagg gg 22

<210> 50680
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<220>
<223> Synthetic oligonucleotide: TRBC-712

<400> 50680
cacagucuga aagaaaacag ggg 23

<210> 50681
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<220>
<223> Synthetic oligonucleotide: TRBC-713

<400> 50681
ccacagucug aaagaaaaca gggg 24

<210> 50682
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<220>
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<400> 50682
agcuccacgu ggucgggg 18

<210> 50683
<211> 19
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<220>
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<400> 50683
cagcuccacg uggucgggg 19

<210> 50684
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<220>
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<400> 50684
ucagcuccac guggucgggg 20

<210> 50685
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<220>
<223> Synthetic oligonucleotide: TRBC-717

<400> 50685
cucagcucca cguggucggg g 21

<210> 50686
<211> 22
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<220>
<223> Synthetic oligonucleotide: TRBC-718

<400> 50686
gcucagcucc acguggucgg gg 22

<210> 50687
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<220>
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<400> 50687
agcucagcuc cacguggucg ggg 23

<210> 50688
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: TRBC-720

<400> 50688
cagcucagcu ccacgugguc gggg 24

<210> 50689
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<220>
<223> Synthetic oligonucleotide: TRBC-721

<400> 50689
cagcucagcu ccacgugg 18

<210> 50690
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<220>
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<400> 50690
ccagcucagc uccacgugg 19

<210> 50691
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<220>
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<400> 50691
accagcucag cuccacgugg 20

<210> 50692
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<220>
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<400> 50692
caccagcuca gcuccacgug g 21

<210> 50693
<211> 22
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<220>
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<400> 50693
ccaccagcuc agcuccacgu gg 22

<210> 50694
<211> 23
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<220>
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<400> 50694
cccaccagcu cagcuccacg ugg 23

<210> 50695
<211> 24
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<220>
<223> Synthetic oligonucleotide: TRBC-727

<400> 50695
acccaccagc ucagcuccac gugg 24

<210> 50696
<211> 18
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<220>
<223> Synthetic oligonucleotide: TRBC-728

<400> 50696
gguucugcca gaaggugg 18

<210> 50697
<211> 19
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<220>
<223> Synthetic oligonucleotide: TRBC-729

<400> 50697
ggguucugcc agaaggugg 19

<210> 50698
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<220>
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<400> 50698
gggguucugc cagaaggugg 20

<210> 50699
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<220>
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<400> 50699
gggggguucug ccagaaggug g 21

<210> 50700
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<220>
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<400> 50700
cgggggguucu gccagaaggu gg 22

<210> 50701
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<220>
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<400> 50701
gcgggggguuc ugccagaagg ugg 23

<210> 50702
<211> 24
<212> RNA
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<220>
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<210> 50714
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<210> 50728
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<210> 50737
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<400> 50763
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<210> 50793
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<220>
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<210> 50806
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<220>
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<210> 50807
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<220>
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<210> 50813
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<210> 50814
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agaaugaccu gggaugguu 19

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<400> 50817
aagaaugacc ugggaugguu 20

<210> 50818
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<210> 50820
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<210> 50821
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<220>
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<210> 50822
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<210> 50824
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<210> 50825
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<210> 50919
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<210> 50925
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<220>
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<220>
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<210> 50936
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<210> 50937
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<210> 50942
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<210> 50943
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<210> 50944
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<210> 50946
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<210> 50948
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<210> 50974
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<210> 50975
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<220>
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<210> 50989
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<210> 50990
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<220>
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<400> 50990
uggggccugg ggagaugc 18

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<220>
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<210> 50992
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<220>
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<210> 50993
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<210> 50994
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<220>
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<210> 50995
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<210> 50996
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<210> 50997
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<400> 50998
caaugacucc agauacugc 19

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ucaaugacuc cagauacugc 20

<210> 51000
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<210> 51001
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<210> 51002
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<210> 51003
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<210> 51004
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<210> 51006
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<210> 51007
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<210> 51008
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<400> 51008
accauccucu augagaucuu gc 22

<210> 51009
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<220>
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<400> 51009
caccauccuc uaugagaucu ugc 23

<210> 51010
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<400> 51010
ccaccauccu cuaugagauc uugc 24

<210> 51011
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<210> 51012
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<210> 51013
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<210> 51014
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agcacagacc cgcagccccu c 21

<210> 51015
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<210> 51016
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ucagcacaga cccgcagccc cuc 23

<210> 51017
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gucagcacag acccgcagcc ccuc 24

<210> 51018
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<400> 51018
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<210> 51019
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<210> 51020
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aaguccaguu cuacgggcuc 20

<210> 51021
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<210> 51023
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aggucaagag aaaggauuc 19

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acaggucaag agaaaggauu c 21

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<210> 51039
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<210> 51041
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<210> 51043
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<210> 51044
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<220>
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agccccauua ccucuucccu uuc 23

<210> 51045
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<220>
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<400> 51045
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<210> 51046
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<220>
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guguuugagc caucagaag 19

<210> 51048
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<220>
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<210> 51049
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<220>
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<210> 51050
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gcuguguuug agccaucaga ag 22

<210> 51051
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<220>
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<210> 51052
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<220>
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<210> 51053
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<400> 51053
gcugauggcc augguaag 18

<210> 51054
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<220>
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ugcugauggc caugguaag 19

<210> 51055
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<210> 51058
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<210> 51059
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<210> 51060
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<400> 51060
uaccccgacc acguggag 18

<210> 51061
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<220>
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<210> 51062
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<220>
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<400> 51062
ucuaccccga ccacguggag 20

<210> 51063
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<210> 51064
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<210> 51065
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<210> 51066
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<210> 51067
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<400> 51067
ugggguagag caggugag 18

<210> 51068
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cugggguaga gcaggugag 19

<210> 51069
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<220>
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ccugggguag agcaggugag 20

<210> 51070
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<210> 51071
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<210> 51094
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<210> 51106
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<210> 51115
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<210> 51122
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<210> 51123
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<210> 51129
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<210> 51134
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<210> 51135
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<210> 51136
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<210> 51139
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<210> 51141
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<210> 51142
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<210> 51143
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<210> 51144
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<210> 51148
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<210> 51149
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<220>
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gguagagcag gugaguggggg ccu 23

<210> 51150
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<210> 51151
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auccucuaug agaucuugcu 20

<210> 51154
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<220>
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<400> 51154
cauccucuau gagaucuugc u 21

<210> 51155
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<220>
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<400> 51155
ccauccucua ugagaucuug cu 22

<210> 51156
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<400> 51156
accauccucu augagaucuu gcu 23

<210> 51157
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<220>
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caccauccuc uaugagaucu ugcu 24

<210> 51158
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<210> 51159
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<210> 51160
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<210> 51161
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<210> 51162
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<210> 51163
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<210> 51164
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<210> 51165
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<210> 51168
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<210> 51169
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<210> 51170
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<210> 51171
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<210> 51172
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<400> 51172
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<210> 51173
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cgcugucaag uccaguucu 19

<210> 51174
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<210> 51175
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<210> 51176
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<210> 51177
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<210> 51178
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<210> 51179
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<400> 51179
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<210> 51180
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<210> 51181
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<210> 51182
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<210> 51183
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<210> 51184
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<210> 51185
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<210> 51186
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<210> 51187
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<210> 51188
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<210> 51190
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<220>
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<210> 51192
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<210> 51193
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