SEQUENCE LISTING

<110> ALNYLAM PHARMACEUTICALS, INC.
TECHNISCHE UNIVERSITAT MUNCHEN

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

<130> 121301-07220

<140>
<141>

<150> 62/655,862
<151> 2018-04-11

<150> 62/646,978
<151> 2018-03-23

<150> 62/553,358
<151> 2017-09-01

<150> 62/486,618
<151> 2017-04-18

<160> 1445

<170> PatentIn version 3.5

<210> 1
<211> 3182
<212> DNA
<213> Hepatitis B virus

<400> 1
aattccacaa ccttccacca aactctgcaa gatcccagag tgagaggcct gtatttccct 60

gctggtggct ccagttcagg aacagtaaac cctgttctga ctactgcctc tcccttatcg 120

tcaatcttct cgaggattgg ggaccctgcg ctgaacatgg agaacatcac atcaggattc 180

ctaggacccc ttctcgtgtt acaggcgggg tttttcttgt tgacaagaat cctcacaata 240

ccgcagagtc tagactcgtg gtggacttct ctcaattttc tagggggaac taccgtgtgt 300

cttggccaaa attcgcagtc cccaacctcc aatcactcac caacctcttg tcctccaact 360

tgtcctggtt atcgctggat gtgtctgcgg cgttttatca tcttcctctt catcctgctg 420

ctatgcctca tcttcttgtt ggttcttctg gactatcaag gtatgttgcc cgtttgtcct 480

ctaattccag gatcctcaac aaccagcacg ggaccatgcc ggacctgcat gactactgct 540

caaggaacct ctatgtatcc ctcctgttgc tgtaccaaac cttcggacgg aaattgcacc 600

tgtattccca tcccatcatc ctgggctttc ggaaaattcc tatgggagtg ggcctcagcc 660

cgtttctcct ggctcagttt actagtgcca tttgttcagt ggttcgtagg gctttccccc 720

actgtttggc tttcagttat atggatgatg tggtattggg ggccaagtct gtacagcatc 780

ttgagtccct ttttaccgct gttaccaatt ttcttttgtc tttgggtata catttaaacc 840

ctaacaaaac aaagagatgg ggttactctc taaattttat gggttatgtc attggatgtt 900

atgggtcctt gccacaagaa cacatcatac aaaaaatcaa agaatgtttt agaaaacttc 960

ctattaacag gcctattgat tggaaagtat gtcaacgaat tgtgggtctt ttgggttttg 1020

ctgccccttt tacacaatgt ggttatcctg cgttgatgcc tttgtatgca tgtattcaat 1080

ctaagcaggc tttcactttc tcgccaactt acaaggcctt tctgtgtaaa caatacctga 1140

acctttaccc cgttgcccgg caacggccag gtctgtgcca agtgtttgct gacgcaaccc 1200

ccactggctg gggcttggtc atgggccatc agcgcatgcg tggaaccttt tcggctcctc 1260

tgccgatcca tactgcggaa ctcctagccg cttgttttgc tcgcagcagg tctggagcaa 1320

acattatcgg gactgataac tctgttgtcc tatcccgcaa atatacatcg tttccatggc 1380

tgctaggctg tgctgccaac tggatcctgc gcgggacgtc ctttgtttac gtcccgtcgg 1440

cgctgaatcc tgcggacgac ccttctcggg gtcgcttggg actctctcgt ccccttctcc 1500

gtctgccgtt ccgaccgacc acggggcgca cctctcttta cgcggactcc ccgtctgtgc 1560

cttctcatct gccggaccgt gtgcacttcg cttcacctct gcacgtcgca tggagaccac 1620

cgtgaacgcc caccaaatat tgcccaaggt cttacataag aggactcttg gactctcagc 1680

aatgtcaacg accgaccttg aggcatactt caaagactgt ttgtttaaag actgggagga 1740

gttgggggag gagattaggt taaaggtctt tgtactagga ggctgtaggc ataaattggt 1800

ctgcgcacca gcaccatgca acttttttcac ctctgcctaa tcatctcttg ttcatgtcct 1860

actgttcaag cctccaagct gtgccttggg tggctttggg gcatggacat cgacccttat 1920

aaagaatttg gagctactgt ggagttactc tcgtttttgc cttctgactt ctttccttca 1980

gtacgagatc ttctagatac cgcctcagct ctgtatcggg aagccttaga gtctcctgag 2040

cattgttcac ctcaccatac tgcactcagg caagcaattc tttgctgggg ggaactaatg 2100

actctagcta cctgggtggg tgttaatttg gaagatccag cgtctagaga cctagtagtc 2160

agttatgtca acactaatat gggcctaaag ttcaggcaac tcttgtggtt tcacatttct 2220

tgtctcactt ttggaagaga aacagttata gagtatttgg tgtctttcgg agtgtggatt 2280

cgcactcctc cagcttatag accaccaaat gcccctatcc tatcaacact tccggagact 2340

actgttgtta gacgacgagg caggtcccct agaagaagaa ctccctcgcc tcgcagacga 2400

aggtctcaat cgccgcgtcg cagaagatct caatctcggg aatctcaatg ttagtattcc 2460

ttggactcat aaggtgggga actttactgg gctttattct tctactgtac ctgtctttaa 2520

tcctcattgg aaaacaccat cttttcctaa tatacattta caccaagaca ttatcaaaaa 2580

atgtgaacag tttgtaggcc cactcacagt taatgagaaa agaagattgc aattgattat 2640

gcctgccagg ttttatccaa aggttaccaa atatttacca ttggataagg gtattaaacc 2700

ttattatcca gaacatctag ttaatcatta cttccaaact agacactatt tacacactct 2760

atggaaggcg ggtatattat ataagagaga aacaacacat agcgcctcat tttgtgggtc 2820

accatattct tgggaacaag atctacagca tggggcagaa tctttccacc agcaatcctc 2880

tgggattctt tcccgaccac cagttggatc cagccttcag agcaaacacc gcaaatccag 2940

attgggactt caatcccaac aaggacacct ggccagacgc caacaaggta ggagctggag 3000

cattcgggct gggtttcacc ccaccgcacg gaggcctttt ggggtggagc cctcaggctc 3060

agggcatact acaaactttg ccagcaaatc cgcctcctgc ctccaccaat cgccagtcag 3120

gaaggcagcc taccccgctg tctccacctt tgagaaacac tcatcctcag gccatgcagt 3180

gg 3182

<210> 2
<211> 3182
<212> DNA
<213> Hepatitis B virus

<400> 2

ccactgcatg gcctgaggat gagtgtttct caaaggtgga gacagcgggg taggctgcct 60

tcctgactgg cgattggtgg aggcaggagg cggatttgct ggcaaagttt gtagtatgcc 120

ctgagcctga gggctccacc ccaaaaggcc tccgtgcggt ggggtgaaac ccagcccgaa 180

tgctccagct cctaccttgt tggcgtctgg ccaggtgtcc ttgttgggat tgaagtccca 240

atctggattt gcggtgtttg ctctgaaggc tggatccaac tggtggtcgg gaaagaatcc 300

cagaggattg ctggtggaaa gattctgccc catgctgtag atcttgttcc caagaatatg 360

gtgacccaca aaatgaggcg ctatgtgttg tttctctctt atataatata cccgccttcc 420

atagagtgtg taaatagtgt ctagtttgga agtaatgatt aactagatgt tctggataat 480

aaggtttaat acccttatcc aatggtaaat atttggtaac ctttggataa aacctggcag 540

gcataatcaa ttgcaatctt cttttctcat taactgtgag tgggcctaca aactgttcac 600

atttttgat aatgtcttgg tgtaaatgta tattaggaaa agatggtgtt ttccaatgag 660

gattaaagac aggtacagta gaagaataaa gcccagtaaa gttccccacc ttatgagtcc 720

aaggaatact aacattgaga ttcccgagat tgagatcttc tgcgacgcgg cgattgagac 780

cttcgtctgc gaggcgaggg agttcttctt ctaggggacc tgcctcgtcg tctaacaaca 840

gtagtctccg gaagtgttga taggataggg gcatttggtg gtctataagc tggaggagtg 900

cgaatccaca ctccgaaaga caccaaatac tctataactg tttctcttcc aaaagtgaga 960

caagaaatgt gaaaccacaa gagttgcctg aactttaggc ccatattagt gttgacataa 1020

ctgactacta ggtctctaga cgctggatct tccaaattaa cacccaccca ggtagctaga 1080

gtcattagtt ccccccagca aagaattgct tgcctgagtg cagtatggtg aggtgaacaa 1140

tgctcaggag actctaaggc ttcccgatac agagctgagg cggtatctag aagatctcgt 1200

actgaaggaa agaagtcaga aggcaaaaac gagagtaact ccacagtagc tccaaattct 1260

ttataagggt cgatgtccat gccccaaagc cacccaaggc acagcttgga ggcttgaaca 1320

gtaggacatg aacaagagat gattaggcag aggtgaaaaa gttgcatggt gctggtgcgc 1380

agaccaattt atgcctacag cctcctagta caaagacctt taacctaatc tcctccccca 1440

actcctccca gtctttaaac aaacagtctt tgaagtatgc ctcaaggtcg gtcgttgaca 1500

ttgctgagag tccaagagtc ctcttatgta agaccttggg caatatttgg tgggcgttca 1560

cggtggtctc catgcgacgt gcagaggtga agcgaagtgc acacggtccg gcagatgaga 1620

aggcacagac ggggagtccg cgtaaagaga ggtgcgcccc gtggtcggtc ggaacggcag 1680

acggagaagg ggacgagaga gtcccaagcg accccgagaa gggtcgtccg caggattcag 1740

cgccgacggg acgtaaacaa aggacgtccc gcgcaggatc cagttggcag cacagcctag 1800

cagccatgga aacgatgtat atttgcggga taggacaaca gagttatcag tcccgataat 1860

gtttgctcca gacctgctgc gagcaaaaca agcggctagg agttccgcag tatggatcgg 1920

cagaggagcc gaaaaggttc cacgcatgcg ctgatggccc atgaccaagc cccagccagt 1980

gggggttgcg tcagcaaaca cttggcacag acctggccgt tgccgggcaa cggggtaaag 2040

gttcaggtat tgtttacaca gaaaggcctt gtaagttggc gagaaagtga aagcctgctt 2100

agattgaata catgcataca aaggcatcaa cgcaggataa ccacattgtg taaaaggggc 2160

agcaaaaccc aaaagaccca caattcgttg acatactttc caatcaatag gcctgttaat 2220

aggaagtttt ctaaaacatt ctttgatttt ttgtatgatg tgttcttgtg gcaaggaccc 2280

ataacatcca atgacataac ccataaaatt tagagagtaa ccccatctct ttgttttgtt 2340

agggtttaaa tgtataccca aagacaaaag aaaattggta acagcggtaa aaaggggactc 2400

aagatgctgt acagacttgg cccccaatac cacatcatcc atataactga aagccaaaca 2460

gtgggggaaa gccctacgaa ccactgaaca aatggcacta gtaaactgag ccaggagaaa 2520

cgggctgagg cccactccca taggaatttt ccgaaagccc aggatgatgg gatgggaata 2580

caggtgcaat ttccgtccga aggtttggta cagcaacagg agggatacat agaggttcct 2640

tgagcagtag tcatgcaggt ccggcatggt cccgtgctgg ttgttgagga tcctggaatt 2700

agaggacaaa cgggcaacat accttgatag tccagaagaa ccaacaagaa gatgaggcat 2760

agcagcagga tgaagaggaa gatgataaaa cgccgcagac acatccagcg ataaccagga 2820

caagttggag gacaagaggt tggtgagtga ttggaggttg gggactgcga attttggcca 2880

agacacacgg tagttccccc tagaaaattg agagaagtcc accacgagtc tagactctgc 2940

ggtattgtga ggattcttgt caacaagaaa aaccccgcct gtaacacgag aaggggtcct 3000

aggaatcctg atgtgatgtt ctccatgttc agcgcagggt ccccaatcct cgagaagatt 3060

gacgataagg gagaggcagt agtcagaaca gggtttactg ttcctgaact ggagccacca 3120

gcagggaaat acaggcctct cactctggga tcttgcagag tttggtggaa ggttgtggaa 3180

tt 3182

<210> 3
<211> 3215
<212> DNA
<213> Hepatitis B virus

<220>
<221> modified_base
<222> (2768)..(2768)
<223> a, c, t, g, unknown or other

<400> 3
ctccaccaca ttccaccaag ctctgctaca ccccagagta aggggcctat actttcctgc 60

tggtggctcc agttccggaa cagtaaaccc tgttccgact actgcctctc ccatatcgtc 120

aatcttctcg aggactgggg accctgcacc gaacatggag aacacaacat caggattcct 180

aggacccctg ctcgtgttac aggcggggtt tttcttgttg acaagaatcc tcacaatacc 240

acagagtcta gactcgtggt ggacttctct caattttcta gggggagcac ccacgtgtcc 300

tggccaaaat tcgcagtccc caacctccaa tcactcacca acctcttgtc ctccaatttg 360

tcctggctat cgctggatgt gtctgcggcg ttttatcata ttcctcttca tcctgctgct 420

atgcctcatc ttcttgttgg ttcttctgga ctaccaaggt atgttgcccg tttgtcctct 480

acttccagga acatcaacta ccagcacggg accatgcaag acctgcacga ttcctgctca 540

aggcacctct atgtttccct cttgttgctg tacaaaacct tcggacggaa actgcacttg 600

tattcccatc ccatcatcct gggctttcgc aagattccta tgggagtggg cctcagtccg 660

tttctcctgg ctcagtttac tagtgccatt tgttcagtgg ttcgtagggc tttcccccac 720

tgtttggctt tcagttatat ggatgatgtg gtattggggg ccaagtctgt acaacatctt 780

gagtcccttt ttaccgctgt taccaatttt cttttgtctt tgggtataca tttgaaccct 840

aataaaacca aacgttgggg ttactccctt aacttcatgg gatatgtaat tggaagttgg 900

ggtactttac cgcaagacca tattgtacta aaaatcaagc aatgttttcg aaaactgcct 960

gtaaatagac ctattgattg gaaagtatgt cagagaattg tgggtctttt gggctttgct 1020

gccccttta cacaatgtgg ctatcctgcc ttaatgcctt tatatgcatg tatacaatct 1080

aagcaggctt tcactttctc gccaacttac aaggcctttc tgtgtaaaca atatctgaac 1140

ctttaccccg ttgcccggca acggtcaggt ctctgccaag tgtttgctga cgcaaccccc 1200

actggatggg gcttggctat tggccatcgc cgcatgcgtg gaacctttgt ggctcctctg 1260

ccgatccata ctgcggaact cctagcagct tgttttgctc gcagccggtc tggagcgaaa 1320

ctgatcggaa cggacaactc tgttgttctc tctcggaaat acacctcctt tccatggctg 1380

ctagggtgtg ctgccaactg gatcctgcgc gggacgtcct ttgtttacgt cccgtcggcg 1440

ctgaatcccg cggacgaccc atctcggggc cgtttgggtc tctaccgtcc ccttcttcat 1500

ctgccgttcc ggccgaccac ggggcgcacc tctctttacg cggtctcccc gtctgtgcct 1560

tctcatctgc cggaccgtgt gcacttcgct tcacctctgc acgtcgcatg gagaccaccg 1620

tgaacgccca ccaggtcttg cccaaggtct tatataagag gactcttgga ctctcagcaa 1680

tgtcaacgac cgaccttgag gcatacttca aagactgttt gtttaaggac tgggaggagt 1740

tgggggagga gattaggtta atgatctttg tactaggagg ctgtaggcat aaattggtct 1800

gttcaccagc accatgcaac tttttcacct ctgcctaatc atctcatgtt catgtcctac 1860

tgttcaagcc tccaagctgt gccttgggtg gctttaggac atggacattg acccatataa 1920

agaatttgga gcttctgtgg agttactctc ttttttgcct tctgactttt ttccttctat 1980

tcgagatctc ctcgacaccg cctctgctct gtatcgggag gccttagagt ctccggaaca 2040

ttgttcacct caccatacag cactcagaca agccattctg tgttggggtg agttgatgaa 2100

tctggccacc tgggtgggaa gtaatttgga agacccagca tccagggaat tagtagtcag 2160

ctatgtcaat gttaatatgg gcctaaaaat cagacaacta ctgtggtttc acatttcctg 2220

tcttactttt ggaagagaaa ctgttcttga gtatttggtg tcttttggag tgtggattcg 2280

cactcctcct gcttacagac catcaaatgc ccctatctta tcaacacttc cggaaactac 2340

tgttgttaga cgacgaggca ggtcccctag aagaagaact ccctcgcctc gcagacgaag 2400

gtctcaatcg ccgcgtcgca gaagatctca atctcgggaa cctcaatgtt agtatccctt 2460

ggactcataa ggtgggaaac tttactgggc tttattcttc tactgtacct gtctttaatc 2520

ctgagtggca aactccctct tttcctcata ttcatttgca ggaggacatt attaatagat 2580

gtcaacaata tgtgggccct cttacagtta atgaaaaaag gagattaaaa ttaattatgc 2640

ctgctaggtt ctatcctaac cttaccaaat atttgccctt ggacaaaggc attaaaccat 2700

attatccgga acatgcagtt aatcattact tcaaaactag gcattattta catactctgt 2760

ggaaggcngg cattctatat aagagagaaa ctacacgcag cgcctcattt tgtgggtcac 2820

catattcttg ggaacaagag ctacagcatg ggaggttggt cttccaaacc tcgacaaggc 2880

atggggacaa atctttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 2940

cctgcgttcg gagccaactc aaacaatcca gattgggact tcaaccccaa caaggatcac 3000

tggccagagg caaatcaggt aggagcggga gcattcgggc cagggttcac cccaccacac 3060

ggcggtcttt tggggtggag ccctcaggct cagggcacat tgacaacagt gccagtagca 3120

cctcctcctg cctccaccaa tcggcagtca ggaagacagc ctactcccat ctctccacct 3180

ctaagagaca gtcatcctca ggccatgcag tggaa 3215

<210> 4
<211> 3215
<212> DNA
<213> Hepatitis B virus

<220>
<221> modified_base
<222> (448)..(448)
<223> a, c, t, g, unknown or other

<400> 4
ttccactgca tggcctgagg atgactgtct cttagaggtg gagagatggg agtaggctgt 60

cttcctgact gccgattggt ggaggcagga ggaggtgcta ctggcactgt tgtcaatgtg 120

ccctgagcct gagggctcca ccccaaaaga ccgccgtgtg gtggggtgaa ccctggcccg 180

aatgctcccg ctcctacctg atttgcctct ggccagtgat ccttgttggg gttgaagtcc 240

caatctggat tgtttgagtt ggctccgaac gcagggtcca actggtgatc gggaaagaat 300

cccagaggat tgggaacaga aagatttgtc cccatgcctt gtcgaggttt ggaagaccaa 360

cctcccatgc tgtagctctt gttcccaaga atatggtgac ccacaaaatg aggcgctgcg 420

tgtagtttct ctcttatata gaatgccngc cttccacaga gtatgtaaat aatgcctagt 480

tttgaagtaa tgattaactg catgttccgg ataatatggt ttaatgcctt tgtccaaggg 540

caaatatttg gtaaggttag gatagaacct agcaggcata attaatttta atctcctttt 600

ttcattaact gtaagagggc ccacatattg ttgacatcta ttaataatgt cctcctgcaa 660

atgaatatga ggaaaagagg gagtttgcca ctcaggatta aagacaggta cagtagaaga 720

ataaagccca gtaaagtttc ccaccttatg agtccaaggg atactaacat tgaggttccc 780

gagattgaga tcttctgcga cgcggcgatt gagaccttcg tctgcgaggc gagggagttc 840

ttcttctagg ggacctgcct cgtcgtctaa caacagtagt ttccggaagt gttgataaga 900

taggggcatt tgatggtctg taagcaggag gagtgcgaat ccacactcca aaagacacca 960

aatactcaag aacagtttct cttccaaaag taagacagga aatgtgaaac cacagtagtt 1020

gtctgatttt taggcccata ttaacattga catagctgac tactaattcc ctggatgctg 1080

ggtcttccaa attacttccc acccaggtgg ccagattcat caactcaccc caacacagaa 1140

tggcttgtct gagtgctgta tggtgaggtg aacaatgttc cggagactct aaggcctccc 1200

gatacagagc agaggcggtg tcgaggagat ctcgaataga aggaaaaaag tcagaaggca 1260

aaaaagagag taactccaca gaagctccaa attctttata tgggtcaatg tccatgtcct 1320

aaagccaccc aaggcacagc ttggaggctt gaacagtagg acatgaacat gagatgatta 1380

ggcagaggtg aaaaagttgc atggtgctgg tgaacagacc aatttatgcc tacagcctcc 1440

tagtacaaag atcattaacc taatctcctc ccccaactcc tcccagtcct taaacaaaca 1500

gtctttgaag tatgcctcaa ggtcggtcgt tgacattgct gagagtccaa gagtcctctt 1560

atataagacc ttgggcaaga cctggtgggc gttcacggtg gtctccatgc gacgtgcaga 1620

ggtgaagcga agtgcacacg gtccggcaga tgagaaggca cagacgggga gaccgcgtaa 1680

agagaggtgc gccccgtggt cggccggaac ggcagatgaa gaaggggacg gtagagaccc 1740

aaacggcccc gagatgggtc gtccgcggga ttcagcgccg acgggacgta aacaaaggac 1800

gtcccgcgca ggatccagtt ggcagcacac cctagcagcc atggaaagga ggtgtatttc 1860

cgagagagaa caacagagtt gtccgttccg atcagtttcg ctccagaccg gctgcgagca 1920

aaacaagctg ctaggagttc cgcagtatgg atcggcagag gagccacaaa ggttccacgc 1980

atgcggcgat ggccaatagc caagccccat ccagtggggg ttgcgtcagc aaacacttgg 2040

cagagacctg accgttgccg ggcaacgggg taaaggttca gatattgttt acacagaaag 2100

gccttgtaag ttggcgagaa agtgaaagcc tgcttagatt gtatacatgc atataaaggc 2160

attaaggcag gatagccaca ttgtgtaaaa ggggcagcaa agcccaaaag acccacaatt 2220

ctctgacata ctttccaatc aataggtcta tttacaggca gttttcgaaa acattgcttg 2280

atttttagta caatatggtc ttgcggtaaa gtaccccaac ttccaattac atatcccatg 2340

aagttaaggg agtaacccca acgtttggtt ttattagggt tcaaatgtat acccaaagac 2400

aaaagaaaat tggtaacagc ggtaaaaagg gactcaagat gttgtacaga cttggccccc 2460

aataccacat catccatata actgaaagcc aaacagtggg ggaaagccct acgaaccact 2520

gaacaaatgg cactagtaaa ctgagccagg agaaacggac tgaggcccac tcccatagga 2580

atcttgcgaa agcccaggat gatgggatgg gaatacaagt gcagtttccg tccgaaggtt 2640

ttgtacagca acaagaggga aacatagagg tgccttgagc aggaatcgtg caggtcttgc 2700

atggtcccgt gctggtagtt gatgttcctg gaagtagagg acaaacgggc aacatacctt 2760

ggtagtccag aagaaccaac aagaagatga ggcatagcag caggatgaag aggaatatga 2820

taaaacgccg cagacacatc cagcgatagc caggacaaat tggaggacaa gaggttggtg 2880

agtgattgga ggttggggac tgcgaatttt ggccaggaca cgtgggtgct ccccctagaa 2940

aattgagaga agtccaccac gagtctagac tctgtggtat tgtgaggatt cttgtcaaca 3000

agaaaaaccc cgcctgtaac acgagcaggg gtcctaggaa tcctgatgtt gtgttctcca 3060

tgttcggtgc agggtcccca gtcctcgaga agattgacga tatgggagag gcagtagtcg 3120

gaacagggtt tactgttccg gaactggagc caccagcagg aaagtatagg ccccttactc 3180

tggggtgtag cagagcttgg tggaatgtgg tggag 3215

<210> 5
<211> 832
<212> PRT
<213> Hepatitis B virus

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

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

Leu Asn Arg Arg Val Ala Glu Asp Leu Asn Leu Gly Asn Leu Asn Val
35 40 45

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Ala Ala Tyr Pro Ala Val Ser Thr Phe Glu Lys His Ser Ser Ser Gly
        275                 280                 285

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

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

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

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

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

Pro His Asn Thr Ala Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe
```

```
    370                 375                 380

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

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

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

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

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

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

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

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

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

Ala Phe Pro His Cys Leu Ala Phe Ser Tyr Met Asp Asp Val Val Leu
    530                 535                 540

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Val Pro Ser Ala Leu Asn Pro Ala Asp Asp Pro Ser Arg Gly Arg Leu
```

```
    770                 775                 780

Gly Leu Ser Arg Pro Leu Leu Arg Leu Pro Phe Arg Pro Thr Thr Gly
785                 790                 795                 800

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

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


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

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

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

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

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

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

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

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

Ser Thr Thr Phe His Gln Thr Leu Gln Asp Pro Arg Val Arg Gly Leu
```

```
        115                 120                 125

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Leu Trp Val Tyr Ile
385
```

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

<400> 7

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

Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser Ser Gly Thr Val
            20                  25                  30

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Ile Phe Phe Cys Leu Trp Val Tyr Ile
        275                 280
```

<210> 8

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

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

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

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

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

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

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

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

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

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

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

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

Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu

```
            180                 185                 190

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

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

Tyr Ile
225
```

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

<400> 9

```
Met Ala Ala Arg Leu Cys Cys Gln Leu Asp Pro Ala Arg Asp Val Leu
1               5                   10                  15

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

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

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

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

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

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

Lys Asp Cys Leu Phe Lys Asp Trp Glu Glu Leu Gly Glu Glu Ile Arg
```

115 120 125

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

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

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

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

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

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

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

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

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

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

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

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

```
    130                 135                 140

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

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

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

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

Glu Ser Gln Cys
    210
```

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

<400> 11

```
Met Pro Leu Ser Tyr Gln His Phe Arg Lys Leu Leu Leu Leu Asp Asp
1               5                   10                  15

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

Leu Asn Arg Arg Val Ala Glu Asp Leu Asn Leu Gly Asn Leu Asn Val
        35                  40                  45

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

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

His Ile His Leu Gln Glu Asp Ile Ile Asn Arg Cys Gln Gln Tyr Val
```

```
                85                  90                  95

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

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

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

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

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

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

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

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

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

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

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

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

```
Leu Ser Thr Ser Lys Arg Gln Ser Ser Ser Gly His Ala Val Glu Leu
    290                 295                 300

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

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

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

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

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

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

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

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

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

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

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

Ser Cys Ser Arg His Leu Tyr Val Ser Leu Leu Leu Leu Tyr Lys Thr
```

```
                485                 490                 495

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

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

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

Leu Ala Phe Ser Tyr Met Asp Asp Val Val Leu Gly Ala Lys Ser Val
545                 550                 555                 560

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Leu Leu His Leu Pro Phe Arg Pro Thr Thr Gly Arg Thr Ser Leu Tyr
                805                 810                 815

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

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

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

<400> 12

```
Met Gly Gly Trp Ser Ser Lys Pro Arg Gln Gly Met Gly Thr Asn Leu
1               5                   10                  15
```

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

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

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

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

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

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

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

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

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

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

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

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

Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly
```

```
    210                 215                 220

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

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

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

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

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

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

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

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

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

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

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

<210> 13
<211> 210
<212> PRT

<213> Hepatitis B virus

<400> 13

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

Ser Ser Ala Asp Pro Tyr Cys Gly Thr Pro Ser Ser Leu Phe Cys Ser
            20                  25                  30

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

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

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

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

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

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

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

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

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

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

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


Ser Ala
    210


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

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


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


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


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


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


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


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


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


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

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

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

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

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

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

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

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

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

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

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

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

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

Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr
```

```
            340                 345                 350

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

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

Leu Trp Val Tyr Ile
385
```

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

<400> 15

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

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

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

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

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

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

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

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

115 120 125

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

Glu Thr Thr Val Val Arg Arg Arg Gly Arg Ser Pro Arg Arg Arg Thr
145 150 155 160

Pro Ser Pro Arg Arg Arg Arg Ser Gln Ser Pro Arg Arg Arg Arg Ser
165 170 175

Gln Ser Arg Glu Ser Gln Cys
180

<210> 16
<211> 3182
<212> DNA
<213> Hepatitis B virus

<400> 16
aattccactg catggcctga ggatgagtgt ttctcaaagg tggagacagc ggggtaggct 60

gccttcctga ctggcgattg gtggaggcag gaggcggatt tgctggcaaa gtttgtagta 120

tgccctgagc ctgagggctc caccccaaaa ggcctccgtg cggtggggtg aaacccagcc 180

cgaatgctcc agctcctacc ttgttggcgt ctggccaggt gtccttgttg ggattgaagt 240

cccaatctgg atttgcggtg tttgctctga aggctggatc caactggtgg tcgggaaaga 300

atcccagagg attgctggtg gaaagattct gccccatgct gtagatcttg ttcccaagaa 360

tatggtgacc cacaaaatga ggcgctatgt gttgtttctc tcttatataa tatacccgcc 420

ttccatagag tgtgtaaata gtgtctagtt tggaagtaat gattaactag atgttctgga 480

taataaggtt taataccctt atccaatggt aaatatttgg taacctttgg ataaaacctg 540

gcaggcataa tcaattgcaa tcttcttttc tcattaactg tgagtgggcc tacaaactgt 600

tcacattttt tgataatgtc ttggtgtaaa tgtatattag gaaaagatgg tgttttccaa 660

tgaggattaa agacaggtac agtagaagaa taaagcccag taaagttccc caccttatga 720

gtccaaggaa tactaacatt gagattcccg agattgagat cttctgcgac gcggcgattg 780

agaccttcgt ctgcgaggcg agggagttct tcttctaggg gacctgcctc gtcgtctaac 840

aacagtagtc tccggaagtg ttgataggat aggggcattt ggtggtctat aagctggagg 900

agtgcgaatc cacactccga aagacaccaa atactctata actgtttctc ttccaaaagt 960

gagacaagaa atgtgaaacc acaagagttg cctgaacttt aggcccatat tagtgttgac 1020

ataactgact actaggtctc tagacgctgg atcttccaaa ttaacaccca cccaggtagc 1080

tagagtcatt agttcccccc agcaaagaat tgcttgcctg agtgcagtat ggtgaggtga 1140

acaatgctca ggagactcta aggcttcccg atacagagct gaggcggtat ctagaagatc 1200

tcgtactgaa ggaaagaagt cagaaggcaa aaacgagagt aactccacag tagctccaaa 1260

ttctttataa gggtcgatgt ccatgcccca aagccaccca aggcacagct tggaggcttg 1320

aacagtagga catgaacaag agatgattag gcagaggtga aaaagttgca tggtgctggt 1380

gcgcagacca atttatgcct acagcctcct agtacaaaga cctttaacct aatctcctcc 1440

cccaactcct cccagtcttt aaacaaacag tctttgaagt atgcctcaag gtcggtcgtt 1500

gacattgctg agagtccaag agtcctctta tgtaagacct tgggcaatat ttggtgggcg 1560

ttcacggtgg tctccatgcg acgtgcagag gtgaagcgaa gtgcacacgg tccggcagat 1620

gagaaggcac agacggggag tccgcgtaaa gagaggtgcg ccccgtggtc ggtcggaacg 1680

gcagacggag aaggggacga gagagtccca agcgaccccg agaagggtcg tccgcaggat 1740

tcagcgccga cgggacgtaa acaaaggacg tcccgcgcag gatccagttg gcagcacagc 1800

ctagcagcca tggaaacgat gtatatttgc gggataggac aacagagtta tcagtcccga 1860

taatgtttgc tccagacctg ctgcgagcaa aacaagcggc taggagttcc gcagtatgga 1920

tcggcagagg agccgaaaag gttccacgca tgcgctgatg gcccatgacc aagccccagc 1980

cagtgggggt tgcgtcagca aacacttggc acagacctgg ccgttgccgg gcaacggggt 2040

aaaggttcag gtattgttta cacagaaagg ccttgtaagt tggcgagaaa gtgaaagcct 2100

gcttagattg aatacatgca tacaaaggca tcaacgcagg ataaccacat tgtgtaaaag 2160

gggcagcaaa acccaaaaga cccacaattc gttgacatac tttccaatca ataggcctgt 2220

taataggaag ttttctaaaa cattctttga ttttttgtat gatgtgttct tgtggcaagg 2280

acccataaca tccaatgaca taacccataa aatttagaga gtaaccccat ctctttgttt 2340

tgttagggtt taaatgtata cccaaagaca aaagaaaatt ggtaacagcg gtaaaaaggg 2400

actcaagatg ctgtacagac ttggccccca ataccacatc atccatataa ctgaaagcca 2460

aacagtgggg gaaagcccta cgaaccactg aacaaatggc actagtaaac tgagccagga 2520

gaaacgggct gaggcccact cccataggaa ttttccgaaa gcccaggatg atgggatggg 2580

aatacaggtg caatttccgt ccgaaggttt ggtacagcaa caggagggat acatagaggt 2640

tccttgagca gtagtcatgc aggtccggca tggtcccgtg ctggttgttg aggatcctgg 2700

aattagagga caaacgggca acataccttg atagtccaga agaaccaaca agaagatgag 2760

gcatagcagc aggatgaaga ggaagatgat aaaacgccgc agacacatcc agcgataacc 2820

aggacaagtt ggaggacaag aggttggtga gtgattggag gttggggact gcgaattttg 2880

gccaagacac acggtagttc cccctagaaa attgagagaa gtccaccacg agtctagact 2940

ctgcggtatt gtgaggattc ttgtcaacaa gaaaaacccc gcctgtaaca cgagaagggg 3000

tcctaggaat cctgatgtga tgttctccat gttcagcgca gggtccccaa tcctcgagaa 3060

gattgacgat aagggagagg cagtagtcag aacagggttt actgttcctg aactggagcc 3120

accagcaggg aaatacaggc ctctcactct gggatcttgc agagtttggt ggaaggttgt 3180

gg 3182

<210> 17
<211> 3182
<212> DNA
<213> Hepatitis B virus

<400> 17
ccacaacctt ccaccaaact ctgcaagatc ccagagtgag aggcctgtat ttccctgctg 60

gtggctccag ttcaggaaca gtaaaccctg ttctgactac tgcctctccc ttatcgtcaa 120

tcttctcgag gattggggac cctgcgctga acatggagaa catcacatca ggattcctag 180

gacccttct cgtgttacag gcggggtttt tcttgttgac aagaatcctc acaataccgc 240

agagtctaga ctcgtggtgg acttctctca attttctagg gggaactacc gtgtgtcttg 300

gccaaaattc gcagtcccca acctccaatc actcaccaac ctcttgtcct ccaacttgtc 360

ctggttatcg ctggatgtgt ctgcggcgtt ttatcatctt cctcttcatc ctgctgctat 420

gcctcatctt cttgttggtt cttctggact atcaaggtat gttgcccgtt tgtcctctaa 480

ttccaggatc ctcaacaacc agcacgggac catgccggac ctgcatgact actgctcaag 540

gaacctctat gtatccctcc tgttgctgta ccaaaccttc ggacggaaat tgcacctgta 600

ttcccatccc atcatcctgg gctttcggaa aattcctatg ggagtgggcc tcagcccgtt 660

tctcctggct cagtttacta gtgccatttg ttcagtggtt cgtagggctt tcccccactg 720

tttggctttc agttatatgg atgatgtggt attgggggcc aagtctgtac agcatcttga 780

gtccctttt accgctgtta ccaattttct tttgtctttg ggtatacatt taaaccctaa 840

caaaacaaag agatggggtt actctctaaa ttttatgggt tatgtcattg gatgttatgg 900

gtccttgcca caagaacaca tcatacaaaa aatcaaagaa tgttttagaa aacttcctat 960

taacaggcct attgattgga aagtatgtca acgaattgtg ggtcttttgg gttttgctgc 1020

ccctttaca caatgtggtt atcctgcgtt gatgcctttg tatgcatgta ttcaatctaa 1080

gcaggctttc actttctcgc caacttacaa ggcctttctg tgtaaacaat acctgaacct 1140

ttaccccgtt gcccggcaac ggccaggtct gtgccaagtg tttgctgacg caacccccac 1200

tggctggggc ttggtcatgg gccatcagcg catgcgtgga acctttcgg ctcctctgcc 1260

gatccatact gcggaactcc tagccgcttg ttttgctcgc agcaggtctg gagcaaacat 1320

tatcgggact gataactctg ttgtcctatc ccgcaaatat acatcgtttc catggctgct 1380

aggctgtgct gccaactgga tcctgcgcgg gacgtccttt gtttacgtcc cgtcggcgct 1440

gaatcctgcg gacgaccctt ctcggggtcg cttgggactc tctcgtcccc ttctccgtct 1500

gccgttccga ccgaccacgg ggcgcacctc tctttacgcg gactccccgt ctgtgccttc 1560

tcatctgccg gaccgtgtgc acttcgcttc acctctgcac gtcgcatgga gaccaccgtg 1620

aacgcccacc aaatattgcc caaggtctta cataagagga ctcttggact ctcagcaatg 1680

tcaacgaccg accttgaggc atacttcaaa gactgtttgt ttaaagactg ggaggagttg 1740

ggggaggaga ttaggttaaa ggtctttgta ctaggaggct gtaggcataa attggtctgc 1800

gcaccagcac catgcaactt tttcacctct gcctaatcat ctcttgttca tgtcctactg 1860

ttcaagcctc caagctgtgc cttgggtggc tttggggcat ggacatcgac ccttataaag 1920

aatttggagc tactgtggag ttactctcgt ttttgccttc tgacttcttt ccttcagtac 1980

gagatcttct agataccgcc tcagctctgt atcgggaagc cttagagtct cctgagcatt 2040

gttcacctca ccatactgca ctcaggcaag caattctttg ctgggggggaa ctaatgactc 2100

tagctacctg ggtgggtgtt aatttggaag atccagcgtc tagagaccta gtagtcagtt 2160

atgtcaacac taatatgggc ctaaagttca ggcaactctt gtggtttcac atttcttgtc 2220

tcacttttgg aagagaaaca gttatagagt atttggtgtc tttcggagtg tggattcgca 2280

ctcctccagc ttatagacca ccaaatgccc ctatcctatc aacacttccg gagactactg 2340

ttgttagacg acgaggcagg tcccctagaa gaagaactcc ctcgcctcgc agacgaaggt 2400

ctcaatcgcc gcgtcgcaga agatctcaat ctcgggaatc tcaatgttag tattccttgg 2460

actcataagg tggggaactt tactgggctt tattcttcta ctgtacctgt ctttaatcct 2520

cattggaaaa caccatcttt tcctaatata catttacacc aagacattat caaaaaatgt 2580

gaacagtttg taggcccact cacagttaat gagaaaagaa gattgcaatt gattatgcct 2640

gccaggtttt atccaaaggt taccaaatat ttaccattgg ataagggtat taaaccttat 2700

tatccagaac atctagttaa tcattacttc caaactagac actatttaca cactctatgg 2760

aaggcgggta tattatataa gagagaaaca acacatagcg cctcattttg tgggtcacca 2820

tattcttggg aacaagatct acagcatggg gcagaatctt tccaccagca atcctctggg 2880

attctttccc gaccaccagt tggatccagc cttcagagca aacaccgcaa atccagattg 2940

ggacttcaat cccaacaagg acacctggcc agacgccaac aaggtaggag ctggagcatt 3000

cgggctgggt ttcaccccac cgcacggagg ccttttgggg tggagccctc aggctcaggg 3060

catactacaa actttgccag caaatccgcc tcctgcctcc accaatcgcc agtcaggaag 3120

gcagcctacc ccgctgtctc cacctttgag aaacactcat cctcaggcca tgcagtggaa 3180

tt 3182

<210> 18

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

<400> 18
Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Leu Pro Asp
1 5 10 15

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

Asp Phe Asn Pro Ile Lys Asp His Trp Pro Ala Ala Asn Gln Val Gly
35 40 45

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

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

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

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

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

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

Asn Ile Ala Ser His Ile Ser Ser Ile Ser Ala Arg Thr Gly Asp Pro
145 150 155 160

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

Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro

```
            180                 185                 190

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

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

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

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

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

Ile Pro Gly Ser Thr Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr
        275                 280                 285

Thr Pro Ala Gln Gly Asn Ser Lys Phe Pro Ser Cys Cys Cys Thr Lys
    290                 295                 300

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

Phe Ala Lys Tyr Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu
                325                 330                 335

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

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

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

Leu Trp Val Tyr Ile
385

<210> 19
<211> 185
<212> PRT
<213> Hepatitis B virus

<400> 19
Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu
1 5 10 15

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

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

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

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

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

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

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

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

Glu Thr Thr Val Val Arg Arg Arg Asp Arg Gly Arg Ser Pro Arg Arg
145 150 155 160

Arg Thr Pro Ser Pro Arg Arg Arg Arg Ser Gln Ser Pro Arg Arg Arg
165 170 175

Arg Ser Gln Ser Arg Glu Ser Gln Cys
180 185

<210> 20
<211> 3200
<212> DNA
<213> Hepatitis B virus

<400> 20
ttccactgcc ttgcaccaag ctctgcagga tcccagagtc aggggtctgt atcttcctgc 60

tggtggctcc agttcaggaa cagtaaaccc tgctccgaat attgcctctc acatctcgtc 120

aatctccgcg aggactgggg accctgtgac gatcatggag aacatcacat caggattcct 180

aggacccctg ctcgtgttac aggcggggtt tttcttgttg acaagaatcc tcacaatacc 240

gcagagtcta gactcgtggt ggacttctct caattttcta gggggatcac ccgtgtgtct 300

tggccaaaat tcgcagtccc caacctccaa tcactcacca acctcctgtc ctccaatttg 360

tcctggttat cgctggatgt gtctgcggcg ttttatcata ttcctcttca tcctgctgct 420

atgcctcatc ttcttattgg ttcttctgga ttatcaaggt atgttgcccg tttgtcctct 480

aattccagga tcaacaacaa ccagtacggg accatgcaaa acctgcacga ctcctgctca 540

aggcaactct aagtttccct catgttgctg tacaaaacct acggatggaa attgcacctg 600

tattcccatc ccatcgtcct gggctttcgc aaaataccta tgggagtggg cctcagtccg 660

tttctcttgg ctcagtttac tagtgccatt tgttcagtgg ttcgtagggc tttcccccac 720

tgtttggctt tcagctatat ggatgatgtg gtattggggg ccaagtctgt acagcatcgt 780

gagtcccttt ataccgctgt taccaatttt cttttgtctc tgggtataca tttaaaccct 840

aacaaaacaa aaagatgggg ttattcccta aacttcatgg gctacataat tggaagttgg 900

ggaactttgc cacaggatca tattgtacaa aagatcaaac actgttttag aaaacttcct 960

gttaacaggc ctattgattg gaaagtatgt caaagaattg tgggtctttt gggctttgct 1020

gctccattta cacaatgtgg atatcctgcc ttaatgcctt tgtatgcatg tatacaagct 1080

aaacaggctt tcactttctc gccaacttac aaggcctttc taagtaaaca gtacatgaac 1140

ctttaccccg ttgctcggca acggcctggt ctgtgccaag tgtttgctga cgcaaccccc 1200

actggctggg gcttagccat aggccatcag cgcatgcgtg gaacctttgt ggctcctctg 1260

ccgatccata ctgcggaact cctagccgct tgttttgctc gcagccggtc tggagcaaag 1320

ctcatcggaa ctgacaattc tgtcgtcctc tcgcggaaat atacatcatt tccatggctg 1380

ctaggctgta ctgccaactg gatccttcgc gggacgtcct ttgtttacgt cccgtcggcg 1440

ctgaatcccg cggacgaccc ctctcggggc cgcttgggac tctctcgtcc ccttctccgt 1500

ctgccgttcc agccgaccac ggggcgcacc tctctttacg cggtctcccc gtctgtgcct 1560

tctcatctgc cggtccgtgt gcacttcgct tcacctctgc acgttgcatg gcgaccaccg 1620

tgaacgccca tcagatcctg cccaaggtct tacataagag gactcttgga ctcccagcaa 1680

tgtcaacgac cgaccttgag gcctacttca aagactgtgt gtttaaggac tgggaggagt 1740

tgggggagga gattaggtta atgatctttg tattaggagg ctgtaggcat aaattggtct 1800

gcgcaccagc accatgcaac tttttcacct ctgcctaatc atctcttgta catgtcccac 1860

tgttcaagcc tccaagctgt gccttgggtg gctttggggc atggacattg acccttataa 1920

agaatttgga gctactgtgg agttactctc gtttttgcct tctgacttct ttccttccgt 1980

acgagatctc ctagacaccg cctcagctct gtatcgagaa gccttagagt ctcctgagca 2040

ttgctcacct caccatactg cactcaggca agccattctc tgctgggggg aattgatgac 2100

tctagctacc tgggtgggta ataatttgca agatccagca tccagagatc tagtagtcaa 2160

ttatgttaat actaacatgg gtttaaagat caggcaacta ttgtggtttc atatatcttg 2220

ccttactttt ggaagagaga ctgtacttga atatttggtc tctttcggag tgtggattcg 2280

cactcctcca gcctatagac caccaaatgc ccctatctta tcaacacttc cggaaactac 2340

tgttgttaga cgacgggacc gaggcaggtc ccctagaaga agaactccct cgcctcgcag 2400

acgcagatct caatcgccgc gtcgcagaag atctcaatct cgggaatctc aatgttagta 2460

ttccttggac tcataaggtc ggaaacttta cggggcttta ttcctctaca gtacctatct 2520

ttaatcctga atggcaaact ccttcctttc ctaagattca tttacaagag gacattatta 2580

ataggtgtca acaatttgtg ggccctctca ctgtaaatga aaagagaaga ttgaaattaa 2640

ttatgcctgc tagattctat cctacccaca ctaaatattt gcccttagac aaaggaatta 2700

aaccttatta tccagatcag gtagttaatc attacttcca aaccagacat tatttacata 2760

ctctttggaa ggctggtatt ctatataaga gggaaaccac acgtagcgca tcattttgcg 2820

ggtcaccata ttcttgggaa caagagctac agcattcgca aaggcatggg gacgaatctt 2880

tctgttccca accctctggg attccttccc gatcatcagt tggaccctgc attcggagcc 2940

aactcaacaa atccagattg ggacttcaac cccatcaagg accactggcc agcagccaac 3000

caggtaggag tgggagcatt cgggccaggg ctcacccctc cacacggcgg tattttgggg 3060

tggagccctc aggctcaggg catattgacc acagtgtcaa caattcctcc tcctgcctcc 3120

accaatcggc agtcaggaag gcagcctact cccatctctc cacctctaag agacagtcat 3180

cctcaggcca tgcagtggaa 3200

<210> 21
<211> 3200
<212> DNA
<213> Hepatitis B virus

<400> 21
ttccactgca tggcctgagg atgactgtct cttagaggtg gagagatggg agtaggctgc 60

cttcctgact gccgattggt ggaggcagga ggaggaattg ttgacactgt ggtcaatatg 120

ccctgagcct gagggctcca ccccaaaata ccgccgtgtg gaggggtgag ccctggcccg 180

aatgctccca ctcctacctg gttggctgct ggccagtggt ccttgatggg gttgaagtcc 240

caatctggat ttgttgagtt ggctccgaat gcagggtcca actgatgatc gggaaggaat 300

cccagagggt tgggaacaga aagattcgtc cccatgcctt tgcgaatgct gtagctcttg 360

ttcccaagaa tatggtgacc cgcaaaatga tgcgctacgt gtggtttccc tcttatatag 420

aataccagcc ttccaaagag tatgtaaata atgtctggtt tggaagtaat gattaactac 480

ctgatctgga taataaggtt taattccttt gtctaagggc aaatatttag tgtgggtagg 540

atagaatcta gcaggcataa ttaatttcaa tcttctcttt tcatttacag tgagagggcc 600

cacaaattgt tgacacctat taataatgtc ctcttgtaaa tgaatcttag gaaaggaagg 660

agtttgccat tcaggattaa agataggtac tgtagaggaa taaagccccg taaagtttcc 720

gaccttatga gtccaaggaa tactaacatt gagattcccg agattgagat cttctgcgac 780

gcggcgattg agatctgcgt ctgcgaggcg agggagttct tcttctaggg gacctgcctc 840

ggtcccgtcg tctaacaaca gtagtttccg gaagtgttga taagataggg gcatttggtg 900

gtctataggc tggaggagtg cgaatccaca ctccgaaaga gaccaaatat tcaagtacag 960

tctctcttcc aaaagtaagg caagatatat gaaaccacaa tagttgcctg atctttaaac 1020

ccatgttagt attaacataa ttgactacta gatctctgga tgctggatct tgcaaattat 1080

tacccaccca ggtagctaga gtcatcaatt ccccccagca gagaatggct tgcctgagtg 1140

cagtatggtg aggtgagcaa tgctcaggag actctaaggc ttctcgatac agagctgagg 1200

cggtgtctag gagatctcgt acggaaggaa agaagtcaga aggcaaaaac gagagtaact 1260

ccacagtagc tccaaattct ttataagggt caatgtccat gccccaaagc cacccaaggc 1320

acagcttgga ggcttgaaca gtgggacatg tacaagagat gattaggcag aggtgaaaaa 1380

gttgcatggt gctggtgcgc agaccaattt atgcctacag cctcctaata caaagatcat 1440

taacctaatc tcctccccca actcctccca gtccttaaac acacagtctt tgaagtaggc 1500

ctcaaggtcg gtcgttgaca ttgctgggag tccaagagtc ctcttatgta agaccttggg 1560

caggatctga tgggcgttca cggtggtcgc catgcaacgt gcagaggtga agcgaagtgc 1620

acacggaccg gcagatgaga aggcacagac ggggagaccg cgtaaagaga ggtgcgcccc 1680

gtggtcggct ggaacggcag acggagaagg ggacgagaga gtcccaagcg gccccgagag 1740

gggtcgtccg cgggattcag cgccgacggg acgtaaacaa aggacgtccc gcgaaggatc 1800

cagttggcag tacagcctag cagccatgga aatgatgtat atttccgcga gaggacgaca 1860

gaattgtcag ttccgatgag ctttgctcca gaccggctgc gagcaaaaca agcggctagg 1920

agttccgcag tatggatcgg cagaggagcc acaaaggttc cacgcatgcg ctgatggcct 1980

atggctaagc cccagccagt gggggttgcg tcagcaaaca cttggcacag accaggccgt 2040

tgccgagcaa cggggtaaag gttcatgtac tgtttactta gaaaggcctt gtaagttggc 2100

gagaaagtga aagcctgttt agcttgtata catgcataca aaggcattaa ggcaggatat 2160

ccacattgtg taaatggagc agcaaagccc aaaagaccca caattctttg acatactttc 2220

caatcaatag gcctgttaac aggaagtttt ctaaaacagt gtttgatctt ttgtacaata 2280

tgatcctgtg gcaaagttcc ccaacttcca attatgtagc ccatgaagtt tagggaataa 2340

ccccatcttt ttgttttgtt agggtttaaa tgtataccca gagacaaaag aaaattggta 2400

acagcggtat aaagggactc acgatgctgt acagacttgg cccccaatac cacatcatcc 2460

atatagctga aagccaaaca gtgggggaaa gccctacgaa ccactgaaca aatggcacta 2520

gtaaactgag ccaagagaaa cggactgagg cccactccca taggtatttt gcgaaagccc 2580

aggacgatgg gatgggaata caggtgcaat ttccatccgt aggttttgta cagcaacatg 2640

agggaaactt agagttgcct tgagcaggag tcgtgcaggt tttgcatggt cccgtactgg 2700

ttgttgttga tcctggaatt agaggacaaa cgggcaacat accttgataa tccagaagaa 2760

ccaataagaa gatgaggcat agcagcagga tgaagaggaa tatgataaaa cgccgcagac 2820

acatccagcg ataaccagga caaattggag gacaggaggt tggtgagtga ttggaggttg 2880

gggactgcga attttggcca agacacacgg gtgatccccc tagaaaattg agagaagtcc 2940

accacgagtc tagactctgc ggtattgtga ggattcttgt caacaagaaa aaccccgcct 3000

gtaacacgag caggggtcct aggaatcctg atgtgatgtt ctccatgatc gtcacagggt 3060

ccccagtcct cgcggagatt gacgagatgt gagaggcaat attcggagca gggtttactg 3120

ttcctgaact ggagccacca gcaggaagat acagacccct gactctggga tcctgcagag 3180

cttggtgcaa ggcagtggaa 3200

<210> 22
<211> 226
<212> PRT
<213> Hepatitis B virus

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

Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu

```
            20                  25                  30

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

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

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

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

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

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

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

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

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

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

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

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

Tyr Ile
225

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Tyr Ile Gly Ser Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly
225 230 235 240

Asp Val Glu Glu Asn Pro Gly
245

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

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

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

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

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

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

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

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

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

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

Glu Thr Thr Val Val
145

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

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

<400> 25
ugugaagcga agugcacacu u 21

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

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

<400> 26
aggugaaaaa guugcauggu guu 23

<210> 27
<211> 19
<212> RNA

<213> Artificial Sequence

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

<400> 27
gugugcacuu cgcuucaca 19

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

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

<400> 28
caccaugcaa cuuuuucacc u 21

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

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

<400> 29
gugugcacuu cgcuucaca 19

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

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

<400> 30
ugugaagcga agugcacacu u 21

<210> 31

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

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

<400> 31
caccaugcaa cuuuuucacc u 21

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

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

<400> 32
aggugaaaaa guugcauggu guu 23

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

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

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

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

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

<400> 34
Ala Ala Leu Leu Pro Val Leu Leu Ala Ala Pro

1 5 10

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

<400> 35
Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln
1 5 10

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

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

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

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

<400> 37
gugugcacuu cgcuucaca 19

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

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

<400> 38
caccaugcaa cuuuuucacc u 21

<210> 39

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

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

<400> 39
gtgtgcactt cgcttcaca 19

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

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

<400> 40
caccatgcaa ctttttcacc t 21

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

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

<400> 41
gagtgtggat tcgcactcc 19

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

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

<400> 42
gaggcgaggg agttcttct 19

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

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

<400> 43
tcaccagcac catgcaac 18

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

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

<400> 44
aagccaccca aggcacag 18

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

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

<400> 45
accaactgct tagccc 16

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

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

<400> 46

ccacgacgga cacatt 16

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

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

<400> 47
aguuauaugg augauguggu a 21

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

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

<400> 48
ggaugugucu gcggcguuuu a 21

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

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

<400> 49
acucguggug gacuucucuc a 21

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

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

<400> 50
acucguggug gacuucucuc a 21

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

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

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

<400> 51
acucguggug gacuuctcuc a 21

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

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

<400> 52
acucguggug gacuucucuc a 21

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

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

<400> 53
ucguggugga cuucucuca 19

<210> 54
<211> 21

<212> RNA
<213> Artificial Sequence

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

<400> 54
acucguggug gacuucucuc a 21

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

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

<400> 55
acucguggug gacuucucuc a 21

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

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

<400> 56
acucguggug gacuucucuc a 21

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

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

<400> 57
acucguggug gacuucucuc a 21

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

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

<400> 58
gugguggacu ucucuca 17

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

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

<400> 59
acucguggug gacuucucuc a 21

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

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

<400> 60
ucguggugga cuucucucau u 21

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

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

<400> 61
acucguggug gacuucucuc a 21

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

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

<400> 62
acucguggug gacuucucuc a 21

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

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

<400> 63
acucguggug gacuucucuc a 21

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

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

<400> 64
acucguggug gacuucucuc a 21

<210> 65
<211> 19
<212> RNA
<213> Artificial Sequence

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

<400> 65
ucguggugga cuucucuca 19

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

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

<400> 66
acucguggug gacuucucuc a 21

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

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

<400> 67
acucguggug gacuucucuc a 21

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

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

<400> 68
acucguggug gacuucucuc a 21

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

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

oligonucleotide

<400> 69
uauuuccuag gguacaa 17

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

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

<400> 70
acucguggug gacuucucuc a 21

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

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

<400> 71
ucguggugga cuucucuca 19

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

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

<400> 72
acucguggug gacuucucuc a 21

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

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

<400> 73
acucguggug gacuucucuc a 21

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

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

<400> 74
acucguggug gacuucucuc a 21

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

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

<400> 75
acucguggug gacuucucuc a 21

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

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

<400> 76
acucguggug gacuucucuc a 21

<210> 77
<211> 21
<212> RNA

<213> Artificial Sequence

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

<400> 77
acucguggug gacuucucuc a 21

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

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

<400> 78
acucguggug gacuucucuc a 21

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

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

<400> 79
acucguggug gacuucucuc a 21

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

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

<400> 80
acucguggug gacuucucuc a 21

<210> 81

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

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

<400> 81
acucguggug gacuucucuc a 21

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

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

<400> 82
acucguggug gacuucucuc a 21

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

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

<400> 83
acucguggug gacuucucuc a 21

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

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

<400> 84
acucguggug gacuucucuc a 21

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

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

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

<400> 85
acucguggug gacuuctcuc a 21

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

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

<400> 86
acucguggug gacuucucuc a 21

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

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

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

<400> 87
acucguggug gacuuctcuc a 21

<210> 88
<211> 21

<212> RNA
<213> Artificial Sequence

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

<400> 88
acucguggug gacuucucuc a 21

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

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

<400> 89
acucguggug gacuucucuc a 21

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

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

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

<400> 90
acucguggug gacuuctcuc a 21

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

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

<400> 91
acucguggug gacuucucuc a 21

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

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

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

<400> 92
acucguggug gacuuctcuc a 21

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

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

<400> 93
acucguggug gacuucucuc a 21

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

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

<400> 94
gugguggacu ucucucaauu u 21

<210> 95
<211> 21
<212> RNA

<213> Artificial Sequence

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

<400> 95
gugguggacu ucucucaauu u 21

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

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

<400> 96
gugguggacu ucucucaauu u 21

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

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

<400> 97
uggacuucuc ucaauuu 17

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

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

<400> 98
gugguggacu ucucucaauu u 21

<210> 99

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

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

<400> 99
gguggacuuc ucucaauuuu u 21

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

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

<400> 100
gugguggacu ucucucaauu u 21

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

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

<400> 101
gugguggacu ucucucaauu u 21

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

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

<400> 102
gugguggacu ucucucaauu u 21

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

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

<400> 103
gguggacuuc ucucaauuu 19

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

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

<400> 104
gugguggacu ucucucaauu u 21

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

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

<400> 105
gguggacuuc ucucaauuu 19

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

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

<400> 106

gugguggacu ucucucaauu u 21

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

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

<400> 107
gugguggacu ucucucaauu u 21

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

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

<400> 108
uggacuucuc ucaauuu 17

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

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

<400> 109
gugguggacu ucucucaauu u 21

<210> 110
<211> 19
<212> RNA
<213> Artificial Sequence

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

<400> 110
gguggacuuc ucucaauuu 19

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

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

<400> 111
gugguggacu ucucucaauu u 21

<210> 112
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 112
gugguggacu ucucucaauu u 21

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

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

<400> 113
gugguggacu ucucucaauu u 21

<210> 114
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 114
gugguggacu ucucucaauu u 21

<210> 115
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 115
gugguggacu ucucucaauu u 21

<210> 116
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 116
gugguggacu ucucucaauu u 21

<210> 117
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 117
gugguggacu ucucucaauu u 21

<210> 118
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 118
gugguggacu ucucucaauu u 21

<210> 119
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 119
gugguggacu ucucucaauu u 21

<210> 120
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 120
gugguggacu ucucucaauu u 21

<210> 121
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 121
gugguggacu ucucucaauu u 21

<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
gugguggact tcucucaauu u 21

<210> 123
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 123
gugguggacu ucucucaauu u 21

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

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

<400> 124
gugguggacu ucucucaauu u 21

<210> 125
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 125
gugguggacu ucucucaauu u 21

<210> 126
<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> 126
gugguggacu tcucucaauu u 21

<210> 127
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 127
gugguggacu ucucucaauu u 21

<210> 128
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 128
gugguggacu ucucucaauu u 21

<210> 129
<211> 21
<212> RNA

<213> Artificial Sequence

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

<400> 129
gugguggacu ucucucaauu u 21

<210> 130
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 130
gugguggacu ucucucaauu u 21

<210> 131
<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> 131
gugguggacu tcucucaauu u 21

<210> 132
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 132

gugguggacu ucucucaauu u 21

<210> 133
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 133
gugguggacu ucucucaauu u 21

<210> 134
<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> 134
gugguggacu tcucucaauu u 21

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

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

<400> 135
gugguggacu ucucucaauu u 21

<210> 136
<211> 19
<212> RNA
<213> Artificial Sequence

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

<400> 136
gguggacuuc ucucaauuu 19

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

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

<400> 137
gugguggacu ucucucaauu u 21

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

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

<400> 138
gugcacuucg cuucaccucu g 21

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

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

<400> 139
guugacaaaa auccucacaa u 21

<210> 140
<211> 21

<212> RNA
<213> Artificial Sequence

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

<400> 140
uguugacaaa aauccucaca a 21

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

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

<400> 141
gguggacuuc ucucaauuuu a 21

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

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

<400> 142
ucuuuuggag uguggauucg a 21

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

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

<400> 143
ucuuuuggag uguggauucg a 21

<210> 144
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 144
acuguucaag ccuccaagcu a 21

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

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

<400> 145
ucugccgauc cauacugcgg a 21

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

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

<400> 146
augugucugc ggcguuuuau a 21

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

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

<400> 147
ccccgucugu gccuucucau a 21

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

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

<400> 148
gccuaaucau cucuuguuca u 21

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

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

<400> 149
ucuagacucg ugguggacuu c 21

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

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

<400> 150
cugccgaucc auacugcgga a 21

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

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

<400> 151
uuuuucuugu ugacaaaaau a 21

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

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

<400> 152
aucuucuugu ugguucuucu a 21

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

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

<400> 153
guuuuucuug uugacaaaaa u 21

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

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

<400> 154
cugccuaauc aucucuuguu a 21

<210> 155
<211> 21
<212> RNA
<213> Artificial Sequence

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

oligonucleotide

<400> 155
uccucacaau accacagagu a 21

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

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

<400> 156
cuuguugaca aaaauccuca a 21

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

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

<400> 157
gcaacuuuuu caccucugcc u 21

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

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

<400> 158
gggaacaaga gcuacagcau a 21

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

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

<400> 159
cgugguggac uucucucaau u 21

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

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

<400> 160
cugcugcuau gccucaucuu a 21

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

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

<400> 161
guuggaugug ucugcggcgu u 21

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

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

<400> 162
uucauccugc ugcuaugccu a 21

<210> 163
<211> 21
<212> RNA

<213> Artificial Sequence

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

<400> 163
uucuuguuga caaaaauccu a 21

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

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

<400> 164
uauauggaug augugguauu a 21

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

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

<400> 165
uucauccugc ugcuaugccu c 21

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

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

<400> 166
gugcacuucg cuucaccucu a 21

<210> 167

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

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

<400> 167
uugacaaaaa uccucacaau a 21

<210> 168
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 168
aagccuccaa gcugugccuu a 21

<210> 169
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 169
ccucuucauc cugcugcuau a 21

<210> 170
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 170
ccugcugcua ugccucaucu u 21

<210> 171
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 171
caucuucuug uugguucuuc u 21

<210> 172
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 172
ccgucugugc cuucucaucu a 21

<210> 173
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 173
ccucaucuuc uuguugguuc u 21

<210> 174
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 174

ccaccaaaug ccccuaucuu a 21

<210> 175
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 175
gcuccucugc cgauccauac u 21

<210> 176
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 176
guugacaaaa auccucacaa u 21

<210> 177
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 177
uguugacaaa aauccucaca a 21

<210> 178
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 178
gguggacuuc ucucaauuuu a 21

<210> 179
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 179
ucuuuuggag uguggauucg a 21

<210> 180
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 180
ucuuuuggag uguggauucg a 21

<210> 181
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 181
acuguucaag ccuccaagcu a 21

<210> 182
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 182
ucugccgauc cauacugcgg a 21

<210> 183
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 183
aguuauaugg augauguggu a 21

<210> 184
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 184
augugucugc ggcguuuuau a 21

<210> 185
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 185
ccccgucugu gccuucucau a 21

<210> 186
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 186
gccuaaucau cucuuguuca u 21

<210> 187
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 187
ucuagacucg ugguggacuu c 21

<210> 188
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 188
cugccgaucc auacugcgga a 21

<210> 189
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 189
aucuucuugu ugguucuucu a 21

<210> 190
<211> 21

<212> RNA
<213> Artificial Sequence

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

<400> 190
uucucucaau uuucuagggg a 21

<210> 191
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 191
acucguggug gacuucucuc a 21

<210> 192
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 192
gugcacuucg cuucaccucu g 21

<210> 193
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 193
guuuuucuug uugacaaaaa u 21

<210> 194
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 194
cugccuaauc aucucuuguu a 21

<210> 195
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 195
uccucacaau accacagagu a 21

<210> 196
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 196
cuuguugaca aaaauccuca a 21

<210> 197
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 197
gugguggacu ucucucaauu u 21

<210> 198
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 198
gcaacuuuuu caccucugcc u 21

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

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

<400> 199
gggaacaaga gcuacagcau a 21

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

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

<400> 200
ucaucuucuu guugguucuu a 21

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

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

<400> 201
cugcugcuau gccucaucuu a 21

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

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

<400> 202
guuggaugug ucugcggcgu u 21

<210> 203
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 203
uucauccugc ugcuaugccu a 21

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

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

<400> 204
uucuuguuga caaaaauccu a 21

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

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

oligonucleotide

<400> 205
ggaugugucu gcggcguuuu a 21

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

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

<400> 206
uauauggaug augugguauu a 21

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

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

<400> 207
uucauccugc ugcuaugccu c 21

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

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

<400> 208
gugcacuucg cuucaccucu a 21

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

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

<400> 209
uugacaaaaa uccucacaau a 21

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

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

<400> 210
ccaaguguuu gcugacgcaa a 21

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

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

<400> 211
ccaaguguuu gcugacgcaa a 21

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

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

<400> 212
aagccuccaa gcugugccuu a 21

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

<213> Artificial Sequence

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

<400> 213
ccucuucauc cugcugcuau a 21

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

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

<400> 214
ccugcugcua ugccucaucu u 21

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

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

<400> 215
caucuucuug uugguucuuc u 21

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

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

<400> 216
ccgucugugc cuucucaucu a 21

<210> 217

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

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

<400> 217
ccucaucuuc uuguugguuc u 21

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

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

<400> 218
ccaccaaaug ccccuaucuu a 21

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

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

<400> 219
gcuccucugc cgauccauac u 21

<210> 220
<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> 220
acucguggug tacuucucuc a 21

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

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

<400> 221
acucguggug gacuucucuc a 21

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

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

<400> 222
acucguggug gacuucucuc a 21

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

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

<400> 223
acucguggug gacuucacuc a 21

<210> 224
<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> 224
acucguggtg tacuucacuc a 21

<210> 225
<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> 225
acucguggug tacuucacuc a 21

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

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

<400> 226
acucguggug gacuucucuc a 21

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

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

<400> 227
acucguggug gacuucucuc a 21

<210> 228
<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> 228
acucguggtg gacuuctcuc a 21

<210> 229
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 229
acucguggug gacuucucuc a 21

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

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

<400> 230
acucguggug gacuucucuc a 21

<210> 231
<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> 231
acucguggtg tacuucacuc a 21

<210> 232
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 232
acucguggug gacuucucuc a 21

<210> 233
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 233
acucguggug gacuucucuc a 21

<210> 234
<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> 234
acucguggtg gacuucacuc a 21

<210> 235
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 235
acucguggug gacuucacuc a 21

<210> 236
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 236
acucguggug gacuucucuc a 21

<210> 237
<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> 237
acucguggtg gacuuctcuc a 21

<210> 238
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 238
acucguggug gacuucucuc a 21

<210> 239
<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> 239
acucguggug gacuuctcuc a 21

<210> 240
<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> 240
acucguggtg tacuucacuc a 21

<210> 241
<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> 241
acucguggtg gacuuctcuc a 21

<210> 242
<211> 20
<212> RNA
<213> Artificial Sequence

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

<400> 242
acucguggug gacuuccuca 20

<210> 243
<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> 243
acucguggug gacuuctcuc a 21

<210> 244
<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> 244
acucguggug gacuuctcuc a 21

<210> 245
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 245
acucguggug gacuucucuc a 21

<210> 246
<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> 246
acucguggtg gacuucacuc a 21

<210> 247
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 247
acucguggug gacuucacuc a 21

<210> 248
<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> 248
acucguggtg gacuucacuc a 21

<210> 249
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 249
acucguggug gacuucucuc a 21

<210> 250
<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> 250
acucguggug gacuuctcuc a 21

<210> 251
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 251
acucguggug gacuucacuc a 21

<210> 252
<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> 252
acucguggtg tacuucacuc a 21

<210> 253
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 253
acucguggug gacuucccuc a 21

<210> 254
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 254
acucguggug gacuucucuc a 21

<210> 255
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 255
acucguggug gacuucucuc a 21

<210> 256
<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> 256
acucguggug gacuuctcuc a 21

<210> 257
<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> 257
acucguggtg gacuuctcuc a 21

<210> 258
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 258
acucguggug gacuucgcuc a 21

<210> 259
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 259
acucguggug gacuucucuc a 21

<210> 260
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 260
acucguggug gacuucucuc a 21

<210> 261
<211> 21
<212> RNA
<213> Artificial Sequence

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

oligonucleotide

<400> 261
acucguggug gacuucucuc a 21

<210> 262
<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> 262
acucguggtg gacuucacuc a 21

<210> 263
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 263
uaccacauca uccauauaac uga 23

<210> 264
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 264
uaaaacgccg cagacacauc cag 23

<210> 265

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

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

<400> 265
ugagagaagu ccaccacgag ucu 23

<210> 266
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 266
ugagagaagu ccaccacgag ucu 23

<210> 267
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 267
ugagagaagu ccaccacgag ucu 23

<210> 268
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 268
ugagagaagu ccaccacgag ucu 23

<210> 269
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 269
ugagagaagu ccaccacgag u 21

<210> 270
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 270
ugagagaagu ccaccacgag ucu 23

<210> 271
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 271
ugagagaagu ccaccacgag ucu 23

<210> 272
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 272

ugagagaagu ccaccacgag ucu 23

<210> 273
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 273
ugagagaagu ccaccacgag ucu 23

<210> 274
<211> 19
<212> RNA
<213> Artificial Sequence

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

<400> 274
ugagagaagu ccaccacga 19

<210> 275
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 275
ugagagaagu ccaccacgag ucu 23

<210> 276
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 276
ugagagaagu ccaccacgau u 21

<210> 277
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 277
ugagagaagu ccaccacgag ucu 23

<210> 278
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 278
ugagagaagu ccaccacgag ucu 23

<210> 279
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 279
ugagagaagu ccaccacgag ucu 23

<210> 280
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 280
ugagagaagu ccaccacgag ucu 23

<210> 281
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 281
ugagagaagu ccaccacgau u 21

<210> 282
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 282
ugagagaagu ccaccacgag ucu 23

<210> 283
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 283
ugagagaagu ccaccacgag ucu 23

<210> 284
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 284
ugagagaagu ccaccacgag ucu 23

<210> 285
<211> 19
<212> RNA
<213> Artificial Sequence

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

<400> 285
ugagagaagu ccaccacga 19

<210> 286
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 286
ugagagaagu ccaccacgag ucu 23

<210> 287
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 287
ugagagaagu ccaccacgau u 21

<210> 288
<211> 23

<212> RNA
<213> Artificial Sequence

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

<400> 288
ugagagaagu ccaccacgag ucu 23

<210> 289
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 289
ugagagaagu ccaccacgag ucu 23

<210> 290
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 290
ugagagaagu ccaccacgag ucu 23

<210> 291
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 291
ugagagaagu ccaccacgag ucu 23

<210> 292
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 292
ugagagaagu ccaccacgag ucu 23

<210> 293
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 293
ugagagaagu ccaccacgag ucu 23

<210> 294
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 294
ugagagaagu ccaccacgag ucu 23

<210> 295
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 295
ugagagaagu ccaccacgag ucu 23

<210> 296
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 296
ugagagaagu ccaccacgag ucu 23

<210> 297
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 297
ugagagaagu ccaccacgag ucu 23

<210> 298
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 298
ugagagaagu ccaccacgag ucu 23

<210> 299
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 299
ugagagaagu ccaccacgag ucu 23

<210> 300
<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> 300
ugagagaagt ccaccacgag ucu 23

<210> 301
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 301
ugagagaagu ccaccacgag ucu 23

<210> 302
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 302
ugagagaagu ccaccacgag ucu 23

<210> 303
<211> 23
<212> RNA

<213> Artificial Sequence

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

<400> 303
ugagagaagu ccaccacgag ucu 23

<210> 304
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 304
ugagagaagu ccaccacgag ucu 23

<210> 305
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 305
ugagagaagu ccaccacgag ucu 23

<210> 306
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 306
ugagagaagu ccaccacgag ucu 23

<210> 307

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

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

<400> 307
ugagagaagu ccaccacgag ucu 23

<210> 308
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 308
ugagagaagu ccaccacgag ucu 23

<210> 309
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 309
ugagagaagu ccaccacgag ucu 23

<210> 310
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 310
aaauugagag aaguccacca cga 23

<210> 311
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 311
aaauugagag aaguccacca cga 23

<210> 312
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 312
aaauugagag aaguccacca cga 23

<210> 313
<211> 19
<212> RNA
<213> Artificial Sequence

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

<400> 313
aaauugagag aaguccacc 19

<210> 314
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 314

aaauugagag aaguccacca cga 23

<210> 315
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 315
aaauugagag aaguccaccu u 21

<210> 316
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 316
aaauugagag aaguccacca cga 23

<210> 317
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 317
aaauugagag aaguccacca cga 23

<210> 318
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 318
aaauugagag aaguccacca cga 23

<210> 319
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 319
aaauugagag aaguccacca c 21

<210> 320
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 320
aaauugagag aaguccacca cga 23

<210> 321
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 321
aaauugagag aaguccaccu u 21

<210> 322
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 322
aaauugagag aaguccacca cga 23

<210> 323
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 323
aaauugagag aaguccacca cga 23

<210> 324
<211> 19
<212> RNA
<213> Artificial Sequence

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

<400> 324
aaauugagag aaguccacc 19

<210> 325
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 325
aaauugagag aaguccacca cga 23

<210> 326
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 326
aaauugagag aaguccaccu u 21

<210> 327
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 327
aaauugagag aaguccacca cga 23

<210> 328
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 328
aaauugagag aaguccacca cga 23

<210> 329
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 329
aaauugagag aaguccacca cga 23

<210> 330
<211> 23

<212> RNA
<213> Artificial Sequence

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

<400> 330
aaauugagag aaguccacca cga 23

<210> 331
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 331
aaauugagag aaguccacca cga 23

<210> 332
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 332
aaauugagag aaguccacca cga 23

<210> 333
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 333
aaauugagag aaguccacca cga 23

<210> 334
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 334
aaauugagag aaguccacca cga 23

<210> 335
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 335
aaauugagag aaguccacca cga 23

<210> 336
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 336
aaauugagag aaguccacca cga 23

<210> 337
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 337
aaauugagag aaguccacca cga 23

<210> 338
<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> 338
aaauugagag aagtccacca cga 23

<210> 339
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 339
aaauugagag aaguccacca cga 23

<210> 340
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 340
aaauugagag aaguccacca cga 23

<210> 341
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 341
aaauugagag aaguccacca cga 23

<210> 342
<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> 342
aaauugagag aagtccacca cga 23

<210> 343
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 343
aaauugagag aaguccacca cga 23

<210> 344
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 344
aaauugagag aaguccacca cga 23

<210> 345
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 345
aaauugagag aaguccacca cga 23

<210> 346
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 346
aaauugagag aaguccacca cga 23

<210> 347
<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> 347
aaauugagag aagtccacca cga 23

<210> 348
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 348
aaauugagag aaguccacca cga 23

<210> 349
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 349
aaauugagag aaguccacca cga 23

<210> 350
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 350
aaauugagag aaguccacca cga 23

<210> 351
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 351
aaauugagag aaguccacca cga 23

<210> 352
<211> 21
<212> RNA
<213> Artificial Sequence

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

<400> 352
aaauugagag aaguccacca c 21

<210> 353
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 353
aaauugagag aaguccacca cga 23

<210> 354
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 354
cagaggugaa gcgaagugca cac 23

<210> 355
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 355
auugugagga uuuuugucaa caa 23

<210> 356
<211> 23

<212> RNA
<213> Artificial Sequence

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

<400> 356
uugugaggau uuuugucaac aag 23

<210> 357
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 357
uaaaauugag agaaguccac cac 23

<210> 358
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 358
ucgaauccac acuccaaaag aca 23

<210> 359
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 359
ucgaauccac acuccaaaag aca 23

<210> 360
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 360
uagcuuggag gcuugaacaa gac 23

<210> 361
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 361
uccgcaguau ggaucggcag agg 23

<210> 362
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 362
uauaaaacgc cgcagacaca ucc 23

<210> 363
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 363
uaugagaagg cacagacggg gag 23

<210> 364
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 364
augaacaaga gaugauuagc gag 23

<210> 365
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 365
gaaguccacc acgagucuag acu 23

<210> 366
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 366
uuccgcagua uggaucggca gag 23

<210> 367
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 367
uauuuuuguc aacaagaaaa acc 23

<210> 368
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 368
uagaagaacc aacaagaaga uga 23

<210> 369
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 369
auuuuuguca acaagaaaaa ccc 23

<210> 370
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 370
uaacaagaga ugauuaggca gag 23

<210> 371
<211> 23
<212> RNA
<213> Artificial Sequence

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

oligonucleotide

<400> 371
uacucugugg uauugugagg auu 23

<210> 372
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 372
uugaggauuu uugucaacaa gaa 23

<210> 373
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 373
aggcagaggu gaaaaaguug cau 23

<210> 374
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 374
uaugcuguag cucuuguucc caa 23

<210> 375
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 375
aauugagaga aguccaccag cag 23

<210> 376
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 376
uaagaugagg cauagcagca gga 23

<210> 377
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 377
aacgccgcag acacauccaa cga 23

<210> 378
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 378
uaggcauagc agcaggauga aga 23

<210> 379
<211> 23
<212> RNA

<213> Artificial Sequence

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

<400> 379
uaggauuuuu gucaacaaga aaa 23

<210> 380
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 380
uaauaccaca ucauccauau aac 23

<210> 381
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 381
gaggcauagc agcaggauga aga 23

<210> 382
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 382
uagaggugaa gcgaagugca cac 23

<210> 383

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

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

<400> 383
uauugugagg auuuuuguca aca 23

<210> 384
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 384
uaaggcacag cuuggaggcu uga 23

<210> 385
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 385
uauagcagca ggaugaagag gaa 23

<210> 386
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 386
aagaugaggc auagcagcag gau 23

<210> 387
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 387
agaagaacca acaagaagau gag 23

<210> 388
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 388
uagaugagaa ggcacagacg ggg 23

<210> 389
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 389
agaaccaaca agaagaugag gca 23

<210> 390
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 390

uaagauaggg gcauuuggug guc 23

<210> 391
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 391
aguauggauc ggcagaggag cca 23

<210> 392
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 392
auugugagga uuuuugucaa caa 23

<210> 393
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 393
uugugaggau uuuugucaac aag 23

<210> 394
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 394
uaaaauugag agaaguccac cac 23

<210> 395
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 395
ucgaauccac acuccaaaag aca 23

<210> 396
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 396
ucgaauccac acuccaaaag aca 23

<210> 397
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 397
uagcuuggag gcuugaacaa gac 23

<210> 398
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 398
uccgcaguau ggaucggcag agg 23

<210> 399
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 399
uaccacauca uccauauaac uga 23

<210> 400
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 400
uauaaaacgc cgcagacaca ucc 23

<210> 401
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 401
uaugagaagg cacagacggg gag 23

<210> 402
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 402
augaacaaga gaugauuagc gag 23

<210> 403
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 403
gaaguccacc acgagucuag acu 23

<210> 404
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 404
uuccgcagua uggaucggca gag 23

<210> 405
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 405
uagaagaacc aacaagaaga uga 23

<210> 406
<211> 23

<212> RNA
<213> Artificial Sequence

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

<400> 406
uccccuagaa aauugagaga agu 23

<210> 407
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 407
ugagagaagu ccaccacgag ucu 23

<210> 408
<211> 23
<212> RNA
<213> Artificial Sequence

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

<400> 408
cagaggugaa gcgaagugca cac 23

<210> 409
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 409
auuuuuguca acaagaaaaa ccc 23

<210> 410
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 410
uaacaagaga ugauuaggca gag 23

<210> 411
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 411
uacucugugg uauugugagg auu 23

<210> 412
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 412
uugaggauuu uugucaacaa gaa 23

<210> 413
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 413
aaauugagag aaguccacca cga 23

<210> 414
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 414
aggcagaggu gaaaaaguug cau 23

<210> 415
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 415
uaugcuguag cucuuguucc caa 23

<210> 416
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 416
uaagaaccaa caagaagaug agg 23

<210> 417
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 417
uaagaugagg cauagcagca gga 23

<210> 418
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 418
aacgccgcag acacauccaa cga 23

<210> 419
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 419
uaggcauagc agcaggauga aga 23

<210> 420
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 420
uaggauuuuu gucaacaaga aaa 23

<210> 421
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 421
uaaaacgccg cagacacauc cag 23

<210> 422
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 422
uaauaccaca ucauccauau aac 23

<210> 423
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 423
gaggcauagc agcaggauga aga 23

<210> 424
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 424
uagaggugaa gcgaagugca cac 23

<210> 425
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 425
uauugugagg auuuuuguca aca 23

<210> 426
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 426
uuugcgucag caaacacuug gca 23

<210> 427
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 427
uuugcgucag caaacacuug gca 23

<210> 428
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 428
uaaggcacag cuuggaggcu uga 23

<210> 429
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 429
uauagcagca ggaugaagag gaa 23

<210> 430
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 430
aagaugaggc auagcagcag gau 23

<210> 431
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 431
agaagaacca acaagaagau gag 23

<210> 432
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 432
uagaugagaa ggcacagacg ggg 23

<210> 433

<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 433
agaaccaaca agaagaugag gca 23

<210> 434
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 434
uaagauaggg gcauuuggug guc 23

<210> 435
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 435
aguauggauc ggcagaggag cca 23

<210> 436
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 436
ugagagaagu ccaccacgag ucu 23

<210> 437
<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> 437
ugagagaagt ccaccacgag ucu 23

<210> 438
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 438
ugagagaagu ccaccacgag ucu 23

<210> 439
<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> 439
ugagagaagt ccaccacgag ucu 23

<210> 440
<211> 23

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 440
ugagagaagu ccaccacgag ucu 23

<210> 441
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 441
ugagagaagu ccaccacgag ucu 23

<210> 442
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 442
ugagagaagu ccaccacgag ucu 23

<210> 443
<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> 443
ugagagaagt ccaccacgag ucu 23

<210> 444
<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> 444
ugagagaagt ccaccacgag ucu 23

<210> 445
<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> 445
ugagagaagt ccaccacgag ucu 23

<210> 446
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 446
ugagagaagu ccaccacgag ucu 23

<210> 447
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 447
ugagagaagu ccaccacgag ucu 23

<210> 448
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 448
ugagagaagu ccaccacgag ucu 23

<210> 449
<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> 449
ugagagaagt ccaccacgag ucu 23

<210> 450
<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> 450
ugagagaagt ccaccacgag ucu 23

<210> 451
<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> 451
ugagagaagt ccaccacgag ucu 23

<210> 452
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 452
ugagagaagu ccaccacgag ucu 23

<210> 453
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 453
ugagagaagu ccaccacgag ucu 23

<210> 454
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 454
ugagagaagu ccaccacgag ucu 23

<210> 455
<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> 455
ugagagaagt ccaccacgag ucu 23

<210> 456
<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> 456
ugagagaagt ccaccacgag ucu 23

<210> 457
<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> 457
ugagagaagt ccaccacgag ucu 23

<210> 458
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 458
ugagagaagu ccaccacgag ucu 23

<210> 459
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 459
ugagagaagu ccaccacgag ucu 23

<210> 460
<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> 460
ugagagaagt ccaccacgag ucu 23

<210> 461
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 461
ugagagaagu ccaccacgag ucu 23

<210> 462
<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> 462
ugagagaagt ccaccacgag ucu 23

<210> 463
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 463
ugagagaagu ccaccacgag ucu 23

<210> 464
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 464
ugagagaagu ccaccacgag ucu 23

<210> 465
<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> 465
ugagagaagt ccaccacgag ucu 23

<210> 466
<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> 466
ugagagaagt ccaccacgag ucu 23

<210> 467
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 467
ugagagaagu ccaccacgag ucu 23

<210> 468
<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> 468
ugagagaagt ccaccacgag ucu 23

<210> 469
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 469
ugagagaagu ccaccacgag ucu 23

<210> 470
<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> 470
ugagagaagt ccaccacgag ucu 23

<210> 471
<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> 471
ugagagaagt ccaccacgag ucu 23

<210> 472
<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> 472
ugagagaagt ccaccacgag ucu 23

<210> 473
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 473
ugagagaagu ccaccacgag ucu 23

<210> 474
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 474
ugagagaagu ccaccacgag ucu 23

<210> 475
<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> 475
ugagagaagt ccaccacgag ucu 23

<210> 476
<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> 476
ugagagaagt ccaccacgag ucu 23

<210> 477
<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> 477
ugagagaagt ccaccacgag ucu 23

<210> 478
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 478
ugagagaagu ccaccacgag ucu 23

<210> 479
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 479
aguuauaugg augauguggu a 21

<210> 480
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 480
ggaugugucu gcggcguuuu a 21

<210> 481
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<400> 481
nacucguggu ggacuucucu ca 22

<210> 482
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 482
acucguggug gacuucucuc a 21

<210> 483
<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> 483
acucguggug gacuuctcuc a 21

<210> 484
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 484
acucguggug gacuucucuc a 21

<210> 485
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 485
ucguggugga cuucucuca 19

<210> 486
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 486
acucguggug gacuucucuc a 21

<210> 487

<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 487
acucguggug gacuucucuc a 21

<210> 488
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 488
acucguggug gacuucucuc a 21

<210> 489
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 489
acucguggug gacuucucuc a 21

<210> 490
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 490
gugguggacu ucucuca 17

<210> 491
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 491
acucguggug gacuucucuc a 21

<210> 492
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<220>
<221> modified_base
<222> (23)..(23)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<400> 492
nucguggugg acuucucuca uun 23

<210> 493
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 493
acucguggug gacuucucuc a 21

<210> 494
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 494
acucguggug gacuucucuc a 21

<210> 495
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 495
acucguggug gacuucucuc a 21

<210> 496
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 496
acucguggug gacuucucuc a 21

<210> 497
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<220>
<221> modified_base
<222> (21)..(21)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<400> 497
nucguggugg acuucucuca n 21

<210> 498
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 498
acucguggug gacuucucuc a 21

<210> 499
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 499
acucguggug gacuucucuc a 21

<210> 500
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 500

acucguggug gacuucucuc a 21

<210> 501
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 501
uauuuccuag gguacaa 17

<210> 502
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 502
acucguggug gacuucucuc a 21

<210> 503
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<220>
<221> modified_base
<222> (21)..(21)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<400> 503

nucguggugg acuucucuca n 21

<210> 504
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 504
acucguggug gacuucucuc a 21

<210> 505
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 505
acucguggug gacuucucuc a 21

<210> 506
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 506
acucguggug gacuucucuc a 21

<210> 507
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 507
acucguggug gacuucucuc a 21

<210> 508
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 508
acucguggug gacuucucuc a 21

<210> 509
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 509
acucguggug gacuucucuc a 21

<210> 510
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 510
acucguggug gacuucucuc a 21

<210> 511
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 511
acucguggug gacuucucuc a 21

<210> 512
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 512
acucguggug gacuucucuc a 21

<210> 513
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 513
acucguggug gacuucucuc a 21

<210> 514
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 514
acucguggug gacuucucuc a 21

<210> 515
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 515
acucguggug gacuucucuc a 21

<210> 516
<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> 516
acucguggug gacuucucuc a 21

<210> 517
<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> 517
acucguggug gacuuctcuc a 21

<210> 518
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 518
acucguggug gacuucucuc a 21

<210> 519
<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> 519
acucguggug gacuuctcuc a 21

<210> 520
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 520
acucguggug gacuucucuc a 21

<210> 521
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 521
acucguggug gacuucucuc a 21

<210> 522

<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> 522
acucguggug gacuuctcuc a 21

<210> 523
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 523
acucguggug gacuucucuc a 21

<210> 524
<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> 524
acucguggug gacuuctcuc a 21

<210> 525
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 525
acucguggug gacuucucuc a 21

<210> 526
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 526
gugguggacu ucucucaauu u 21

<210> 527
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 527
gugguggacu ucucucaauu u 21

<210> 528
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 528
gugguggacu ucucucaauu u 21

<210> 529
<211> 17

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 529
uggacuucuc ucaauuu 17

<210> 530
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 530
gugguggacu ucucucaauu u 21

<210> 531
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<220>
<221> modified_base
<222> (23)..(23)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<400> 531
ngguggacuu cucucaauuu uun 23

<210> 532
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 532
gugguggacu ucucucaauu u 21

<210> 533
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 533
gugguggacu ucucucaauu u 21

<210> 534
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 534
gugguggacu ucucucaauu u 21

<210> 535
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 535
gguggacuuc ucucaauuu 19

<210> 536
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 536
gugguggacu ucucucaauu u 21

<210> 537
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<220>
<221> modified_base
<222> (21)..(21)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<400> 537
ngguggacuu cucucaauuu n 21

<210> 538
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 538
gugguggacu ucucucaauu u 21

<210> 539
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 539
gugguggacu ucucucaauu u 21

<210> 540
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 540
uggacuucuc ucaauuu 17

<210> 541
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 541
gugguggacu ucucucaauu u 21

<210> 542
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base
<222> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<220>
<221> modified_base
<222> (21)..(21)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<400> 542
ngguggacuu cucucaauuu n 21

<210> 543
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 543
gugguggacu ucucucaauu u 21

<210> 544
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 544
gugguggacu ucucucaauu u 21

<210> 545
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 545
gugguggacu ucucucaauu u 21

<210> 546
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 546
gugguggacu ucucucaauu u 21

<210> 547
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 547
gugguggacu ucucucaauu u 21

<210> 548
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 548
gugguggacu ucucucaauu u 21

<210> 549
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 549
gugguggacu ucucucaauu u 21

<210> 550
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 550
gugguggacu ucucucaauu u 21

<210> 551
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 551
gugguggacu ucucucaauu u 21

<210> 552
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 552
gugguggacu ucucucaauu u 21

<210> 553
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 553
gugguggacu ucucucaauu u 21

<210> 554
<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> 554
gugguggact tcucucaauu u 21

<210> 555
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<400> 555
ngugguggac uucucucaau uu 22

<210> 556
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 556
gugguggacu ucucucaauu u 21

<210> 557
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 557
gugguggacu ucucucaauu u 21

<210> 558
<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> 558
gugguggacu tcucucaauu u 21

<210> 559
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 559
gugguggacu ucucucaauu u 21

<210> 560
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 560
gugguggacu ucucucaauu u 21

<210> 561
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 561
gugguggacu ucucucaauu u 21

<210> 562
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 562
gugguggacu ucucucaauu u 21

<210> 563
<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> 563
gugguggacu tcucucaauu u 21

<210> 564
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 564
gugguggacu ucucucaauu u 21

<210> 565
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 565
gugguggacu ucucucaauu u 21

<210> 566
<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> 566
gugguggacu tcucucaauu u 21

<210> 567
<211> 21
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 567
gugguggacu ucucucaauu u 21

<210> 568
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 568
gguggacuuc ucucaauuu 19

<210> 569
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 569
gugguggacu ucucucaauu u 21

<210> 570
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 570
gugcacuucg cuucaccucu g 21

<210> 571

<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 571
guugacaaaa auccucacaa u 21

<210> 572
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 572
uguugacaaa aauccucaca a 21

<210> 573
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 573
gguggacuuc ucucaauuuu a 21

<210> 574
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 574
ucuuuuggag uguggauucg a 21

<210> 575
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 575
ucuuuuggag uguggauucg a 21

<210> 576
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 576
acuguucaag ccuccaagcu a 21

<210> 577
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 577
ucugccgauc cauacugcgg a 21

<210> 578
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 578

augugucugc ggcguuuuau a 21

<210> 579
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 579
ccccgucugu gccuucucau a 21

<210> 580
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 580
gccuaaucau cucuuguuca u 21

<210> 581
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 581
ucuagacucg ugguggacuu c 21

<210> 582
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 582
cugccgaucc auacugcgga a 21

<210> 583
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 583
uuuuucuugu ugacaaaaau a 21

<210> 584
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 584
aucuucuugu ugguucuucu a 21

<210> 585
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 585
guuuuucuug uugacaaaaa u 21

<210> 586
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 586
cugccuaauc aucucuuguu a 21

<210> 587
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 587
uccucacaau accacagagu a 21

<210> 588
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 588
cuuguugaca aaaauccuca a 21

<210> 589
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 589
gcaacuuuuu caccucugcc u 21

<210> 590
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 590
gggaacaaga gcuacagcau a 21

<210> 591
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 591
cgugguggac uucucucaau u 21

<210> 592
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 592
cugcugcuau gccucaucuu a 21

<210> 593
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 593
guuggaugug ucugcggcgu u 21

<210> 594
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 594
uucauccugc ugcuaugccu a 21

<210> 595
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 595
uucuuguuga caaaaauccu a 21

<210> 596
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 596
uauauggaug augugguauu a 21

<210> 597
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 597
uucauccugc ugcuaugccu c 21

<210> 598
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 598
gugcacuucg cuucaccucu a 21

<210> 599
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 599
uugacaaaaa uccucacaau a 21

<210> 600
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 600
aagccuccaa gcugugccuu a 21

<210> 601
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 601
ccucuucauc cugcugcuau a 21

<210> 602
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 602
ccugcugcua ugccucaucu u 21

<210> 603
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 603
caucuucuug uugguucuuc u 21

<210> 604
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 604
ccgucugugc cuucucaucu a 21

<210> 605
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 605
ccucaucuuc uuguugguuc u 21

<210> 606
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 606
ccaccaaaug ccccuaucuu a 21

<210> 607
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 607
gcuccucugc cgauccauac u 21

<210> 608
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 608
guugacaaaa auccucacaa u 21

<210> 609
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 609
uguugacaaa aauccucaca a 21

<210> 610
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 610
gguggacuuc ucucaauuuu a 21

<210> 611
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 611
ucuuuuggag uguggauucg a 21

<210> 612
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 612
acuguucaag ccuccaagcu a 21

<210> 613
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 613
ucugccgauc cauacugcgg a 21

<210> 614
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 614
aguuauaugg augauguggu a 21

<210> 615
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 615
augugucugc ggcguuuuau a 21

<210> 616
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 616
ccccgucugu gccuucucau a 21

<210> 617
<211> 21
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 617
gccuaaucau cucuuguuca u 21

<210> 618
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 618
ucuagacucg ugguggacuu c 21

<210> 619
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 619
cugccgaucc auacugcgga a 21

<210> 620
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 620
aucuucuugu ugguucuucu a 21

<210> 621

<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 621
uucucucaau uuucuagggg a 21

<210> 622
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 622
acucguggug gacuucucuc a 21

<210> 623
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 623
gugcacuucg cuucaccucu g 21

<210> 624
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 624
guuuuucuug uugacaaaaa u 21

<210> 625
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 625
cugccuaauc aucucuuguu a 21

<210> 626
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 626
uccucacaau accacagagu a 21

<210> 627
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 627
cuuguugaca aaaauccuca a 21

<210> 628
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 628

gugguggacu ucucucaauu u 21

<210> 629
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 629
gcaacuuuuu caccucugcc u 21

<210> 630
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 630
gggaacaaga gcuacagcau a 21

<210> 631
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 631
ucaucuucuu guugguucuu a 21

<210> 632
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 632
cugcugcuau gccucaucuu a 21

<210> 633
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 633
guuggaugug ucugcggcgu u 21

<210> 634
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 634
uucauccugc ugcuaugccu a 21

<210> 635
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 635
uucuuguuga caaaaauccu a 21

<210> 636
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 636
ggaugugucu gcggcguuuu a 21

<210> 637
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 637
uauauggaug augugguauu a 21

<210> 638
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 638
uucauccugc ugcuaugccu c 21

<210> 639
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 639
gugcacuucg cuucaccucu a 21

<210> 640
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 640
uugacaaaaa uccucacaau a 21

<210> 641
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 641
ccaaguguuu gcugacgcaa a 21

<210> 642
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 642
ccaaguguuu gcugacgcaa a 21

<210> 643
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 643
aagccuccaa gcugugccuu a 21

<210> 644
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 644
ccucuucauc cugcugcuau a 21

<210> 645
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 645
ccugcugcua ugccucaucu u 21

<210> 646
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 646
caucuucuug uugguucuuc u 21

<210> 647
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 647
ccgucugugc cuucucaucu a 21

<210> 648
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 648
ccucaucuuc uuguugguuc u 21

<210> 649
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 649
ccaccaaaug ccccuaucuu a 21

<210> 650
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 650
gcuccucugc cgauccauac u 21

<210> 651
<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> 651
acucguggug tacuucucuc a 21

<210> 652
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 652
acucguggug gacuucucuc a 21

<210> 653
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 653
acucguggug gacuucucuc a 21

<210> 654
<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> 654
acucguggug gacuucacuc a 21

<210> 655

<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> 655
acucguggtg tacuucacuc a 21

<210> 656
<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> 656
acucguggug tacuucacuc a 21

<210> 657
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 657
acucguggug gacuucucuc a 21

<210> 658
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 658
acucguggug gacuucucuc a 21

<210> 659
<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> 659
acucguggtg gacuuctcuc a 21

<210> 660
<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> 660
acucguggug gacuucucuc a 21

<210> 661
<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> 661
acucguggug gacuucucuc a 21

<210> 662
<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> 662
acucguggtg tacuucacuc a 21

<210> 663
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 663
acucguggug gacuucucuc a 21

<210> 664
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 664

acucguggug gacuucucuc a 21

<210> 665
<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> 665
acucguggtg gacuucacuc a 21

<210> 666
<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> 666
acucguggug gacuucacuc a 21

<210> 667
<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> 667
acucguggug gacuucucuc a 21

<210> 668
<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> 668
acucguggtg gacuuctcuc a 21

<210> 669
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 669
acucguggug gacuucucuc a 21

<210> 670
<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> 670
acucguggug gacuuctcuc a 21

<210> 671
<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> 671
acucguggtg tacuucacuc a 21

<210> 672
<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> 672
acucguggtg gacuuctcuc a 21

<210> 673
<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)

<400> 673
acucguggug gacuucncuc a 21

<210> 674
<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> 674
acucguggug gacuuctcuc a 21

<210> 675
<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> 675
acucguggug gacuuctcuc a 21

<210> 676
<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> 676
acucguggug gacuucucuc a 21

<210> 677
<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> 677
acucguggtg gacuucacuc a 21

<210> 678
<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> 678
acucguggug gacuucacuc a 21

<210> 679
<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> 679
acucguggtg gacuucacuc a 21

<210> 680
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 680
acucguggug gacuucucuc a 21

<210> 681
<211> 22
<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> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-4-methoxy-3-phosphate
(abasic 2'-OMe furanose)

<400> 681
nacucguggu ggacuuctcu ca 22

<210> 682
<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> 682
acucguggug gacuucacuc a 21

<210> 683
<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> 683
acucguggtg tacuucacuc a 21

<210> 684
<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> 684
acucguggug gacuucccuc a 21

<210> 685

<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 685
acucguggug gacuucucuc a 21

<210> 686
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 686
acucguggug gacuucucuc a 21

<210> 687
<211> 22
<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> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-4-methoxy-3-phosphate
(abasic 2'-OMe furanose)

<400> 687
nacucguggu ggacuuctcu ca 22

<210> 688

<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> 688
acucguggtg gacuuctcuc a 21

<210> 689
<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> 689
acucguggug gacuucgcuc a 21

<210> 690
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 690
acucguggug gacuucucuc a 21

<210> 691
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 691
acucguggug gacuucucuc a 21

<210> 692
<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> 692
acucguggug gacuucucuc a 21

<210> 693
<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> 693
acucguggtg gacuucacuc a 21

<210> 694
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 694
uaccacauca uccauauaac uga 23

<210> 695
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 695
uaaaacgccg cagacacauc cag 23

<210> 696
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 696
ugagagaagu ccaccacgag ucu 23

<210> 697
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 697
ugagagaagu ccaccacgag ucu 23

<210> 698
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 698
ugagagaagu ccaccacgag ucu 23

<210> 699
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 699
ugagagaagu ccaccacgag ucu 23

<210> 700
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 700
ugagagaagu ccaccacgag u 21

<210> 701
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 701
ugagagaagu ccaccacgag ucu 23

<210> 702
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 702
ugagagaagu ccaccacgag ucu 23

<210> 703
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 703
ugagagaagu ccaccacgag ucu 23

<210> 704
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 704
ugagagaagu ccaccacgag ucu 23

<210> 705
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 705
ugagagaagu ccaccacga 19

<210> 706

<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 706
ugagagaagu ccaccacgag ucu 23

<210> 707
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 707
ugagagaagu ccaccacgau u 21

<210> 708
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 708
ugagagaagu ccaccacgag ucu 23

<210> 709
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 709
ugagagaagu ccaccacgag ucu 23

<210> 710
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 710
ugagagaagu ccaccacgag ucu 23

<210> 711
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 711
ugagagaagu ccaccacgag ucu 23

<210> 712
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 712
ugagagaagu ccaccacgau u 21

<210> 713
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 713

ugagagaagu ccaccacgag ucu 23

<210> 714
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 714
ugagagaagu ccaccacgag ucu 23

<210> 715
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 715
ugagagaagu ccaccacgag ucu 23

<210> 716
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 716
ugagagaagu ccaccacga 19

<210> 717
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 717
ugagagaagu ccaccacgag ucu 23

<210> 718
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 718
ugagagaagu ccaccacgau u 21

<210> 719
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 719
ugagagaagu ccaccacgag ucu 23

<210> 720
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 720
ugagagaagu ccaccacgag ucu 23

<210> 721
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 721
ugagagaagu ccaccacgag ucu 23

<210> 722
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 722
ugagagaagu ccaccacgag ucu 23

<210> 723
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 723
ugagagaagu ccaccacgag ucu 23

<210> 724
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 724
ugagagaagu ccaccacgag ucu 23

<210> 725
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 725
ugagagaagu ccaccacgag ucu 23

<210> 726
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 726
ugagagaagu ccaccacgag ucu 23

<210> 727
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 727
ugagagaagu ccaccacgag ucu 23

<210> 728
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 728
ugagagaagu ccaccacgag ucu 23

<210> 729
<211> 23

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 729
ugagagaagu ccaccacgag ucu 23

<210> 730
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 730
ugagagaagu ccaccacgag ucu 23

<210> 731
<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> 731
ugagagaagt ccaccacgag ucu 23

<210> 732
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 732
ugagagaagu ccaccacgag ucu 23

<210> 733
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 733
ugagagaagu ccaccacgag ucu 23

<210> 734
<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> 734
ugagagaagu ccaccacgag ucu 23

<210> 735
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 735
ugagagaagu ccaccacgag ucu 23

<210> 736
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 736
ugagagaagu ccaccacgag ucu 23

<210> 737
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 737
ugagagaagu ccaccacgag ucu 23

<210> 738
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 738
ugagagaagu ccaccacgag ucu 23

<210> 739
<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> 739

ugagagaagu ccaccacgag ucu 23

<210> 740
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 740
ugagagaagu ccaccacgag ucu 23

<210> 741
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 741
aaauugagag aaguccacca cga 23

<210> 742
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 742
aaauugagag aaguccacca cga 23

<210> 743
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 743
aaauugagag aaguccacca cga 23

<210> 744
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 744
aaauugagag aaguccacc 19

<210> 745
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 745
aaauugagag aaguccacca cga 23

<210> 746
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 746
aaauugagag aaguccaccu u 21

<210> 747
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 747
aaauugagag aaguccacca cga 23

<210> 748
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 748
aaauugagag aaguccacca cga 23

<210> 749
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 749
aaauugagag aaguccacca cga 23

<210> 750
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 750
aaauugagag aaguccacca c 21

<210> 751
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 751
aaauugagag aaguccacca cga 23

<210> 752
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 752
aaauugagag aaguccaccu u 21

<210> 753
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 753
aaauugagag aaguccacca cga 23

<210> 754
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 754
aaauugagag aaguccacca cga 23

<210> 755
<211> 19

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 755
aaauugagag aaguccacc 19

<210> 756
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 756
aaauugagag aaguccacca cga 23

<210> 757
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 757
aaauugagag aaguccaccu u 21

<210> 758
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 758
aaauugagag aaguccacca cga 23

<210> 759
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 759
aaauugagag aaguccacca cga 23

<210> 760
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 760
aaauugagag aaguccacca cga 23

<210> 761
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 761
aaauugagag aaguccacca cga 23

<210> 762
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 762
aaauugagag aaguccacca cga 23

<210> 763
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 763
aaauugagag aaguccacca cga 23

<210> 764
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 764
aaauugagag aaguccacca cga 23

<210> 765
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 765
aaauugagag aaguccacca cga 23

<210> 766
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 766
aaauugagag aaguccacca cga 23

<210> 767
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 767
aaauugagag aaguccacca cga 23

<210> 768
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 768
aaauugagag aaguccacca cga 23

<210> 769
<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> 769
aaauugagag aagtccacca cga 23

<210> 770
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 770
aaauugagag aaguccacca cga 23

<210> 771
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 771
aaauugagag aaguccacca cga 23

<210> 772
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 772
aaauugagag aaguccacca cga 23

<210> 773
<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> 773

aaauugagag aagtccacca cga 23

<210> 774
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 774
aaauugagag aaguccacca cga 23

<210> 775
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 775
aaauugagag aaguccacca cga 23

<210> 776
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 776
aaauugagag aaguccacca cga 23

<210> 777
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 777
aaauugagag aaguccacca cga 23

<210> 778
<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> 778
aaauugagag aagtccacca cga 23

<210> 779
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 779
aaauugagag aaguccacca cga 23

<210> 780
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 780
aaauugagag aaguccacca cga 23

<210> 781
<211> 23

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 781
aaauugagag aaguccacca cga 23

<210> 782
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 782
aaauugagag aaguccacca cga 23

<210> 783
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 783
aaauugagag aaguccacca c 21

<210> 784
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 784
aaauugagag aaguccacca cga 23

<210> 785
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 785
cagaggugaa gcgaagugca cac 23

<210> 786
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 786
auugugagga uuuuugucaa caa 23

<210> 787
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 787
uugugaggau uuuugucaac aag 23

<210> 788
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 788
uaaaauugag agaaguccac cac 23

<210> 789
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 789
ucgaauccac acuccaaaag aca 23

<210> 790
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 790
ucgaauccac acuccaaaag aca 23

<210> 791
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 791
uagcuuggag gcuugaacaa gac 23

<210> 792
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 792
uccgcaguau ggaucggcag agg 23

<210> 793
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 793
uauaaaacgc cgcagacaca ucc 23

<210> 794
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 794
uaugagaagg cacagacggg gag 23

<210> 795
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 795
augaacaaga gaugauuagc gag 23

<210> 796
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 796
gaaguccacc acgagucuag acu 23

<210> 797
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 797
uuccgcagua uggaucggca gag 23

<210> 798
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 798
uauuuuuguc aacaagaaaa acc 23

<210> 799
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 799
uagaagaacc aacaagaaga uga 23

<210> 800
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 800
auuuuuguca acaagaaaaa ccc 23

<210> 801
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 801
uaacaagaga ugauuaggca gag 23

<210> 802
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 802
uacucugugg uauugugagg auu 23

<210> 803
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 803
uugaggauuu uugucaacaa gaa 23

<210> 804
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 804
aggcagaggu gaaaaaguug cau 23

<210> 805
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 805
uaugcuguag cucuuguucc caa 23

<210> 806
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 806
aauugagaga aguccaccag cag 23

<210> 807
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 807
uaagaugagg cauagcagca gga 23

<210> 808

<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 808
aacgccgcag acacauccaa cga 23

<210> 809
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 809
uaggcauagc agcaggauga aga 23

<210> 810
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 810
uaggauuuuu gucaacaaga aaa 23

<210> 811
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 811
uaauaccaca ucauccauau aac 23

<210> 812
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 812
gaggcauagc agcaggauga aga 23

<210> 813
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 813
uagaggugaa gcgaagugca cac 23

<210> 814
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 814
uauugugagg auuuuuguca aca 23

<210> 815
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 815

uaaggcacag cuuggaggcu uga 23

<210> 816
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 816
uauagcagca ggaugaagag gaa 23

<210> 817
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 817
aagaugaggc auagcagcag gau 23

<210> 818
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 818
agaagaacca acaagaagau gag 23

<210> 819
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 819
uagaugagaa ggcacagacg ggg 23

<210> 820
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 820
agaaccaaca agaagaugag gca 23

<210> 821
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 821
uaagauaggg gcauuuggug guc 23

<210> 822
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 822
aguauggauc ggcagaggag cca 23

<210> 823
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 823
auugugagga uuuuugucaa caa 23

<210> 824
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 824
uugugaggau uuuugucaac aag 23

<210> 825
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 825
uaaaauugag agaaguccac cac 23

<210> 826
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 826
ucgaauccac acuccaaaag aca 23

<210> 827
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 827
uagcuuggag gcuugaacaa gac 23

<210> 828
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 828
uccgcaguau ggaucggcag agg 23

<210> 829
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 829
uaccacauca uccauauaac uga 23

<210> 830
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 830
uauaaaacgc cgcagacaca ucc 23

<210> 831
<211> 23

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 831
uaugagaagg cacagacggg gag 23

<210> 832
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 832
augaacaaga gaugauuagc gag 23

<210> 833
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 833
gaaguccacc acgagucuag acu 23

<210> 834
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 834
uuccgcagua uggaucggca gag 23

<210> 835
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 835
uagaagaacc aacaagaaga uga 23

<210> 836
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 836
uccccuagaa aauugagaga agu 23

<210> 837
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 837
ugagagaagu ccaccacgag ucu 23

<210> 838
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 838
cagaggugaa gcgaagugca cac 23

<210> 839
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 839
auuuuuguca acaagaaaaa ccc 23

<210> 840
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 840
uaacaagaga ugauuaggca gag 23

<210> 841
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 841
uacucugugg uauugugagg auu 23

<210> 842
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 842
uugaggauuu uugucaacaa gaa 23

<210> 843
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 843
aaauugagag aaguccacca cga 23

<210> 844
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 844
aggcagaggu gaaaaaguug cau 23

<210> 845
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 845
uaugcuguag cucuuguucc caa 23

<210> 846
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 846
uaagaaccaa caagaagaug agg 23

<210> 847
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 847
uaagaugagg cauagcagca gga 23

<210> 848
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 848
aacgccgcag acacauccaa cga 23

<210> 849
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 849
uaggcauagc agcaggauga aga 23

<210> 850
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 850
uaggauuuuu gucaacaaga aaa 23

<210> 851
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 851
uaaaacgccg cagacacauc cag 23

<210> 852
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 852
uaauaccaca ucauccauau aac 23

<210> 853
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 853
gaggcauagc agcaggauga aga 23

<210> 854
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 854
uagaggugaa gcgaagugca cac 23

<210> 855
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 855
uauugugagg auuuuuguca aca 23

<210> 856
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 856
uuugcgucag caaacacuug gca 23

<210> 857
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 857
uuugcgucag caaacacuug gca 23

<210> 858

<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 858
uaaggcacag cuuggaggcu uga 23

<210> 859
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 859
uauagcagca ggaugaagag gaa 23

<210> 860
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 860
aagaugaggc auagcagcag gau 23

<210> 861
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 861
agaagaacca acaagaagau gag 23

<210> 862
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 862
uagaugagaa ggcacagacg ggg 23

<210> 863
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 863
agaaccaaca agaagaugag gca 23

<210> 864
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 864
uaagauaggg gcauuuggug guc 23

<210> 865
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 865

aguauggauc ggcagaggag cca 23

<210> 866
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 866
ugagagaagu ccaccacgag ucu 23

<210> 867
<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> 867
ugagagaagt ccaccacgag ucu 23

<210> 868
<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> 868
ugagagaagu ccaccacgag ucu 23

<210> 869
<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> 869
ugagagaagt ccaccacgag ucu 23

<210> 870
<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> 870
ugagagaagu ccaccacgag ucu 23

<210> 871
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 871
ugagagaagu ccaccacgag ucu 23

<210> 872
<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> 872
ugagagaagu ccaccacgag ucu 23

<210> 873
<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> 873
ugagagaagt ccaccacgag ucu 23

<210> 874
<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> 874
ugagagaagt ccaccacgag ucu 23

<210> 875
<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> 875
ugagagaagt ccaccacgag ucu 23

<210> 876
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 876
ugagagaagu ccaccacgag ucu 23

<210> 877
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 877
ugagagaagu ccaccacgag ucu 23

<210> 878
<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> 878
ugagagaagu ccaccacgag ucu 23

<210> 879
<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> 879
ugagagaagt ccaccacgag ucu 23

<210> 880
<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> 880
ugagagaagt ccaccacgag ucu 23

<210> 881
<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> 881
ugagagaagt ccaccacgag ucu 23

<210> 882
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 882
ugagagaagu ccaccacgag ucu 23

<210> 883
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 883
ugagagaagu ccaccacgag ucu 23

<210> 884
<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> 884
ugagagaagu ccaccacgag ucu 23

<210> 885
<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> 885
ugagagaagt ccaccacgag ucu 23

<210> 886
<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> 886
ugagagaagt ccaccacgag ucu 23

<210> 887
<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> 887

ugagagaagt ccaccacgag ucu 23

<210> 888
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 888
ugagagaagu ccaccacgag ucu 23

<210> 889
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 889
ugagagaagu ccaccacgag ucu 23

<210> 890
<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> 890
ugagagaagt ccaccacgag ucu 23

<210> 891
<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> 891
ugagagaagu ccaccacgag ucu 23

<210> 892
<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> 892
ugagagaagt ccaccacgag ucu 23

<210> 893
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 893
ugagagaagu ccaccacgag ucu 23

<210> 894
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 894
ugagagaagu ccaccacgag ucu 23

<210> 895
<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> 895
ugagagaagt ccaccacgag ucu 23

<210> 896
<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> 896
ugagagaagt ccaccacgag ucu 23

<210> 897
<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> 897
ugagagaagu ccaccacgag ucu 23

<210> 898
<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> 898
ugagagaagt ccaccacgag ucu 23

<210> 899
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 899
ugagagaagu ccaccacgag ucu 23

<210> 900
<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> 900
ugagagaagt ccaccacgag ucu 23

<210> 901
<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> 901
ugagagaagt ccaccacgag ucu 23

<210> 902
<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> 902
ugagagaagt ccaccacgag ucu 23

<210> 903
<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> 903
ugagagaagu ccaccacgag ucu 23

<210> 904
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 904
ugagagaagu ccaccacgag ucu 23

<210> 905
<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> 905
ugagagaagt ccaccacgag ucu 23

<210> 906
<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> 906
ugagagaagt ccaccacgag ucu 23

<210> 907
<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> 907
ugagagaagt ccaccacgag ucu 23

<210> 908
<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> 908
ugagagaagu ccaccacgag ucu 23

<210> 909
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 909
ucguggugga cuucucuca 19

<210> 910

<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 910
ucguggugga cuucucuca 19

<210> 911
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 911
ucguggugga cuucucuca 19

<210> 912
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 912
acucguggug gacuucucuc a 21

<210> 913
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 913
ucguggugga cuucucuca 19

<210> 914
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 914
ucguggugga cuucucuca 19

<210> 915
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 915
ucguggugga cuucucucau u 21

<210> 916
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 916
acucguggug gacuucucuc a 21

<210> 917
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 917

ucguggugga cuucucuca 19

<210> 918
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 918
acucguggug gacuucucuc a 21

<210> 919
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 919
gugcacuucg cuucaccucu a 21

<210> 920
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 920
gugcacuucg cuucaccucu a 21

<210> 921
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 921
gcacuucgcu ucaccucua 19

<210> 922
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 922
gugcacuucg cuucaccucu g 21

<210> 923
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 923
augugucugc ggcguuuuau a 21

<210> 924
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 924
gugcacuucg cuucaccucu g 21

<210> 925
<211> 19
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 925
gcacuucgcu ucaccucua 19

<210> 926
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 926
gguggacuuc ucucaauuu 19

<210> 927
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 927
cgugguggac uucucucaau u 21

<210> 928
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 928
gugguggacu ucucucaauu u 21

<210> 929
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 929
cgugguggac uucucucaau u 21

<210> 930
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 930
gguggacuuc ucucaauuu 19

<210> 931
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 931
gugguggacu ucucucaauu u 21

<210> 932
<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> 932
uggugguctu cucuaaauu 19

<210> 933
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 933
gugguggacu ucucucaauu u 21

<210> 934
<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> 934
cgugguggguc tucucuaaau u 21

<210> 935
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 935
gguggacuuc ucucaauuuu a 21

<210> 936
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 936
gguggacuuc ucucaauuuu a 21

<210> 937
<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> 937
uggacuactc ucaaauuua 19

<210> 938
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 938
ugagagaagu ccaccacgau u 21

<210> 939
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 939
ugagagaagu ccaccacgau u 21

<210> 940
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 940
ugagagaagu ccaccacgau u 21

<210> 941
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 941
ugagagaagu ccaccacgag ucu 23

<210> 942
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 942
ugagagaagu ccaccacgau u 21

<210> 943
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 943

ugagagaagu ccaccacgau u 21

<210> 944
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 944
ugagagaagu ccaccacgau u 21

<210> 945
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 945
ugagagaagu ccaccacgag ucu 23

<210> 946
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 946
ugagagaagu ccaccacgau u 21

<210> 947
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 947
ugagagaagu ccaccacgag uuu 23

<210> 948
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 948
uagaggugaa gcgaagugca cuu 23

<210> 949
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 949
uagaggugaa gcgaagugca cac 23

<210> 950
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 950
uagaggugaa gcgaagugca c 21

<210> 951
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 951
cagaggugaa gcgaagugca cac 23

<210> 952
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 952
uauaaaacgc cgcagacaca ucc 23

<210> 953
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 953
cagaggugaa gcgaagugca cac 23

<210> 954
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 954
uagaggugaa gcgaagugcu u 21

<210> 955
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 955
aaauugagag aaguccacca c 21

<210> 956
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 956
aauugagaga aguccaccag cag 23

<210> 957
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 957
aaauugagag aaguccacca cga 23

<210> 958
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 958
aauugagaga aguccaccag cag 23

<210> 959
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 959
aaauugagag aaguccacca c 21

<210> 960
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 960
aaauugagag aaguccacca cga 23

<210> 961
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 961
aauugagaga aguccaccau u 21

<210> 962
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 962
aaauugagag aaguccacca cga 23

<210> 963
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 963
aauugagaga aguccaccag cuu 23

<210> 964
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 964
uaaaauugag agaaguccac cac 23

<210> 965
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 965
uaaaauugag agaaguccac cac 23

<210> 966
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 966
uaaaauugag agaaguccau u 21

<210> 967
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 967
ucguggugga cuucucuca 19

<210> 968
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 968
ucguggugga cuucucuca 19

<210> 969
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<220>
<221> modified_base
<222> (21)..(21)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<400> 969
nucguggugg acuucucuca n 21

<210> 970
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<400> 970
nacucguggu ggacuucucu ca 22

<210> 971
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 971
ucguggugga cuucucuca 19

<210> 972
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 972
ucguggugga cuucucuca 19

<210> 973
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<220>
<221> modified_base
<222> (23)..(23)
<223> 2-hydroxymethyl-tetrahydrofurane-5-phosphate

<400> 973
nucguggugg acuucucuca uun 23

<210> 974
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 974
acucguggug gacuucucuc a 21

<210> 975
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 975
ucguggugga cuucucuca 19

<210> 976
<211> 21
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 976
acucguggug gacuucucuc a 21

<210> 977
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 977
gugcacuucg cuucaccucu a 21

<210> 978
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 978
gugcacuucg cuucaccucu a 21

<210> 979
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 979
gcacuucgcu ucaccucua 19

<210> 980

<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 980
gugcacuucg cuucaccucu g 21

<210> 981
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 981
augugucugc ggcguuuuau a 21

<210> 982
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 982
gugcacuucg cuucaccucu g 21

<210> 983
<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> 983
gcacuucgcu ucaccucua 19

<210> 984
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 984
gguggacuuc ucucaauuu 19

<210> 985
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 985
cgugguggac uucucucaau u 21

<210> 986
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 986
gugguggacu ucucucaauu u 21

<210> 987
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 987
cgugguggac uucucucaau u 21

<210> 988
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 988
gguggacuuc ucucaauuu 19

<210> 989
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 989
gugguggacu ucucucaauu u 21

<210> 990
<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> 990
uggugguctu cucuaaauu 19

<210> 991
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 991
gugguggacu ucucucaauu u 21

<210> 992
<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> 992
cgugguggguc tucucuaaau u 21

<210> 993
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 993
gguggacuuc ucucaauuuu a 21

<210> 994
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 994
gguggacuuc ucucaauuuu a 21

<210> 995
<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> 995
uggacuactc ucaaauuua 19

<210> 996
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 996
ugagagaagu ccaccacgau u 21

<210> 997
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 997
ugagagaagu ccaccacgau u 21

<210> 998

<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 998
ugagagaagu ccaccacgau u 21

<210> 999
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 999
ugagagaagu ccaccacgag ucu 23

<210> 1000
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1000
ugagagaagu ccaccacgau u 21

<210> 1001
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1001
ugagagaagu ccaccacgau u 21

<210> 1002
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1002
ugagagaagu ccaccacgau u 21

<210> 1003
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1003
ugagagaagu ccaccacgag ucu 23

<210> 1004
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1004
ugagagaagu ccaccacgau u 21

<210> 1005
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1005

ugagagaagu ccaccacgag uuu 23

<210> 1006
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1006
uagaggugaa gcgaagugca cuu 23

<210> 1007
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1007
uagaggugaa gcgaagugca cac 23

<210> 1008
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1008
uagaggugaa gcgaagugca c 21

<210> 1009
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1009
cagaggugaa gcgaagugca cac 23

<210> 1010
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1010
uauaaaacgc cgcagacaca ucc 23

<210> 1011
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1011
cagaggugaa gcgaagugca cac 23

<210> 1012
<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> 1012
uagaggugaa gcgaagugcu u 21

<210> 1013
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1013
aaauugagag aaguccacca c 21

<210> 1014
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1014
aauugagaga aguccaccag cag 23

<210> 1015
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1015
aaauugagag aaguccacca cga 23

<210> 1016
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1016
aauugagaga aguccaccag cag 23

<210> 1017
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1017
aaauugagag aaguccacca c 21

<210> 1018
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1018
aaauugagag aaguccacca cga 23

<210> 1019
<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> 1019
aauugagaga aguccaccau u 21

<210> 1020
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 1020
aaauugagag aaguccacca cga 23

<210> 1021
<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> 1021
aauugagaga aguccaccag cuu 23

<210> 1022
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1022
uaaaauugag agaaguccac cac 23

<210> 1023
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1023
uaaaauugag agaaguccac cac 23

<210> 1024

<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> 1024
uaaaauugag agaaguccau u 21

<210> 1025
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1025
ucguggugga cuucucuca 19

<210> 1026
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1026
ucguggugga cuucucuca 19

<210> 1027
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1027
ucguggugga cuucucuca 19

<210> 1028
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1028
gugcacuucg cuucaccucu a 21

<210> 1029
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1029
gugcacuucg cuucaccucu a 21

<210> 1030
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1030
gugcacuucg cuucaccucu a 21

<210> 1031
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1031
cgugguggac uucucucaau u 21

<210> 1032
<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> 1032
cgugguggguc tucucuaaau u 21

<210> 1033
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1033
gguggacuuc ucucaauuuu a 21

<210> 1034
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1034
gguggacuuc ucucaauuuu a 21

<210> 1035
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1035
gguggacuuc ucucaauuuu a 21

<210> 1036
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1036
ugagagaagu ccaccacgau u 21

<210> 1037
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1037
ugagagaagu ccaccacgau u 21

<210> 1038
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1038
ugagagaagu ccaccacgau u 21

<210> 1039
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1039
uagaggugaa gcgaagugca cuu 23

<210> 1040
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1040
uagaggugaa gcgaagugca cuu 23

<210> 1041
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1041
uagaggugaa gcgaagugca cuu 23

<210> 1042
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1042
aauugagaga aguccaccag cag 23

<210> 1043
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1043
aauugagaga aguccaccag cuu 23

<210> 1044
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1044
uaaaauugag agaaguccac cac 23

<210> 1045
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1045
uaaaauugag agaaguccac cac 23

<210> 1046
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 1046
uaaaauugag agaaguccac cac 23

<210> 1047
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1047
ucguggugga cuucucuca 19

<210> 1048
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1048
ucguggugga cuucucuca 19

<210> 1049
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1049
ucguggugga cuucucuca 19

<210> 1050
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1050
gugcacuucg cuucaccucu a 21

<210> 1051
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1051
gugcacuucg cuucaccucu a 21

<210> 1052
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1052
gugcacuucg cuucaccucu a 21

<210> 1053
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1053
cgugguggac uucucucaau u 21

<210> 1054
<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> 1054
cgugggugguc tucucuaaau u 21

<210> 1055
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1055
gguggacuuc ucucaauuuu a 21

<210> 1056
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1056
gguggacuuc ucucaauuuu a 21

<210> 1057
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1057

gguggacuuc ucucaauuuu a 21

<210> 1058
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1058
ugagagaagu ccaccacgau u 21

<210> 1059
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1059
ugagagaagu ccaccacgau u 21

<210> 1060
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1060
ugagagaagu ccaccacgau u 21

<210> 1061
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1061
uagaggugaa gcgaagugca cuu 23

<210> 1062
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1062
uagaggugaa gcgaagugca cuu 23

<210> 1063
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1063
uagaggugaa gcgaagugca cuu 23

<210> 1064
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1064
aauugagaga aguccaccag cag 23

<210> 1065
<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> 1065
aauugagaga aguccaccag cuu 23

<210> 1066
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1066
uaaaauugag agaaguccac cac 23

<210> 1067
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1067
uaaaauugag agaaguccac cac 23

<210> 1068
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1068
uaaaauugag agaaguccac cac 23

<210> 1069
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1069
ugugcacuuc gcuucaccuc u 21

<210> 1070
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1070
ugcacuucgc uucaccucug a 21

<210> 1071
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1071
gugugcacuu cgcuucaccu a 21

<210> 1072
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1072
cgugugcacu ucgcuucacc u 21

<210> 1073
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1073
gugcacuucg cuucaccucu a 21

<210> 1074
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1074
ccgugugcac uucgcuucac a 21

<210> 1075
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1075
cacuucgcuu caccucugca a 21

<210> 1076
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1076
acuucgcuuc accucugcac a 21

<210> 1077
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1077
ggcuguaggc auaaauuggu a 21

<210> 1078
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1078
uucgcuucac cucugcacgu a 21

<210> 1079
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1079
ucgcuucacc ucugcacguc a 21

<210> 1080
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 1080
cuucgcuuca ccucugcacg u 21

<210> 1081
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1081
ccccgucugu gccuucucau a 21

<210> 1082
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1082
ccgucugugc cuucucaucu a 21

<210> 1083
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1083
ccagcaccau gcaacuuuuu a 21

<210> 1084
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1084
caccagcacc augcaacuuu u 21

<210> 1085
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1085
caccaugcaa cuuuuucacc u 21

<210> 1086
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1086
caaugucaac gaccgaccuu a 21

<210> 1087
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1087
cgcuucaccu cugcacgucg a 21

<210> 1088
<211> 21
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1088
accuugaggc auacuucaaa g 21

<210> 1089
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1089
ccgaccuuga ggcauacuuc a 21

<210> 1090
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1090
gaccuugagg cauacuucaa a 21

<210> 1091
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1091
accgaccuug aggcauacuu a 21

<210> 1092

<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1092
ucgcauggag accaccguga a 21

<210> 1093
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1093
uuacauaaga ggacucuugg a 21

<210> 1094
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1094
ucuuacauaa gaggacucuu a 21

<210> 1095
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1095
acuucaaaga cuguuuguuu a 21

<210> 1096
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1096
uacuucaaag acuguuuguu u 21

<210> 1097
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1097
auacuucaaa gacuguuugu u 21

<210> 1098
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1098
uuguuuaaag acugggagga a 21

<210> 1099
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1099

gcauacuuca aagacuguuu a 21

<210> 1100
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1100
caaagacugu uuguuuaaag a 21

<210> 1101
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1101
agacuguuug uuuaaagacu a 21

<210> 1102
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1102
guuuguuuaa agacugggag a 21

<210> 1103
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1103
gggggaggag auuagauuaa a 21

<210> 1104
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1104
ggggaggaga uuagauuaaa g 21

<210> 1105
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1105
guugggggag gagauuagau u 21

<210> 1106
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1106
uuggggggagg agauuagauu a 21

<210> 1107
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1107
gggaggagau uagauuaaag a 21

<210> 1108
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1108
uuagauuaaa ggucuuugua a 21

<210> 1109
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1109
uagauuaaag gucuuuguac u 21

<210> 1110
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1110
auuagauuaa aggucuuugu a 21

<210> 1111
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1111
gaggagauua gauuaaaggu a 21

<210> 1112
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1112
ggacucuugg acucucugca a 21

<210> 1113
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1113
acucuuggac ucucugcaau a 21

<210> 1114
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1114
agauuaaagg ucuuuguacu a 21

<210> 1115
<211> 23

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1115
agaggugaag cgaagugcac acg 23

<210> 1116
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1116
ucagagguga agcgaagugc aca 23

<210> 1117
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1117
uaggugaagc gaagugcaca cgg 23

<210> 1118
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1118
aggugaagcg aagugcacac ggu 23

<210> 1119
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1119
uagaggugaa gcgaagugca cac 23

<210> 1120
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1120
ugugaagcga agugcacacg guc 23

<210> 1121
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1121
uugcagaggu gaagcgaagu gca 23

<210> 1122
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1122
ugugcagagg ugaagcgaag ugc 23

<210> 1123
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1123
uaccaauuua ugccuacagc cuc 23

<210> 1124
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1124
uacgugcaga ggugaagcga agu 23

<210> 1125
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1125
ugacgugcag aggugaagcg aag 23

<210> 1126
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1126
acgugcagag gugaagcgaa gug 23

<210> 1127
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1127
uaugagaagg cacagacggg gag 23

<210> 1128
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1128
uagaugagaa ggcacagacg ggg 23

<210> 1129
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1129
uaaaaaguug cauggugcug gug 23

<210> 1130
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 1130
aaaaguugca uggugcuggu gcg 23

<210> 1131
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1131
aggugaaaaa guugcauggu gcu 23

<210> 1132
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1132
uaaggucggu cguugacauu gca 23

<210> 1133
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1133
ucgacgugca gaggugaagc gaa 23

<210> 1134
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1134
cuuugaagua ugccucaagg ucg 23

<210> 1135
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1135
ugaaguaugc cucaaggucg guc 23

<210> 1136
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1136
uuugaaguau gccucaaggu cgg 23

<210> 1137
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1137
uaaguaugcc ucaaggucgg ucg 23

<210> 1138
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1138
uucacggugg ucuccaugcg acg 23

<210> 1139
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1139
uccaagaguc cucuuaugua aga 23

<210> 1140
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1140
uaagaguccu cuuauguaag acc 23

<210> 1141
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1141
uaaacaaaca gucuuugaag uau 23

<210> 1142

<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1142
aaacaaacag ucuuugaagu aug 23

<210> 1143
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1143
aacaaacagu cuuugaagua ugc 23

<210> 1144
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1144
uuccucccag ucuuuaaaca aac 23

<210> 1145
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1145
uaaacagucu uugaaguaug ccu 23

<210> 1146
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1146
ucuuuaaaca aacagucuuu gaa 23

<210> 1147
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1147
uagucuuuaa acaaacaguc uuu 23

<210> 1148
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1148
ucucccaguc uuuaaacaaa cag 23

<210> 1149
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1149

uuuaaucuaa ucuccucccc caa 23

<210> 1150
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1150
cuuuaaucua aucuccuccc cca 23

<210> 1151
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1151
aaucuaaucu ccucccccaa cuc 23

<210> 1152
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1152
uaaucuaauc uccucccccа acu 23

<210> 1153
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1153
ucuuuaaucu aaucuccucc ccc 23

<210> 1154
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1154
uuacaaagac cuuuaaucua auc 23

<210> 1155
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1155
aguacaaaga ccuuuaaucu aau 23

<210> 1156
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1156
uacaaagacc uuuaaucuaa ucu 23

<210> 1157
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1157
uaccuuuaau cuaaucuccu ccc 23

<210> 1158
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1158
uugcagagag uccaagaguc cuc 23

<210> 1159
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1159
uauugcagag aguccaagag ucc 23

<210> 1160
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1160
uaguacaaag accuuuaauc uaa 23

<210> 1161
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1161
ugugcacuuc gcuucaccuc u 21

<210> 1162
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1162
ugcacuucgc uucaccucug a 21

<210> 1163
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1163
gugugcacuu cgcuucaccu a 21

<210> 1164
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1164
cgugugcacu ucgcuucacc u 21

<210> 1165
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1165
gugcacuucg cuucaccucu a 21

<210> 1166
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1166
ccgugugcac uucgcuucac a 21

<210> 1167
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1167
cacuucgcuu caccucugca a 21

<210> 1168
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1168
acuucgcuuc accucugcac a 21

<210> 1169
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1169
ggcuguaggc auaaauuggu a 21

<210> 1170
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1170
uucgcuucac cucugcacgu a 21

<210> 1171
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1171
ucgcuucacc ucugcacguc a 21

<210> 1172
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1172
cuucgcuuca ccucugcacg u 21

<210> 1173
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1173
ccccgucugu gccuucucau a 21

<210> 1174
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1174
ccgucugugc cuucucaucu a 21

<210> 1175
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1175
ccagcaccau gcaacuuuuu a 21

<210> 1176
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1176
caccagcacc augcaacuuu u 21

<210> 1177
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1177
caccaugcaa cuuuuucacc u 21

<210> 1178
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1178
caaugucaac gaccgaccuu a 21

<210> 1179
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1179
cgcuucaccu cugcacgucg a 21

<210> 1180
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 1180
accuugaggc auacuucaaa g 21

<210> 1181
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1181
ccgaccuuga ggcauacuuc a 21

<210> 1182
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1182
gaccuugagg cauacuucaa a 21

<210> 1183
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1183
accgaccuug aggcauacuu a 21

<210> 1184
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1184
ucgcauggag accaccguga a 21

<210> 1185
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1185
uuacauaaga ggacucuugg a 21

<210> 1186
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1186
ucuuacauaa gaggacucuu a 21

<210> 1187
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1187
acuucaaaga cuguuuguuu a 21

<210> 1188
<211> 21
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1188
uacuucaaag acuguuuguu u 21

<210> 1189
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1189
auacuucaaa gacuguuugu u 21

<210> 1190
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1190
uuguuuaaag acugggagga a 21

<210> 1191
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1191
gcauacuuca aagacuguuu a 21

<210> 1192

<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1192
caaagacugu uuguuuaaag a 21

<210> 1193
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1193
agacuguuug uuuaaagacu a 21

<210> 1194
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1194
guuuguuuaa agacugggag a 21

<210> 1195
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1195
gggggaggag auuagauuaa a 21

<210> 1196
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1196
ggggaggaga uuagauuaaa g 21

<210> 1197
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1197
guugggggag gagauuagau u 21

<210> 1198
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1198
uuggggggagg agauuagauu a 21

<210> 1199
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1199

gggaggagau uagauuaaag a 21

<210> 1200
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1200
uuagauuaaa ggucuuugua a 21

<210> 1201
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1201
uagauuaaag gucuuuguac u 21

<210> 1202
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1202
auuagauuaa aggucuuugu a 21

<210> 1203
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1203
gaggagauua gauuaaaggu a 21

<210> 1204
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1204
ggacucuugg acucucugca a 21

<210> 1205
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1205
acucuuggac ucucugcaau a 21

<210> 1206
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1206
agauuaaagg ucuuuguacu a 21

<210> 1207
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1207
agaggugaag cgaagugcac acg 23

<210> 1208
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1208
ucagagguga agcgaagugc aca 23

<210> 1209
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1209
uaggugaagc gaagugcaca cgg 23

<210> 1210
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1210
aggugaagcg aagugcacac ggu 23

<210> 1211
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1211
uagaggugaa gcgaagugca cac 23

<210> 1212
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1212
ugugaagcga agugcacacg guc 23

<210> 1213
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1213
uugcagaggu gaagcgaagu gca 23

<210> 1214
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1214
ugugcagagg ugaagcgaag ugc 23

<210> 1215
<211> 23

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1215
uaccaauuua ugccuacagc cuc 23

<210> 1216
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1216
uacgugcaga ggugaagcga agu 23

<210> 1217
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1217
ugacgugcag aggugaagcg aag 23

<210> 1218
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1218
acgugcagag gugaagcgaa gug 23

<210> 1219
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1219
uaugagaagg cacagacggg gag 23

<210> 1220
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1220
uagaugagaa ggcacagacg ggg 23

<210> 1221
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1221
uaaaaaguug cauggugcug gug 23

<210> 1222
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1222
aaaaguugca uggugcuggu gcg 23

<210> 1223
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1223
aggugaaaaa guugcauggu gcu 23

<210> 1224
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1224
uaaggucggu cguugacauu gca 23

<210> 1225
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1225
ucgacgugca gaggugaagc gaa 23

<210> 1226
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1226
cuuugaagua ugccucaagg ucg 23

<210> 1227
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1227
ugaaguaugc cucaaggucg guc 23

<210> 1228
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1228
uuugaaguau gccucaaggu cgg 23

<210> 1229
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1229
uaaguaugcc ucaaggucgg ucg 23

<210> 1230
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 1230
uucacggugg ucuccaugcg acg 23

<210> 1231
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1231
uccaagaguc cucuuaugua aga 23

<210> 1232
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1232
uaagaguccu cuuauguaag acc 23

<210> 1233
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1233
uaaacaaaca gucuuugaag uau 23

<210> 1234
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1234
aaacaaacag ucuuugaagu aug 23

<210> 1235
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1235
aacaaacagu cuuugaagua ugc 23

<210> 1236
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1236
uuccucccag ucuuuaaaca aac 23

<210> 1237
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1237
uaaacagucu uugaaguaug ccu 23

<210> 1238
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1238
ucuuuaaaca aacagucuuu gaa 23

<210> 1239
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1239
uagucuuuaa acaaacaguc uuu 23

<210> 1240
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1240
ucucccaguc uuuaaacaaa cag 23

<210> 1241
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1241
uuuaaucuaa ucuccucccc caa 23

<210> 1242

<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1242
cuuuaaucua aucuccuccc cca 23

<210> 1243
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1243
aaucuaaucu ccucccccaa cuc 23

<210> 1244
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1244
uaaucuaauc uccucccccа acu 23

<210> 1245
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1245
ucuuuaaucu aaucuccucc ccc 23

<210> 1246
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1246
uuacaaagac cuuuaaucua auc 23

<210> 1247
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1247
aguacaaaga ccuuuaaucu aau 23

<210> 1248
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1248
uacaaagacc uuuaaucuaa ucu 23

<210> 1249
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1249

uaccuuuaau cuaaucuccu ccc 23

<210> 1250
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1250
uugcagagag uccaagaguc cuc 23

<210> 1251
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1251
uauugcagag aguccaagag ucc 23

<210> 1252
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1252
uaguacaaag accuuuaauc uaa 23

<210> 1253
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1253
gucugugccu ucucaucua 19

<210> 1254
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1254
gucugugccu ucucaucua 19

<210> 1255
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1255
gugugcacuu cgcuucaca 19

<210> 1256
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1256
gugugcacuu cgcuucaca 19

<210> 1257
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1257
ugugcacuuc gcuucaccuc u 21

<210> 1258
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1258
ugugcacuuc gcuucaccuc u 21

<210> 1259
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1259
caccagcacc augcaacuuu u 21

<210> 1260
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1260
caccagcacc augcaacuuu u 21

<210> 1261
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1261
caccaugcaa cuuuuucacc u 21

<210> 1262
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1262
caccaugcaa cuuuuucacc u 21

<210> 1263
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1263
uagaugagaa ggcacagacu u 21

<210> 1264
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1264
uagaugagaa ggcacagacu u 21

<210> 1265
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1265
ugugaagcga agugcacacu u 21

<210> 1266
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1266
ugugaagcga agugcacacu u 21

<210> 1267
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1267
agaggugaag cgaagugcac auu 23

<210> 1268
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1268
agaggugaag cgaagugcac auu 23

<210> 1269
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1269
aaaaguugca uggugcuggu guu 23

<210> 1270
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1270
aaaaguugca uggugcuggu guu 23

<210> 1271
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1271
aggugaaaaa guugcauggu guu 23

<210> 1272
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1272
aggugaaaaa guugcauggu guu 23

<210> 1273
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1273
gucugugccu ucucaucua 19

<210> 1274
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1274
gucugugccu ucucaucua 19

<210> 1275
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1275
gugugcacuu cgcuucaca 19

<210> 1276
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1276
gugugcacuu cgcuucaca 19

<210> 1277
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1277
ugugcacuuc gcuucaccuc u 21

<210> 1278
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1278
ugugcacuuc gcuucaccuc u 21

<210> 1279
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1279
caccagcacc augcaacuuu u 21

<210> 1280
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 1280
caccagcacc augcaacuuu u 21

<210> 1281
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1281
caccaugcaa cuuuuucacc u 21

<210> 1282
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1282
caccaugcaa cuuuuucacc u 21

<210> 1283
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1283
uagaugagaa ggcacagacu u 21

<210> 1284
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1284
uagaugagaa ggcacagacu u 21

<210> 1285
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1285
ugugaagcga agugcacacu u 21

<210> 1286
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1286
ugugaagcga agugcacacu u 21

<210> 1287
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1287
agaggugaag cgaagugcac auu 23

<210> 1288
<211> 23
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1288
agaggugaag cgaagugcac auu 23

<210> 1289
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1289
aaaaguugca uggugcuggu guu 23

<210> 1290
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1290
aaaaguugca uggugcuggu guu 23

<210> 1291
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1291
aggugaaaaa guugcauggu guu 23

<210> 1292

<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1292
aggugaaaaa guugcauggu guu 23

<210> 1293
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1293
ucguggugga cuucucuca 19

<210> 1294
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1294
gugguggacu ucucucaau 19

<210> 1295
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1295
gccgauccau acugcggaa 19

<210> 1296
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1296
ccgauccaua cugcggaac 19

<210> 1297
<211> 19

<212> RNA
<213> Hepatitis B virus

<400> 1297
cauccugcug cuaugccuc 19

<210> 1298
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1298
ugcugcuaug ccucaucuu 19

<210> 1299
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1299
gguggacuuc ucucaauuu 19

<210> 1300
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1300
ugguggacuu cucucaauu 19

<210> 1301
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1301
uagacucgug guggacuuc 19

<210> 1302
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1302
uccucugccg auccauacu 19

<210> 1303
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1303
ugccgaucca uacugcgga 19

<210> 1304
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1304
uggauguguc ugcggcguu 19

<210> 1305
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1305
cgauccauac ugcggaacu 19

<210> 1306
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1306
cgcaccucuc uuuacgcgg 19

<210> 1307
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1307
cugccgaucc auacugcgg 19

<210> 1308
<211> 19
<212> RNA

<213> Hepatitis B virus

<400> 1308
cgugguggac uucucucaa 19

<210> 1309
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1309
cugcugcuau gccucaucu 19

<210> 1310
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1310
ccugcugcua ugccucauc 19

<210> 1311
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1311
cuagacucgu gguggacuu 19

<210> 1312
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1312
uccugcugcu augccucau 19

<210> 1313
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1313
gacucguggu ggacuucuc 19

<210> 1314
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1314
auccauacug cggaacucc 19

<210> 1315
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1315
cucugccgau ccauacugc 19

<210> 1316
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1316
gauccauacu gcggaacuc 19

<210> 1317
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1317
gaagaacucc cucgccucg 19

<210> 1318
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1318
aagccuccaa gcugugccu 19

<210> 1319
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1319
agaagaacuc ccucgccuc 19

<210> 1320
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1320
ggagugugga uucgcacuc 19

<210> 1321
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1321
ccucugccga uccauacug 19

<210> 1322
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1322
caagccucca agcugugcc 19

<210> 1323
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1323
uccauacugc ggaacuccu 19

<210> 1324
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1324
cagagucuag acucguggu 19

<210> 1325
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1325
aagaagaacu cccucgccu 19

<210> 1326
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1326
gaguguggau ucgcacucc 19

<210> 1327
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1327
ucuagacucg ugguggacu 19

<210> 1328
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1328
gcugcuaugc cucaucuuc 19

<210> 1329
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1329
agucuagacu cguggugga 19

<210> 1330
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1330
cuccucugcc gauccauac 19

<210> 1331
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1331
uggcucaguu uacuagugc 19

<210> 1332
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1332
gucuagacuc gugguggac 19

<210> 1333
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1333
uucaagccuc caagcugug 19

<210> 1334
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1334
cuaugggagu gggccucag 19

<210> 1335
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1335
cucguggugg acuucucuc 19

<210> 1336

<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1336
ccuaugggag ugggccuca 19

<210> 1337
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1337
aagaacuccc ucgccucgc 19

<210> 1338
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1338
ucugccgauc cauacugcg 19

<210> 1339
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1339
agagucuaga cucguggug 19

<210> 1340
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1340
gaagaagaac ucccucgcc 19

<210> 1341
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1341

ucaagccucc aagcugugc 19

<210> 1342
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1342
agccuccaag cugugccuu 19

<210> 1343
<211> 19
<212> RNA
<213> Hepatitis B virus

<400> 1343
agacucgugg uggacuucu 19

<210> 1344
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1344
ucguggugga cuucucuca 19

<210> 1345
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1345
gugguggacu ucucucaau 19

<210> 1346
<211> 19
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1346
gccgauccau acugcggaa 19

<210> 1347
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1347
ccgauccaua cugcggaac 19

<210> 1348
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1348
cauccugcug cuaugccuc 19

<210> 1349
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1349
ugcugcuaug ccucaucuu 19

<210> 1350

<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1350
gguggacuuc ucucaauuu 19

<210> 1351
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1351
ugguggacuu cucucaauu 19

<210> 1352
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1352
uagacucgug guggacuuc 19

<210> 1353
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1353
uccucugccg auccauacu 19

<210> 1354
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1354
ugccgaucca uacugcgga 19

<210> 1355
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1355
uggauguguc ugcggcguu 19

<210> 1356
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1356
cgauccauac ugcggaacu 19

<210> 1357
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1357

cgcaccucuc uuuacgcgg 19

<210> 1358
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1358
cugccgaucc auacugcgg 19

<210> 1359
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1359
cgugguggac uucucucaa 19

<210> 1360
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1360
cugcugcuau gccucaucu 19

<210> 1361
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1361
ccugcugcua ugccucauc 19

<210> 1362
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1362
cuagacucgu gguggacuu 19

<210> 1363
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1363
uccugcugcu augccucau 19

<210> 1364
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1364
gacucguggu ggacuucuc 19

<210> 1365
<211> 19
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1365
auccauacug cggaacucc 19

<210> 1366
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1366
cucugccgau ccauacugc 19

<210> 1367
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1367
gauccauacu gcggaacuc 19

<210> 1368
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1368
gaagaacucc cucgccucg 19

<210> 1369
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1369
aagccuccaa gcugugccu 19

<210> 1370
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1370
agaagaacuc ccucgccuc 19

<210> 1371
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1371
ggagugugga uucgcacuc 19

<210> 1372
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1372
ccucugccga uccauacug 19

<210> 1373
<211> 19

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1373
caagccucca agcugugcc 19

<210> 1374
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1374
uccauacugc ggaacuccu 19

<210> 1375
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1375
cagagucuag acucguggu 19

<210> 1376
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1376
aagaagaacu cccucgccu 19

<210> 1377
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1377
gaguguggau ucgcacucc 19

<210> 1378
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1378
ucuagacucg ugguggacu 19

<210> 1379
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1379
gcugcuaugc cucaucuuc 19

<210> 1380
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1380
agucuagacu cguggugga 19

<210> 1381
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1381
cuccucugcc gauccauac 19

<210> 1382
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1382
uggcucaguu uacuagugc 19

<210> 1383
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1383
gucuagacuc gugguggac 19

<210> 1384
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1384
uucaagccuc caagcugug 19

<210> 1385
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1385
cuaugggagu gggccucag 19

<210> 1386
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1386
cucguggugg acuucucuc 19

<210> 1387
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1387
ccuaugggag ugggccuca 19

<210> 1388
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 1388
aagaacuccc ucgccucgc 19

<210> 1389
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1389
ucugccgauc cauacugcg 19

<210> 1390
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1390
agagucuaga cucguggug 19

<210> 1391
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1391
gaagaagaac ucccucgcc 19

<210> 1392
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1392
ucaagccucc aagcugugc 19

<210> 1393
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1393
agccuccaag cugugccuu 19

<210> 1394
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1394
agacucgugg uggacuucu 19

<210> 1395
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1395
ugagagaagu ccaccacga 19

<210> 1396
<211> 19
<212> RNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1396
auugagagaa guccaccac 19

<210> 1397
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1397
uuccgcagua uggaucggc 19

<210> 1398
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1398
guuccgcagu auggaucgg 19

<210> 1399
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1399
gaggcauagc agcaggaug 19

<210> 1400

<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1400
aagaugaggc auagcagca 19

<210> 1401
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1401
aaauugagag aaguccacc 19

<210> 1402
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1402
aauugagaga aguccacca 19

<210> 1403
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1403
gaaguccacc acgagucua 19

<210> 1404
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1404
aguauggauc ggcagagga 19

<210> 1405
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1405
uccgcaguau ggaucggca 19

<210> 1406
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1406
aacgccgcag acacaucca 19

<210> 1407
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1407

aguuccgcag uauggaucg 19

<210> 1408
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1408
ccgcguaaag agaggugcg 19

<210> 1409
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1409
ccgcaguaug gaucggcag 19

<210> 1410
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1410
uugagagaag uccaccacg 19

<210> 1411
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1411
agaugaggca uagcagcag 19

<210> 1412
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1412
gaugaggcau agcagcagg 19

<210> 1413
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1413
aaguccacca cgagucuag 19

<210> 1414
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1414
augaggcaua gcagcagga 19

<210> 1415
<211> 19
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1415
gagaagucca ccacgaguc 19

<210> 1416
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1416
ggaguuccgc aguauggau 19

<210> 1417
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1417
gcaguaugga ucggcagag 19

<210> 1418
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1418
gaguuccgca guauggauc 19

<210> 1419
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1419
cgaggcgagg gaguucuuc 19

<210> 1420
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1420
aggcacagcu uggaggcuu 19

<210> 1421
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1421
gaggcgaggg aguucuucu 19

<210> 1422
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1422
gagugcgaau ccacacucc 19

<210> 1423
<211> 19

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1423
caguauggau cggcagagg 19

<210> 1424
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1424
ggcacagcuu ggaggcuug 19

<210> 1425
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1425
aggaguuccg caguaugga 19

<210> 1426
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1426
accacgaguc uagacucug 19

<210> 1427
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1427
aggcgaggga guucuucuu 19

<210> 1428
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1428
ggagugcgaa uccacacuc 19

<210> 1429
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1429
aguccaccac gagucuaga 19

<210> 1430
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1430
gaagaugagg cauagcagc 19

<210> 1431
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1431
uccaccacga gucuagacu 19

<210> 1432
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1432
guauggaucg gcagaggag 19

<210> 1433
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1433
gcacuaguaa acugagcca 19

<210> 1434
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1434
guccaccacg agucuagac 19

<210> 1435
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1435
cacagcuugg aggcuugaa 19

<210> 1436
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1436
cugaggccca cucccauag 19

<210> 1437
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1437
gagagaaguc caccacgag 19

<210> 1438
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 1438
ugaggcccac ucccauagg 19

<210> 1439
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1439
gcgaggcgag ggaguucuu 19

<210> 1440
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1440
cgcaguaugg aucggcaga 19

<210> 1441
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1441
caccacgagu cuagacucu 19

<210> 1442
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1442
ggcgagggag uucuucuuc 19

<210> 1443
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1443
gcacagcuug gaggcuuga 19

<210> 1444
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1444
aaggcacagc uuggaggcu 19

<210> 1445
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1445
agaaguccac cacgagucu 19