SEQUENCE LISTING

<110> WAVE LIFE SCIENCES LTD.

<120> OLIGONUCLEOTIDE COMPOSITIONS AND METHODS THEREOF

<130> 2010581-0228

<140> PCT/US2016/043542
<141> 2016-07-22

<150> 62/331,960
<151> 2016-05-04

<150> 62/236,847
<151> 2015-10-02

<150> 62/195,779
<151> 2015-07-22

<160> 1565

<170> PatentIn version 3.5

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oligonucleotide

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oligonucleotide

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oligonucleotide

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oligonucleotide

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oligonucleotide

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<210> 644
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oligonucleotide

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<210> 646
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oligonucleotide

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<210> 650

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oligonucleotide

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<210> 654
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oligonucleotide

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<210> 656
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oligonucleotide

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oligonucleotide

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oligonucleotide

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<210> 659
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oligonucleotide

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<210> 660
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<210> 661
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<210> 662
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<220>
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<210> 663
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<220>
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<400> 663
tgagatgcct ggctgccata 20

<210> 664
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<220>
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<400> 664
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<210> 665
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<210> 666
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<210> 667
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 667
tagccattgc agctgctcac 20

<210> 668
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<400> 668
tagccattgc agctgctcac 20

<210> 669
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<212> RNA
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<220>
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<210> 670
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<220>
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<210> 671
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<220>
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<210> 672
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<220>
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<210> 673
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<210> 674
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<210> 675
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<210> 676
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<210> 677
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<210> 678
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<210> 679
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<212> DNA
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<220>
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<210> 680
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 680
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<210> 681
<211> 20
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 681
ugcagaauga aggaacugga 20

<210> 682
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<213> Artificial Sequence

<220>
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oligonucleotide

<400> 682
tgagatgcct ggctgccata 20

<210> 683
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<213> Artificial Sequence

<220>
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oligonucleotide

<400> 683
tgagatgcct ggctgccata 20

<210> 684
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oligonucleotide

<400> 684
tgagatgcct ggctgccata 20

<210> 685
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oligonucleotide

<400> 685
tgagatgcct ggctgccata 20

<210> 686
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<212> DNA
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oligonucleotide

<400> 686
tgagatgcct ggctgccata 20

<210> 687
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 687
uauggcagcc aggcaucuca 20

<210> 688
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<210> 689
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

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<210> 690
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<210> 691
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<220>
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<210> 692
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<212> DNA
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<220>
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oligonucleotide

<400> 692
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<210> 693
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<220>
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oligonucleotide

<400> 693
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<210> 694
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<212> DNA
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<220>
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oligonucleotide

<400> 694
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<210> 695
<211> 20
<212> DNA
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<220>
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oligonucleotide

<400> 695
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<210> 696
<211> 20
<212> DNA
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<220>
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oligonucleotide

<400> 696
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<210> 697
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<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 697
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<210> 698
<211> 20
<212> DNA
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<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 698
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<210> 699
<211> 20
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<220>
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<210> 700
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<210> 701
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 701
tgagatgcct ggctgccata 20

<210> 702
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 702
tagccattgc agctgctcac 20

<210> 703
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<212> DNA
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oligonucleotide

<400> 703
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<210> 704
<211> 20
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<220>
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oligonucleotide

<400> 704
tgagatgcct ggctgccata 20

<210> 705
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<212> DNA
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oligonucleotide

<400> 705
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<210> 706
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<212> DNA
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<220>
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oligonucleotide

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

<400> 706
uagccattgc agctgctcac 20

<210> 707
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oligonucleotide

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

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<210> 708
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oligonucleotide

<400> 708
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<210> 709
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oligonucleotide

<400> 709
attaataaat tgtcatcacc 20

<210> 710
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<213> Artificial Sequence

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oligonucleotide

<400> 710
ggugcgaagc agacugaggc 20

<210> 711
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<212> RNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 711
ugcagaauga aggaacugga 20

<210> 712
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<212> RNA

<213> Artificial Sequence

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

<400> 712
uauggcagcc aggcaucuca 20

<210> 713
<211> 20
<212> RNA
<213> Artificial Sequence

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

<400> 713
gugagcagcu gcaauggcua 20

<210> 714
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<220>
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oligonucleotide

<400> 714
tagccattgc agctgctcac 20

<210> 715
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<220>
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oligonucleotide

<400> 715
gugagcggcu gcaauggcua 20

<210> 716
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<212> RNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 716
gugagcagcu gcgauggcua 20

<210> 717
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<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 717
ggugaugaca auuuauuaau 20

<210> 718
<211> 20
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<220>
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oligonucleotide

<400> 718
ggugauggca auuuauuaau 20

<210> 719
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oligonucleotide

<400> 719
tgagatgcct ggctgccata 20

<210> 720
<211> 20
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<220>
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oligonucleotide

<400> 720
tgagatgcct ggctgccata 20

<210> 721
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oligonucleotide

<400> 721
tgagatgcct ggctgccata 20

<210> 722
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<220>
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oligonucleotide

<400> 722
tagccattgc agctgctcac 20

<210> 723
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<210> 724
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<220>
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<400> 724
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<210> 725
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<210> 726
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<210> 727
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tagccattgc agctgctcac 20

<210> 728
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<400> 728
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<210> 729
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<220>
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<400> 729
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<210> 730
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<400> 730
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<210> 731
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<400> 731
tagccattgc agctgctcac 20

<210> 732
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 732
tagccattgc agctgctcac 20

<210> 733
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<212> DNA
<213> Artificial Sequence

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<400> 733
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<210> 734
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<400> 734
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<210> 735
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<400> 735
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<210> 736
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<212> DNA
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<220>
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<400> 736
tagccattgc agctgctcac 20

<210> 737
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 737
tagccattgc agctgctcac 20

<210> 738
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<220>
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oligonucleotide

<400> 738
tagccattgc agctgctcac 20

<210> 739
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<220>
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oligonucleotide

<400> 739
tagccattgc agctgctcac 20

<210> 740
<211> 20
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<220>
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oligonucleotide

<400> 740
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<210> 741
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oligonucleotide

<400> 741
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<210> 742
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oligonucleotide

<400> 742
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<210> 743
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oligonucleotide

<400> 743
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<210> 744
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<220>
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<400> 744
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<210> 745
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<220>
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<400> 745
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<210> 746
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<220>
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<400> 746
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<210> 747
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<220>
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<400> 747
attaataaat tgtcatcacc 20

<210> 748
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<220>
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<400> 748
attaataaat tgtcatcacc 20

<210> 749
<211> 20
<212> DNA
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oligonucleotide

<400> 749
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<210> 750
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<210> 751
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<210> 752
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oligonucleotide

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<210> 762
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oligonucleotide

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oligonucleotide

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<210> 764
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oligonucleotide

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<210> 767
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<210> 768
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<210> 769
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<210> 770
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oligonucleotide

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oligonucleotide

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oligonucleotide

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<210> 774

<211> 20
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oligonucleotide

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<210> 775
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<210> 776
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<210> 777
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oligonucleotide

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<210> 778
<211> 20
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oligonucleotide

<400> 778
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<210> 779
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oligonucleotide

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<210> 780
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<210> 781
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<220>
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<210> 782
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<220>
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oligonucleotide

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<210> 783
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<220>
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oligonucleotide

<400> 783
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<210> 784
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oligonucleotide

<220>
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<210> 785
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<210> 786
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<220>
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<400> 786
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<210> 787
<211> 20
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<400> 787
cucuuactgt gctgtggaca 20

<210> 788
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oligonucleotide

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<210> 789
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<210> 790
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<210> 791
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<210> 792
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<212> RNA
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<220>
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<400> 792
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<210> 793
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<400> 793
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<210> 794
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oligonucleotide

<400> 794
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<210> 795
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oligonucleotide

<400> 795
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<210> 796
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<212> RNA
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<400> 796
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<210> 797
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<212> RNA
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oligonucleotide

<400> 797
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<210> 798

<211> 25
<212> RNA
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<210> 799
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<400> 799
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<210> 800
<211> 20
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<220>
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<400> 800
ggugauggca auuuauuaau 20

<210> 801
<211> 20
<212> DNA
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<220>
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<400> 801
attaataaat tgtcatcacc 20

<210> 802
<211> 20
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<220>
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<400> 802
attaataaat tgtcatcacc 20

<210> 803
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<212> DNA
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oligonucleotide

<400> 803
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<210> 804
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oligonucleotide

<400> 804
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<210> 805
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oligonucleotide

<400> 805
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<210> 806
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<220>
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oligonucleotide

<400> 806
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<210> 807
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oligonucleotide

<400> 807
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<210> 808
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oligonucleotide

<400> 808
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<210> 809
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<220>
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<400> 809
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<210> 810
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<220>
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<400> 810
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<210> 811
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<220>
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<400> 811
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<210> 812
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<220>
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<400> 812
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<210> 813
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<220>
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<400> 813

caagggcaca gacttccaaa 20

<210> 814
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<400> 814
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<210> 815
<211> 20
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<220>
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<400> 815
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<210> 816
<211> 20
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<400> 816
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<210> 817
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<400> 817
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<210> 818
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<220>
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<400> 818
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<210> 819
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<220>
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<210> 820
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<212> RNA
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<220>
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<210> 821
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<220>
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<400> 821
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<210> 822
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<220>
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<210> 823
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<210> 824
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oligonucleotide

<220>
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oligonucleotide

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<210> 825
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<400> 825
caagggcaca gacttccaaa 20

<210> 826
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oligonucleotide

<400> 826
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<210> 827
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oligonucleotide

<400> 827
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<210> 828
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oligonucleotide

<400> 828
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<210> 829
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<212> RNA
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<400> 829
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<210> 830
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<210> 831
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<210> 832
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<400> 832
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<210> 833
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<210> 834
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oligonucleotide

<400> 834
gggcacaagg gcacagacuu 20

<210> 835
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oligonucleotide

<400> 835
ggcacaaggg cacagacuuc 20

<210> 836
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<212> RNA
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oligonucleotide

<400> 836
gcacaagggc acagacuucc 20

<210> 837
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oligonucleotide

<400> 837
cacaagggca cagacuucca 20

<210> 838
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<220>
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oligonucleotide

<220>
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oligonucleotide

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<210> 839
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oligonucleotide

<400> 839
caagggcaca gacttccaaa 20

<210> 840
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<220>
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oligonucleotide

<400> 840
gggcacaagg gcacagactt 20

<210> 841
<211> 20
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<213> Artificial Sequence

<220>
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oligonucleotide

<400> 841
ggcacaaggg cacagacttc 20

<210> 842
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 842
gcacaagggc acagacttcc 20

<210> 843
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 843
cacaagggca cagacttcca 20

<210> 844
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 844
acaagggcac agacttccaa 20

<210> 845
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 845
caagggcaca gacttccaaa 20

<210> 846
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<213> Artificial Sequence

<220>
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<400> 846
uuuggaaguc ugcgcccuug ugccc 25

<210> 847
<211> 25
<212> RNA
<213> Artificial Sequence

<220>
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<400> 847
uuuggaaguc ugugcccuug ugccc 25

<210> 848
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 848
gagcagctgc aacctggcaa 20

<210> 849
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 849

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<210> 850
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<220>
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<400> 850
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<210> 851
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<212> RNA
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<220>
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<400> 851
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<210> 852
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<400> 852
gagcagctgc aacctggcaa 20

<210> 853
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<400> 853
agcagctgca acctggcaac 20

<210> 854
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<400> 854
gcagctgcaa cctggcaaca 20

<210> 855
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<400> 855
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<210> 856
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<220>
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<400> 856
agctgcaacc tggcaacaac 20

<210> 857
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<400> 857
gctgcaacct ggcaacaacc 20

<210> 858
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<400> 858
ccuccugcag gcuggguguu ggccc 25

<210> 859
<211> 25
<212> RNA
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<400> 859
ccuccugcag gcuggcuguu ggccc 25

<210> 860
<211> 20
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<213> Artificial Sequence

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<400> 860
gggccaacag ccagcctgca 20

<210> 861
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<220>
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<400> 861
ggccaacagc cagcctgcag 20

<210> 862
<211> 20
<212> DNA
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<220>
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<400> 862
gccaacagcc agcctgcagg 20

<210> 863
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<220>
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<400> 863
ccaacagcca gcctgcagga 20

<210> 864
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<210> 898
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<210> 899
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<210> 943
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<210> 944
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<210> 958
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<210> 959
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<210> 961
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<210> 962
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<210> 963
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<400> 963
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<400> 964
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<210> 965
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<400> 965
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<210> 966
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<400> 966
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<210> 967
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<400> 967
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<210> 968
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<400> 968
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<210> 969
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<400> 969
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<210> 1006
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<210> 1008
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oligonucleotide

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<210> 1055
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<210> 1056
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<210> 1057
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<210> 1058

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<210> 1059
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oligonucleotide

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oligonucleotide

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<210> 1060
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oligonucleotide

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oligonucleotide

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oligonucleotide

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oligonucleotide

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<210> 1067
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<210> 1174
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<210> 1175
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oligonucleotide

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<210> 1192
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<210> 1193
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<210> 1194
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oligonucleotide

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<210> 1195
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<210> 1197
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<210> 1198
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<400> 1198
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<210> 1199
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<210> 1200
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<210> 1201
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oligonucleotide

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<210> 1202
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<220>
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oligonucleotide

<400> 1202
gguuguugcc agguuacagc ugcuc 25

<210> 1203
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<220>
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<400> 1203
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<210> 1204
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<210> 1205
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<210> 1206
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<210> 1207
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<210> 1208
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<400> 1209
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<210> 1210
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<210> 1211
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oligonucleotide

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<210> 1212
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<400> 1212
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<210> 1213
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<210> 1214
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<210> 1215
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<220>
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<400> 1215
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<210> 1216
<211> 20
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<220>
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<400> 1216
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<210> 1217
<211> 20
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oligonucleotide

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oligonucleotide

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<210> 1219
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oligonucleotide

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<210> 1220
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<210> 1221
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<210> 1223
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<210> 1224
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<210> 1225
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<210> 1226
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<210> 1228
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oligonucleotide

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<400> 1229
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<400> 1230
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<210> 1231
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oligonucleotide

<400> 1231
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<210> 1232
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oligonucleotide

<400> 1232
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<210> 1233
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oligonucleotide

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<210> 1234
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oligonucleotide

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<210> 1235
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oligonucleotide

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oligonucleotide

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oligonucleotide

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oligonucleotide

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<210> 1239
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<210> 1240
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oligonucleotide

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<210> 1241
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oligonucleotide

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<210> 1242
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oligonucleotide

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<210> 1243
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<210> 1244
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gcugcaacct ggcaacaacc 20

<210> 1245
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<210> 1246
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<400> 1246
gagcagctgc aaccuggcaa 20

<210> 1247
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<220>
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<400> 1247
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<210> 1248
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<400> 1248
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<210> 1249
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gcagctgcaa ccuggcaaca 20

<210> 1250
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<400> 1250
gcagctgcaa ccuggcaaca 20

<210> 1251
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oligonucleotide

<400> 1251
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<210> 1252
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oligonucleotide

<400> 1252
agcagctgca acctggcaac 20

<210> 1253
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oligonucleotide

<400> 1253
gcagctgcaa cctggcaaca 20

<210> 1254
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oligonucleotide

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<210> 1255
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oligonucleotide

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oligonucleotide

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<210> 1256
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oligonucleotide

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oligonucleotide

<400> 1256
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<210> 1257
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oligonucleotide

<400> 1257
gggccaacag ccagcctgca 20

<210> 1258
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<220>
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oligonucleotide

<400> 1258
ggccaacagc cagcctgcag 20

<210> 1259
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<212> DNA
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<220>
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oligonucleotide

<400> 1259
gccaacagcc agcctgcagg 20

<210> 1260
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<220>
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oligonucleotide

<400> 1260
ccaacagcca gcctgcagga 20

<210> 1261
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<212> DNA
<213> Artificial Sequence

<220>
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<400> 1261
caacagccag cctgcaggag 20

<210> 1262
<211> 20
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<220>
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<400> 1262
aacagccagc ctgcaggagg 20

<210> 1263
<211> 20
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<220>
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<400> 1263
gggccaacag ccagcctgca 20

<210> 1264
<211> 20
<212> DNA
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<220>
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<400> 1264
ggccaacagc cagcctgcag 20

<210> 1265
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<220>
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<400> 1265
gccaacagcc agcctgcagg 20

<210> 1266

<211> 20
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<220>
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oligonucleotide

<400> 1266
ccaacagcca gcctgcagga 20

<210> 1267
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<220>
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oligonucleotide

<400> 1267
caacagccag cctgcaggag 20

<210> 1268
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oligonucleotide

<400> 1268
aacagccagc ctgcaggagg 20

<210> 1269
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<220>
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oligonucleotide

<400> 1269
gggccaacag ccagccugca 20

<210> 1270
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<212> RNA
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<220>
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oligonucleotide

<400> 1270
ggccaacagc cagccugcag 20

<210> 1271
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<220>
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oligonucleotide

<400> 1271
gccaacagcc agcctgcagg 20

<210> 1272
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oligonucleotide

<400> 1272
ccaacagcca gcctgcagga 20

<210> 1273
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<220>
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oligonucleotide

<400> 1273
caacagccag cctgcaggag 20

<210> 1274
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<220>
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oligonucleotide

<400> 1274
aacagccagc ctgcaggagg 20

<210> 1275
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<220>
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oligonucleotide

<400> 1275
gggccaacag ccagccugca 20

<210> 1276
<211> 20
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<220>
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oligonucleotide

<400> 1276
gggccaacag ccagccugca 20

<210> 1277
<211> 20
<212> RNA
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1277
ggccaacagc cagccugcag 20

<210> 1278
<211> 20
<212> RNA
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<220>
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<400> 1278
ggccaacagc cagccugcag 20

<210> 1279
<211> 20
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<220>
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<400> 1279
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<210> 1313
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<210> 1314

<211> 20
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<400> 1315
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<210> 1316
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<400> 1316
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<210> 1317
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<400> 1317
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<210> 1322
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<220>
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<210> 1323
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<400> 1323
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<210> 1324
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<210> 1325
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<210> 1326
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<210> 1327
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<210> 1328
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<210> 1329
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<210> 1330
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<400> 1333
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<210> 1334
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<210> 1337
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<210> 1338
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<210> 1339
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<210> 1346
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<210> 1347
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<210> 1348
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<210> 1349
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<210> 1355
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<210> 1356
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oligonucleotide

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<210> 1358
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oligonucleotide

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<210> 1359
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<210> 1362
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<210> 1363
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oligonucleotide

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<210> 1368
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<210> 1372
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<210> 1376
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<210> 1377
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<210> 1385
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<210> 1548
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<210> 1549
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His His His His His His
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<210> 1554
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<400> 1556
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<400> 1558
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<400> 1564
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