121301-03020_SL
SEQUENCE LISTING

<110> ALNYLAM PHARMACEUTICALS, INC.

<120> TRANSTHYRETIN (TTR) IRNA COMPOSITIONS AND METHODS OF USE
THEREOF FOR TREATING OR PREVENTING TTR-ASSOCIATED DISEASES

<130> 121301-03020

<140>
<141>

<150> 62/287,518
<151> 2016-01-27

<150> 62/199,563
<151> 2015-07-31

<160> 262

<170> PatentIn version 3.5

<210> 1
<211> 938
<212> DNA
<213> Homo sapiens

<400> 1
gttgactaag tcaataatca gaatcagcag gtttgcagtc agattggcag ggataagcag 60

cctagctcag gagaagtgag tataaaagcc ccaggctggg agcagccatc acagaagtcc 120

actcattctt ggcaggatgg cttctcatcg tctgctcctc ctctgccttg ctggactggt 180

atttgtgtct gaggctggcc ctacgggcac cggtgaatcc aagtgtcctc tgatggtcaa 240

agttctagat gctgtccgag gcagtcctgc catcaatgtg gccgtgcatg tgttcagaaa 300

ggctgctgat gacacctggg agccatttgc ctctgggaaa accagtgagt ctggagagct 360

gcatgggctc acaactgagg aggaatttgt agaagggata tacaaagtgg aaatagacac 420

caaatcttac tggaaggcac ttggcatctc cccattccat gagcatgcag aggtggtatt 480

cacagccaac gactccggcc cccgccgcta caccattgcc gccctgctga gcccctactc 540

ctattccacc acggctgtcg tcaccaatcc caaggaatga gggacttctc ctccagtgga 600

cctgaaggac gagggatggg atttcatgta accaagagta ttccattttt actaaagcag 660

tgttttcacc tcatatgcta tgttagaagt ccaggcagag acaataaaac attcctgtga 720

aaggcacttt tcattccact ttaacttgat tttttaaatt cccttattgt cccttccaaa 780

aaaaagagaa tcaaaatttt acaaagaatc aaaggaattc tagaaagtat ctgggcagaa 840

cgctaggaga gatccaaatt tccattgtct tgcaagcaaa gcacgtatta aatatgatct 900

gcagccatta aaaagacaca ttctgtaaaa aaaaaaaa 938

<210> 2
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 2
ugggauuuca uguaaccaag a 21

<210> 3
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 3
ucuugguuac augaaauccc auc 23

<210> 4
<211> 23
<212> DNA
<213> Artificial Sequence

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

<400> 4
gatgggattt catgtaacca aga 23

<210> 5
<211> 650
<212> DNA
<213> Homo sapiens

<400> 5
acagaagtcc actcattctt ggcaggatgg cttctcatcg tctgctcctc ctctgccttg 60

ctggactggt atttgtgtct gaggctggcc ctacgggcac cggtgaatcc aagtgtcctc 120

tgatggtcaa agttctagat gctgtccgag gcagtcctgc catcaatgtg gccgtgcatg 180

tgttcagaaa ggctgctgat gacacctggg agccatttgc ctctgggaaa accagtgagt 240

ctggagagct gcatgggctc acaactgagg aggaatttgt agaagggata tacaaagtgg 300

aaatagacac caaatcttac tggaaggcac ttggcatctc cccattccat gagcatgcag 360

aggtggtatt cacagccaac gactccggcc cccgccgcta caccattgcc gccctgctga 420

gcccctactc ctattccacc acggctgtcg tcaccaatcc caaggaatga gggacttctc 480

ctccagtgga cctgaaggac gagggatggg atttcatgta accaagagta ttccattttt 540

actaaagcag tgttttcacc tcatatgcta tgttagaagt ccaggcagag acaataaaac 600

attcctgtga aaggcacttt tcattccaaa aaaaaaaaaa aaaaaaaaaa 650

<210> 6
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 6
ucuugguuac augaaauccc auc 23

<210> 7
<211> 23

<212> RNA
<213> Artificial Sequence

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

<400> 7
ucuugguuac augaaauccc auc 23

<210> 8
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 8
ucuugguuac augaaauccc auc 23

<210> 9
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 9
ucuugguuac augaaauccc auc 23

<210> 10
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 10
ugggauuuca uguaaccaag a 21

<210> 11
<211> 16
<212> PRT
<213> Unknown

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

<400> 11
Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
1 5 10 15

<210> 12
<211> 11
<212> PRT
<213> Unknown

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

<400> 12
Ala Ala Leu Leu Pro Val Leu Leu Ala Ala Pro
1 5 10

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

<400> 13
Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln
1 5 10

<210> 14
<211> 16
<212> PRT
<213> Drosophila sp.

<400> 14
Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
1 5 10 15

<210> 15
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 15
ugggauuuca uguaaccaag a 21

<210> 16
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 16
ugggauuuca uguaaccaag a 21

<210> 17
<211> 21
<212> DNA
<213> Artificial Sequence

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

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

<400> 17
ugggauuuca tguaacaaag a 21

<210> 18
<211> 21
<212> RNA

<213> Artificial Sequence

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

<400> 18
ugggauuuca uguaaccaag a 21

<210> 19
<211> 21
<212> DNA
<213> Artificial Sequence

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

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

<400> 19
ugggauuuca tguaacaaag a 21

<210> 20
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 20
ugggauuuca uguaaccaag a 21

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

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

<400> 21
ugggauuuca uguaaccaag a 21

<210> 22
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 22
ugggauuuca uguaaccaag a 21

<210> 23
<211> 21
<212> DNA
<213> Artificial Sequence

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

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

<220>
<221> modified_base
<222> (17)..(17)
<223> 2-hydroxymethyl-tetrahydrofurane-4-methoxy-3-phosphate
(abasic 2'-OMe furanose) nucleotide

<400> 23
ugggauuuca tguaacnaag a 21

<210> 24
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 24
ugggauuuca uguaaccaag a 21

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

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

<400> 25
ugggauuuca uguaaccaag a 21

<210> 26
<211> 21
<212> DNA
<213> Artificial Sequence

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

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

<400> 26
ugggauuuca tguaacaaag a 21

<210> 27
<211> 21
<212> DNA
<213> Artificial Sequence

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

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

oligonucleotide

<400> 27
ugggauuuca tguaacaaag a 21

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

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

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

<400> 28
ugggauuuca tguaacaaag a 21

<210> 29
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 29
ucuugguuac augaaauccc auc 23

<210> 30
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 30
ucuugguuac augaaauccc auc 23

<210> 31
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 31
ucuugguuac augaaauccc auc 23

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

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

<400> 32
ucuugguuac augaaauccc auc 23

<210> 33
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 33
ucuugguuac augaaauccc auc 23

<210> 34
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 34
ucuugguuac augaaauccc auc 23

<210> 35
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 35
ucuugguuac augaaauccc auc 23

<210> 36
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 36
ucuugguuac augaaauccc auc 23

<210> 37
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 37
ucuugguuac augaaauccc auc 23

<210> 38
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 38
ucuugguuac augaaauccc auc 23

<210> 39
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 39
ucuugguuac augaaauccc auc 23

<210> 40
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 40
ucuugguuac augaaauccc auc 23

<210> 41
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 41
ucuugguuac augaaauccc auc 23

<210> 42
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 42
ucuugguuac augaaauccc auc 23

<210> 43
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 43
ugggauuuca uguaaccaag a 21

<210> 44
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 44
ugggauuuca uguaaccaag a 21

<210> 45
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 45
ugggauuuca uguaaccaag a 21

<210> 46
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 46
ugggauuuca uguaaccaag a 21

<210> 47
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 47
ucuugguuac augaaauccc auc 23

<210> 48
<211> 23

<212> RNA
<213> Artificial Sequence

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

<400> 48
ucuugguuac augaaauccc auc 23

<210> 49
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 49
ucuugguuac augaaauccc auc 23

<210> 50
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 50
ucuugguuac augaaauccc auc 23

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

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

<400> 51
ugggauuuca uguaaccaag a 21

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

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

<400> 52
ugggauuuca uguaaccaag a 21

<210> 53
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 53
ugggauuuca uguaaccaag a 21

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

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

<400> 54
ugggauuuca uguaaccaag a 21

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

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

oligonucleotide

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

<400> 55
ugggauuuca tguaacaaag a 21

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

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

<400> 56
ugggauuuca uguaaccaag a 21

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

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

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

<400> 57
ugggauuuca tguaacaaag a 21

<210> 58
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 58
ugggauuuca uguaaccaag a 21

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

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

<400> 59
uaggauuuca uguaaccaag a 21

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

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

<400> 60
ugggauuuca uguaaccaag a 21

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

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

<400> 61
ugggauuuca uguaaccaag a 21

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

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

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

<400> 62
ugggauuuca tguaacaaag a 21

<210> 63
<211> 19
<212> RNA
<213> Artificial Sequence

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

<400> 63
ggauuucaug uaaccaaga 19

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

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

<400> 64
ugggauuuca uguaaccaag a 21

<210> 65
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 65
ugggauuuca uguaaccaag a 21

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

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

<400> 66
ugggauuuca uguaaccaag a 21

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

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

<400> 67
ugggauuuca uguaaccaag a 21

<210> 68
<211> 19
<212> RNA
<213> Artificial Sequence

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

<400> 68
ggauuucaug uaaccaaga 19

<210> 69
<211> 19
<212> RNA
<213> Artificial Sequence

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

<400> 69
ggauuucaug uaaccaaga 19

<210> 70
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 70
ugggauuuca uguaaccaag a 21

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

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

<400> 71
ggauuucaug uaaccaaga 19

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

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

<400> 72
ugggauuuca uguaaccaag a 21

<210> 73

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

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

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

<400> 73
ugggauuuca tguaacaaag a 21

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

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

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

<220>
<221> modified_base
<222> (17)..(17)
<223> 2-hydroxymethyl-tetrahydrofurane-4-methoxy-3-phosphate
(abasic 2'-OMe furanose) nucleotide

<400> 74
ugggauuuca tguaacnaag a 21

<210> 75
<211> 21
<212> DNA
<213> Artificial Sequence

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

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

<220>
<221> modified_base
<222> (17)..(17)
<223> 2-hydroxymethyl-tetrahydrofurane-4-methoxy-3-phosphate
(abasic 2'-OMe furanose) nucleotide

<400> 75
ugggauuuca tguaacnaag a 21

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

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

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

<400> 76
ugggauuuca tguaacaaag a 21

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

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

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

<400> 77
ugggauuuca tguaacaaag a 21

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

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

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

<220>
<221> modified_base
<222> (17)..(17)
<223> 2-hydroxymethyl-tetrahydrofurane-4-methoxy-3-phosphate
(abasic 2'-OMe furanose) nucleotide

<400> 78
ugggauuuca tguaacnaag a 21

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

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

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

<400> 79
ugggauuuca tguaacaaag a 21

<210> 80
<211> 19
<212> DNA
<213> Artificial Sequence

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

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

<400> 80
ggauuucatg uaacaaaga 19

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

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

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

<220>
<221> modified_base
<222> (17)..(17)
<223> 2-hydroxymethyl-tetrahydrofurane-4-methoxy-3-phosphate
(abasic 2'-OMe furanose) nucleotide

<400> 81
ugggauuuca tguaacnaag a 21

<210> 82
<211> 19
<212> DNA
<213> Artificial Sequence

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

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

<400> 82
ggauuucatg uaacaaaga 19

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

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

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

<400> 83
ugggauuuca tguaaccaag a 21

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

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

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

<400> 84
ugggauuuca tguaaccaag a 21

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

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

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

<400> 85
ugggauuuca tguaaccaag a 21

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

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

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

<400> 86
ugggauuuca tguaaccaag a 21

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

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

<400> 87
ugggauuuca uguaaccaag a 21

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

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

<400> 88

ugggauuuca uguaaccaag a 21

<210> 89
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 89
ugggauuuca uguaaccaag a 21

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

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

<400> 90
ugggauuuca uguaaccaag a 21

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

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

<400> 91
ugggauuuca uguaaccaag a 21

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

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 92
ugggauuuca uguaaccaag a 21

<210> 93
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 93
ucuugguuac augaaauccc auc 23

<210> 94
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 94
ucuugguuac augaaauccc auc 23

<210> 95
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 95
ucuugguuac augaaauccc auc 23

<210> 96
<211> 23

<212> RNA
<213> Artificial Sequence

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

<400> 96
ucuugguuac augaaauccc auc 23

<210> 97
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 97
ucuugguuac augaaauccc auc 23

<210> 98
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 98
ucuugguuac augaaauccc auc 23

<210> 99
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 99
ucuugguuac augaaauccc auc 23

<210> 100
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 100
ucuugguuac augaaauccc auc 23

<210> 101
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 101
ucuugguuac augaaauccu auu 23

<210> 102
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 102
ucuugguuac augaaauccc auc 23

<210> 103
<211> 23
<212> RNA
<213> Artificial Sequence

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

oligonucleotide

<400> 103
ucuugguuac augaaauccc auc 23

<210> 104
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 104
ucuugguuac augaaauccc auc 23

<210> 105
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 105
ucuugguuac augaaauccc a 21

<210> 106
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 106
ucuugguuac augaaauccc auc 23

<210> 107
<211> 23
<212> RNA

<213> Artificial Sequence

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

<400> 107
ucuugguuac augaaauccc auc 23

<210> 108
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 108
ucuugguuac augaaauccc auc 23

<210> 109
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 109
ucuugguuac augaaauccc auc 23

<210> 110
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 110
ucuugguuac augaaauccu a 21

<210> 111
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 111
ucuugguuac augaaauccc a 21

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

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

<400> 112
ucuugguuac augaaauccc auc 23

<210> 113
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 113
ucuugguuac augaaauccc a 21

<210> 114
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 114
ucuugguuac augaaauccc auc 23

<210> 115
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 115
ucuugguuac augaaauccc auc 23

<210> 116
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 116
ucuugguuac augaaauccc auc 23

<210> 117
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 117
ucuugguuac augaaauccc auc 23

<210> 118
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 118
ucuugguuac augaaauccc auc 23

<210> 119
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 119
ucuugguuac augaaauccc auc 23

<210> 120
<211> 23
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

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

<400> 120
ucuugguuac augaaauccc auc 23

<210> 121
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 121
ucuugguuac augaaauccc auc 23

<210> 122
<211> 21
<212> DNA
<213> Artificial Sequence

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

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

<400> 122
ucuugguuac augaaauccc a 21

<210> 123
<211> 23
<212> RNA

<213> Artificial Sequence

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

<400> 123
ucuugguuac augaaauccc auc 23

<210> 124
<211> 21
<212> DNA
<213> Artificial Sequence

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

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

<400> 124
ucuugguuac augaaauccc a 21

<210> 125
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 125
ucuugguuac augaaauccc auc 23

<210> 126
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 126
ucuugguuac augaaauccc auc 23

<210> 127
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 127
ucuugguuac augaaauccc auc 23

<210> 128
<211> 23
<212> DNA
<213> Artificial Sequence

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

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

<400> 128
ucuugguuac augaaauccc auc 23

<210> 129
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 129
ucuugguuac augaaauccc auc 23

<210> 130
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 130
ucuugguuac augaaauccc auc 23

<210> 131
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 131
ucuugguuac augaaauccc auc 23

<210> 132
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 132
ucuugguuac augaaauccc auc 23

<210> 133

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

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

<400> 133
ucuugguuac augaaauccc auc 23

<210> 134
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 134
ucuugguuac augaaauccc auc 23

<210> 135
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 135
augggauuuc auguaaccaa a 21

<210> 136
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 136

augggauuuc auguaaccaa a 21

<210> 137
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 137
augggauuuc auguaaccaa a 21

<210> 138
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 138
ugggauuuca uguaaccaag a 21

<210> 139
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 139
ugggauuuca uguaaccaag a 21

<210> 140
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 140
ugggauuuca uguaaccaag a 21

<210> 141
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 141
ugggauuuca uguaaccaag a 21

<210> 142
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 142
uuucauguaa ccaagaguau u 21

<210> 143
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 143
uuucauguaa ccaagaguau u 21

<210> 144
<211> 21

<212> RNA
<213> Artificial Sequence

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

<400> 144
uuucauguaa ccaagaguau u 21

<210> 145
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 145
uguaaccaag aguauuccau u 21

<210> 146
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 146
uguaaccaag aguauuccau u 21

<210> 147
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 147
uguaaccaag aguauuccau u 21

<210> 148
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 148
aaccaagagu auuccauuuu u 21

<210> 149
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 149
aaccaagagu auuccauuuu u 21

<210> 150
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 150
aaccaagagu auuccauuuu u 21

<210> 151
<211> 21
<212> RNA
<213> Artificial Sequence

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

oligonucleotide

<400> 151
uuuuuacuaa agcaguguuu u 21

<210> 152
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 152
uuuuuacuaa agcaguguuu u 21

<210> 153
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 153
uuuuuacuaa agcaguguuu u 21

<210> 154
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 154
uuacuaaagc aguguuuuca a 21

<210> 155
<211> 21
<212> RNA

<213> Artificial Sequence

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

<400> 155
cuaaagcagu guuuucaccu a 21

<210> 156
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 156
cuaaagcagu guuuucaccu a 21

<210> 157
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 157
cuaaagcagu guuuucaccu a 21

<210> 158
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 158
ggcagagaca auaaaacauu a 21

<210> 159
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 159
ggcagagaca auaaaacauu a 21

<210> 160
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 160
ggcagagaca auaaaacauu a 21

<210> 161
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 161
cagagacaau aaaacauucc u 21

<210> 162
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 162
cagagacaau aaaacauucc u 21

<210> 163
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 163
cagagacaau aaaacauucc u 21

<210> 164
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 164
caauaaaaca uuccugugaa a 21

<210> 165
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 165
caauaaaaca uuccugugaa a 21

<210> 166
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 166
caauaaaaca uuccugugaa a 21

<210> 167
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 167
uuugguuaca ugaaauccca ucc 23

<210> 168
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 168
uuugguuaca ugaaauccca ucc 23

<210> 169
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 169
uuugguuaca ugaaauccca ucc 23

<210> 170
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 170
ucuugguuac augaaauccc auc 23

<210> 171
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 171
ucuugguuac augaaauccc auc 23

<210> 172
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 172
ucuugguuac augaaauccc auc 23

<210> 173
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 173
ucuugguuac augaaauccc auc 23

<210> 174
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 174
aauacucuug guuacaugaa auc 23

<210> 175
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 175
aauacucuug guuacaugaa auc 23

<210> 176
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 176
aauacucuug guuacaugaa auc 23

<210> 177
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 177
aauggaauac ucuugguuac aug 23

<210> 178
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 178
aauggaauac ucuugguuac aug 23

<210> 179
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 179
aauggaauac ucuugguuac aug 23

<210> 180
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 180
aaaaauggaa uacucuuggu uac 23

<210> 181

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

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

<400> 181
aaaaauggaa uacucuuggu uac 23

<210> 182
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 182
aaaaauggaa uacucuuggu uac 23

<210> 183
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 183
aaaacacugc uuuaguaaaa aug 23

<210> 184
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 184

aaaacacugc uuuaguaaaa aug 23

<210> 185
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 185
aaaacacugc uuuaguaaaa aug 23

<210> 186
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 186
uugaaaacac ugcuuuagua aaa 23

<210> 187
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 187
uaggugaaaa cacugcuuua gua 23

<210> 188
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 188
uaggugaaaa cacugcuuua gua 23

<210> 189
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 189
uaggugaaaa cacugcuuua gua 23

<210> 190
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 190
uaauguuuua uugucucugc cug 23

<210> 191
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 191
uaauguuuua uugucucugc cug 23

<210> 192
<211> 23

<212> RNA
<213> Artificial Sequence

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

<400> 192
uaauguuuua uugucucugc cug 23

<210> 193
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 193
aggaauguuu uauugucucu gcc 23

<210> 194
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 194
aggaauguuu uauugucucu gcc 23

<210> 195
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 195
aggaauguuu uauugucucu gcc 23

<210> 196
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 196
uuucacagga auguuuuauu guc 23

<210> 197
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 197
uuucacagga auguuuuauu guc 23

<210> 198
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 198
uuucacagga auguuuuauu guc 23

<210> 199
<211> 21
<212> RNA
<213> Artificial Sequence

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

oligonucleotide

<400> 199
augggauuuc auguaaccaa a 21

<210> 200
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 200
augggauuuc auguaaccaa a 21

<210> 201
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 201
augggauuuc auguaaccaa a 21

<210> 202
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 202
ugggauuuca uguaaccaag a 21

<210> 203
<211> 21
<212> RNA

<213> Artificial Sequence

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

<400> 203
ugggauuuca uguaaccaag a 21

<210> 204
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 204
ugggauuuca uguaaccaag a 21

<210> 205
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 205
ugggauuuca uguaaccaag a 21

<210> 206
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 206
uuucauguaa ccaagaguau u 21

<210> 207
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 207
uuucauguaa ccaagaguau u 21

<210> 208
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 208
uuucauguaa ccaagaguau u 21

<210> 209
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 209
uguaaccaag aguauuccau u 21

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

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

<400> 210
uguaaccaag aguauuccau u 21

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

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

<400> 211
uguaaccaag aguauuccau u 21

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

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

<400> 212
aaccaagagu auuccauuuu u 21

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

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

<400> 213
aaccaagagu auuccauuuu u 21

<210> 214
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 214
aaccaagagu auuccauuuu u 21

<210> 215
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 215
uuuuuacuaa agcaguguuu u 21

<210> 216
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 216
uuuuuacuaa agcaguguuu u 21

<210> 217
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 217
uuuuuacuaa agcaguguuu u 21

<210> 218
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 218
uuacuaaagc aguguuuuca a 21

<210> 219
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 219
cuaaagcagu guuuucaccu a 21

<210> 220
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 220
cuaaagcagu guuuucaccu a 21

<210> 221
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 221
cuaaagcagu guuuucaccu a 21

<210> 222
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 222
ggcagagaca auaaaacauu a 21

<210> 223
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 223
ggcagagaca auaaaacauu a 21

<210> 224
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 224
ggcagagaca auaaaacauu a 21

<210> 225
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 225
cagagacaau aaaacauucc u 21

<210> 226
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 226
cagagacaau aaaacauucc u 21

<210> 227
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 227
cagagacaau aaaacauucc u 21

<210> 228
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 228
caauaaaaca uuccugugaa a 21

<210> 229

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

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

<400> 229
caauaaaaca uuccugugaa a 21

<210> 230
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 230
caauaaaaca uuccugugaa a 21

<210> 231
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 231
uuugguuaca ugaaauccca ucc 23

<210> 232
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 232

uuugguuaca ugaaauccca ucc 23

<210> 233
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 233
uuugguuaca ugaaauccca ucc 23

<210> 234
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 234
ucuugguuac augaaauccc auc 23

<210> 235
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 235
ucuugguuac augaaauccc auc 23

<210> 236
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 236
ucuugguuac augaaauccc auc 23

<210> 237
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 237
ucuugguuac augaaauccc auc 23

<210> 238
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 238
aauacucuug guuacaugaa auc 23

<210> 239
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 239
aauacucuug guuacaugaa auc 23

<210> 240
<211> 23

<212> RNA
<213> Artificial Sequence

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

<400> 240
aauacucuug guuacaugaa auc 23

<210> 241
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 241
aauggaauac ucuugguuac aug 23

<210> 242
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 242
aauggaauac ucuugguuac aug 23

<210> 243
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 243
aauggaauac ucuugguuac aug 23

<210> 244
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 244
aaaaauggaa uacucuuggu uac 23

<210> 245
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 245
aaaaauggaa uacucuuggu uac 23

<210> 246
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 246
aaaaauggaa uacucuuggu uac 23

<210> 247
<211> 23
<212> RNA
<213> Artificial Sequence

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

oligonucleotide

<400> 247
aaaacacugc uuuaguaaaa aug 23

<210> 248
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 248
aaaacacugc uuuaguaaaa aug 23

<210> 249
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 249
aaaacacugc uuuaguaaaa aug 23

<210> 250
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 250
uugaaaacac ugcuuuagua aaa 23

<210> 251
<211> 23
<212> RNA

<213> Artificial Sequence

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

<400> 251
uaggugaaaa cacugcuuua gua 23

<210> 252
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 252
uaggugaaaa cacugcuuua gua 23

<210> 253
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 253
uaggugaaaa cacugcuuua gua 23

<210> 254
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 254
uaauguuuua uugucucugc cug 23

<210> 255
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 255
uaauguuuua uugucucugc cug 23

<210> 256
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 256
uaauguuuua uugucucugc cug 23

<210> 257
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 257
aggaauguuu uauugucucu gcc 23

<210> 258
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 258
aggaauguuu uauugucucu gcc 23

<210> 259
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 259
aggaauguuu uauugucucu gcc 23

<210> 260
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 260
uuucacagga auguuuuauu guc 23

<210> 261
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 261
uuucacagga auguuuuauu guc 23

<210> 262
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 262
uuucacagga auguuuuauu guc 23