SEQUENCE LISTING

<110> ALNYLAM PHARMACEUTICALS, INC.

<120> PROGRAMMED CELL DEATH 1 LIGAND 1 (PD-L1) IRNA COMPOSITIONS AND METHODS OF USE THEREOF

<130> 121301-04220

<140>
<141>

<150> 62/213,224
<151> 2015-09-02

<160> 221

<170> PatentIn version 3.5

<210> 1
<211> 3349
<212> DNA
<213> Homo sapiens

<400> 1
ggcgcaacgc tgagcagctg gcgcgtcccg cgcggcccca gttctgcgca gcttcccgag 60

gctccgcacc agccgcgctt ctgtccgcct gcagggcatt ccagaaagat gaggatattt 120

gctgtcttta tattcatgac ctactggcat ttgctgaacg ccccatacaa caaaatcaac 180

caaagaattt tggttgtgga tccagtcacc tctgaacatg aactgacatg tcaggctgag 240

ggctacccca aggccgaagt catctggaca agcagtgacc atcaagtcct gagtggtaag 300

accaccacca ccaattccaa gagagaggag aagcttttca atgtgaccag cacactgaga 360

atcaacacaa caactaatga gattttctac tgcactttta ggagattaga tcctgaggaa 420

aaccatacag ctgaattggt catcccagaa ctacctctgg cacatcctcc aaatgaaagg 480

actcacttgg taattctggg agccatctta ttatgccttg gtgtagcact gacattcatc 540

ttccgtttaa gaaaagggag aatgatggat gtgaaaaaat gtggcatcca agatacaaac 600

tcaaagaagc aaagtgatac acatttggag gagacgtaat ccagcattgg aacttctgat 660

cttcaagcag ggattctcaa cctgtggttt aggggttcat cggggctgag cgtgacaaga 720

ggaaggaatg ggcccgtggg atgcaggcaa tgtgggactt aaaaggccca agcactgaaa 780

atggaacctg gcgaaagcag aggaggagaa tgaagaaaga tggagtcaaa cagggagcct 840

ggagggagac cttgatactt tcaaatgcct gaggggctca tcgacgcctg tgacagggag 900

aaaggatact tctgaacaag gagcctccaa gcaaatcatc cattgctcat cctaggaaga 960
cgggttgaga atccctaatt tgagggtcag ttcctgcaga agtgcccttt gcctccactc 1020
aatgcctcaa tttgttttct gcatgactga gagtctcagt gttggaacgg gacagtattt 1080
atgtatgagt ttttcctatt tattttgagt ctgtgaggtc ttcttgtcat gtgagtgtgg 1140
ttgtgaatga tttcttttga agatatattg tagtagatgt tacaattttg tcgccaaact 1200
aaacttgctg cttaatgatt tgctcacatc tagtaaaaca tggagtattt gtaaggtgct 1260
tggtctcctc tataactaca agtatacatt ggaagcataa agatcaaacc gttggttgca 1320
taggatgtca cctttattta acccattaat actctggttg acctaatctt attctcagac 1380
ctcaagtgtc tgtgcagtat ctgttccatt taaatatcag ctttacaatt atgtggtagc 1440
ctacacacat aatctcattt catcgctgta accaccctgt tgtgataacc actattattt 1500
tacccatcgt acagctgagg aagcaaacag attaagtaac ttgcccaaac cagtaaatag 1560
cagacctcag actgccaccc actgtccttt tataatacaa tttacagcta tattttactt 1620
taagcaattc ttttattcaa aaaccattta ttaagtgccc ttgcaatatc aatcgctgtg 1680
ccaggcattg aatctacaga tgtgagcaag acaaagtacc tgtcctcaag gagctcatag 1740
tataatgagg agattaacaa gaaaatgtat tattacaatt tagtccagtg tcatagcata 1800
aggatgatgc gaggggaaaa cccgagcagt gttgccaaga ggaggaaata ggccaatgtg 1860
gtctgggacg gttggatata cttaaacatc ttaataatca gagtaatttt catttacaaa 1920
gagaggtcgg tacttaaaat aaccctgaaa aataacactg gaattccttt tctagcatta 1980
tatttattcc tgatttgcct ttgccatata atctaatgct tgtttatata gtgtctggta 2040
ttgtttaaca gttctgtctt ttctatttaa atgccactaa attttaaatt catacctttc 2100
catgattcaa aattcaaaag atcccatggg agatggttgg aaaatctcca cttcatcctc 2160
caagccattc aagtttcctt tccagaagca actgctactg cctttcattc atatgttctt 2220
ctaaagatag tctacatttg gaaatgtatg ttaaaagcac gtatttttaa aatttttttc 2280
ctaaatagta acacattgta tgtctgctgt gtactttgct atttttattt attttagtgt 2340
ttcttatata gcagatggaa tgaatttgaa gttcccaggg ctgaggatcc atgccttctt 2400
tgtttctaag ttatctttcc catagctttt cattatcttt catatgatcc agtatatgtt 2460
aaatatgtcc tacatataca tttagacaac caccatttgt taagtatttg ctctaggaca 2520

gagtttggat ttgtttatgt ttgctcaaaa ggagacccat gggctctcca gggtgcactg 2580

agtcaatcta gtcctaaaaa gcaatcttat tattaactct gtatgacaga atcatgtctg 2640

gaacttttgt tttctgcttt ctgtcaagta taaacttcac tttgatgctg tacttgcaaa 2700

atcacatttt ctttctggaa attccggcag tgtaccttga ctgctagcta ccctgtgcca 2760

gaaaagcctc attcgttgtg cttgaaccct tgaatgccac cagctgtcat cactacacag 2820

ccctcctaag aggcttcctg gaggtttcga gattcagatg ccctgggaga tcccagagtt 2880

tcctttccct cttggccata ttctggtgtc aatgacaagg agtaccttgg ctttgccaca 2940

tgtcaaggct gaagaaacag tgtctccaac agagctcctt gtgttatctg tttgtacatg 3000

tgcatttgta cagtaattgg tgtgacagtg ttctttgtgt gaattacagg caagaattgt 3060

ggctgagcaa ggcacatagt ctactcagtc tattcctaag tcctaactcc tccttgtggt 3120

gttggatttg taaggcactt tatccctttt gtctcatgtt tcatcgtaaa tggcataggc 3180

agagatgata cctaattctg catttgattg tcacttttg tacctgcatt aatttaataa 3240

aatattctta tttattttgt tacttggtac accagcatgt ccattttctt gtttattttg 3300

tgtttaataa aatgttcagt ttaacatccc agtggagaaa gttaaaaaa 3349

<210> 2
<211> 3349
<212> DNA
<213> Homo sapiens

<400> 2
ttttttaact ttctccactg ggatgttaaa ctgaacattt tattaaacac aaaataaaca 60

agaaaatgga catgctggtg taccaagtaa caaaataaat aagaatattt tattaaatta 120

atgcaggtac aaaaagtgac aatcaaatgc agaattaggt atcatctctg cctatgccat 180

ttacgatgaa acatgagaca aaagggataa agtgccttac aaatccaaca ccacaaggag 240

gagttaggac ttaggaatag actgagtaga ctatgtgcct tgctcagcca caattcttgc 300

ctgtaattca cacaaagaac actgtcacac caattactgt acaaatgcac atgtacaaac 360

agataacaca aggagctctg ttggagacac tgtttcttca gccttgacat gtggcaaagc 420

caaggtactc cttgtcattg acaccagaat atggccaaga gggaaaggaa actctgggat 480

ctcccagggc atctgaatct cgaaacctcc aggaagcctc ttaggagggc tgtgtagtga 540

tgacagctgg tggcattcaa gggttcaagc acaacgaatg aggcttttct ggcacagggt 600

agctagcagt caaggtacac tgccggaatt tccagaaaga aaatgtgatt ttgcaagtac 660

agcatcaaag tgaagtttat acttgacaga aagcagaaaa caaaagttcc agacatgatt 720

ctgtcataca gagttaataa taagattgct ttttaggact agattgactc agtgcaccct 780

ggagagccca tgggtctcct tttgagcaaa cataaacaaa tccaaactct gtcctagagc 840

aaatacttaa caaatggtgg ttgtctaaat gtatatgtag gacatattta acatatactg 900

gatcatatga aagataatga aaagctatgg gaaagataac ttagaaacaa agaaggcatg 960

gatcctcagc cctgggaact tcaaattcat tccatctgct atataagaaa cactaaaata 1020

aataaaaata gcaaagtaca cagcagacat acaatgtgtt actatttagg aaaaaaattt 1080

taaaaatacg tgcttttaac atacatttcc aaatgtagac tatctttaga agaacatatg 1140

aatgaaaggc agtagcagtt gcttctggaa aggaaacttg aatggcttgg aggatgaagt 1200

ggagattttc caaccatctc ccatgggatc ttttgaattt tgaatcatgg aaaggtatga 1260

atttaaaatt tagtggcatt taaatagaaa agacagaact gttaaacaat accagacact 1320

atataaacaa gcattagatt atatggcaaa ggcaaatcag gaataaatat aatgctagaa 1380

aaggaattcc agtgttattt ttcagggtta ttttaagtac cgacctctct ttgtaaatga 1440

aaattactct gattattaag atgtttaagt atatccaacc gtcccagacc acattggcct 1500

atttcctcct cttggcaaca ctgctcgggt tttcccctcg catcatcctt atgctatgac 1560

actggactaa attgtaataa tacattttct tgttaatctc ctcattatac tatgagctcc 1620

ttgaggacag gtactttgtc ttgctcacat ctgtagattc aatgcctggc acagcgattg 1680

atattgcaag ggcacttaat aaatggtttt tgaataaaag aattgcttaa agtaaaatat 1740

agctgtaaat tgtattataa aaggacagtg ggtggcagtc tgaggtctgc tatttactgg 1800

tttgggcaag ttacttaatc tgtttgcttc ctcagctgta cgatgggtaa aataatagtg 1860

gttatcacaa cagggtggtt acagcgatga aatgagatta tgtgtgtagg ctaccacata 1920

attgtaaagc tgatatttaa atggaacaga tactgcacag acacttgagg tctgagaata 1980

agattaggtc aaccagagta ttaatgggtt aaataaaggt gacatcctat gcaaccaacg 2040

gtttgatctt tatgcttcca atgtatactt gtagttatag aggagaccaa gcaccttaca 2100

aatactccat gttttactag atgtgagcaa atcattaagc agcaagttta gtttggcgac 2160

aaaattgtaa catctactac aatatatctt caaaagaaat cattcacaac cacactcaca 2220

tgacaagaag acctcacaga ctcaaaataa ataggaaaaa ctcatacata aatactgtcc 2280

cgttccaaca ctgagactct cagtcatgca gaaaacaaat tgaggcattg agtggaggca 2340

aagggcactt ctgcaggaac tgaccctcaa attagggatt ctcaacccgt cttcctagga 2400

tgagcaatgg atgatttgct tggaggctcc ttgttcagaa gtatcctttc tccctgtcac 2460

aggcgtcgat gagcccctca ggcatttgaa agtatcaagg tctccctcca ggctccctgt 2520

ttgactccat ctttcttcat tctcctcctc tgctttcgcc aggttccatt ttcagtgctt 2580

gggcctttta agtcccacat tgcctgcatc ccacgggccc attccttcct cttgtcacgc 2640

tcagccccga tgaaccccta aaccacaggt tgagaatccc tgcttgaaga tcagaagttc 2700

caatgctgga ttacgtctcc tccaaatgtg tatcactttg cttctttgag tttgtatctt 2760

ggatgccaca ttttttcaca tccatcattc tccctttctt taaacggaag atgaatgtca 2820

gtgctacacc aaggcataat aagatggctc ccagaattac caagtgagtc ctttcatttg 2880

gaggatgtgc cagaggtagt tctgggatga ccaattcagc tgtatggttt tcctcaggat 2940

ctaatctcct aaaagtgcag tagaaaatct cattagttgt tgtgttgatt ctcagtgtgc 3000

tggtcacatt gaaaagcttc tcctctctct tggaattggt ggtggtggtc ttaccactca 3060

ggacttgatg gtcactgctt gtccagatga cttcggcctt ggggtagccc tcagcctgac 3120

atgtcagttc atgttcagag gtgactggat ccacaaccaa aattctttgg ttgattttgt 3180

tgtatggggc gttcagcaaa tgccagtagg tcatgaatat aaagacagca aatatcctca 3240

tctttctgga atgccctgca ggcggacaga agcgcggctg gtgcggagcc tcgggaagct 3300

gcgcagaact ggggccgcgc gggacgcgcc agctgctcag cgttgcgcc 3349

<210> 3
<211> 3566
<212> DNA
<213> Mus musculus

<400> 3
tggtccccaa gcctcatgcc aggctgcact tgcacgtcgc gggccagtct cctcgcctgc 60

agcgtttact atcacggctc caaaggactt gtacgtggtg gagtatggca gcaacgtcac 120

gatggagtgc agattccctg tagaacggga gctggacctg cttgcgttag tggtgtactg 180

ggaaaaggaa gatgagcaag tgattcagtt tgtggcagga gaggaggacc ttaagcctca 240

gcacagcaac ttcaggggga gagcctcgct gccaaaggac cagcttttga agggaaatgc 300

tgcccttcag atcacagacg tcaagctgca ggacgcaggc gtttactgct gcataatcag 360

ctacggtggt gcggactaca agcgaatcac gctgaaagtc aatgccccat accgcaaaat 420

caaccagaga atttccgtgg atccagccac ttctgagcat gaactaatat gtcaggccga 480

gggttatcca gaagctgagg taatctggac aaacagtgac caccaacccg tgagtgggaa 540

gagaagtgtc accacttccc ggacagaggg gatgcttctc aatgtgacca gcagtctgag 600

ggtcaacgcc acagcgaatg atgttttcta ctgtacgttt tggagatcac agccagggca 660

aaaccacaca gcggagctga tcatcccaga actgcctgca acacatcctc cacagaacag 720

gactcactgg gtgcttctgg gatccatcct gttgttcctc attgtagtgt ccacggtcct 780

cctcttcttg agaaaacaag tgagaatgct agatgtggag aaatgtggcg ttgaagatac 840

aagctcaaaa aaccgaaatg atacacaatt cgaggagacg taagcagtgt tgaaccctct 900

gatcgtcgat tggcagcttg tggtctgtga aagaaagggc ccatgggaca tgagtccaaa 960

gactcaagat ggaacctgag ggagagaacc aagaaagtgt tgggagagga gcctggaaca 1020

acggacattt tttccaggga gacactgcta agcaagttgc ccatcagtcg tcttgggaaa 1080

tggattgagg gttcctggct tagcagctgg tccttgcaca gtgacctttt cctctgctca 1140

gtgccgggat gagagatgga gtcatgagtg ttgaagaata agtgccttct atttattttg 1200

agtctgtgtg ttctcacttt gggcatgtaa ttatgactgg tgaattctga cgacatgata 1260

gatcttaaga tgtagtcacc aaactcaact gctgcttagc atcctccgta actactgata 1320

caagcaggga acacagaggt cacctgcttg gtttgacagg ctcttgctgt ctgactcaaa 1380

taatctttat ttttcagtcc tcaaggctct tcgatagcag ttgttctgta tcagccttat 1440

aggtgtcagg tatagcactc aacatctcat ctcattacaa tagcaaccct catcaccata 1500

gcaacagcta acctctgtta tcctcacttc atagccagga agctgagcga ctaagtcact 1560

tgcccacaga gtatcagctc tcagatttct gttcttcagc cactgtcctt tcaggataga 1620

atttgtcgtt aagaaattaa tttaaaaact gattattgag tagcattgta tatcaatcac 1680

aacatgcctt gtgcactgtg ctggcctctg agcataaaga tgtacgccgg agtaccggtc 1740

ggacatgttt atgtgtgtta aatactcaga gaaatgttca ttaacaagga gcttgcattt 1800

tagagacact ggaaagtaac tccagttcat tgtctagcat tacatttacc tcatttgcta 1860

tccttgccat acagtctctt gttctccatg aagtgtcatg aatcttgttg aatagttctt 1920

ttatttttta aatgtttcta tttaaatgat attgacatct gaggcgatag ctcagttggt 1980

aaaacccttt cctcacaagt gtgaaaccct gagtcttatc cctagaaccc acataaaaaa 2040

cagttgcgta tgtttgtgca tgcttttgat cccagcacta gggaggcaga ggcaggcaga 2100

tcctgagctc tcattgacca cccagcctag cctacatggt tagctccagg cctacaggag 2160

ctggcagagc ctgaaaaacg atgcctagac acacacacac acacacacac acacacacac 2220

acacacacac accatgtact catagaccta agtgcaccct cctacacatg cacacacata 2280

caattcaaac acaaatcaac agggaattgt ctcagaatgg tccccaagac aaagaagaag 2340

aaaaacacca aaccagctct attccctcag cctatcctct ctactccttc ctagaagcaa 2400

ctactattgt ttttgtatat aaatttaccc aacgacagtt aatatgtaga atatatatta 2460

aagtgtctgt caatatatat tatctctttc tttctttctt cctttctttc tttctttctt 2520

tctttctttc tttctttctt tctttctttc ttccttcctt ccttccttcc ttccttcctt 2580

ccttcctttc tttctttctt tctttttttc tgtctatctg tacctaaatg gttgctcact 2640

atgcattttc tgtgctcttc gccctttta tttaatgtat ggatatttat gctgcttcca 2700

gaatggatct aaagctcttt gtttctaggt tttctccccc atccttctag gcatctctca 2760

cactgtctag gccagacacc atgtctgctg cctgaatctg tagacaccat ttataaagca 2820

cgtactcacc gagtttgtat ttggcttgtt ctgtgtctga ttaaagggag accatgagtc 2880

cccagggtac actgagttac cccagtacca agggggagcc ttgtttgtgt ctccatggca 2940

gaagcaggcc tggagccatt ttggtttctt ccttgacttc tctcaaacac agacgcctca 3000

cttgctcatt acaggttctc ctttgggaat gtcagcattg ctccttgact gctggctgcc 3060

ctggaaggag cccattagct ctgtgtgagc ccttgacagc tactgcctct ccttaccaca 3120

ggggcctcta agatactgtt acctagaggt cttgaggatc tgtgttctct ggggggagga 3180

aaggaggagg aacccagaac tttcttacag ttttccttgt tctgtcacat gtcaagactg 3240

aaggaacagg ctgggctacg tagtgagatc ctgtctcaaa ggaaagacga gcatagccga 3300

acccccggtg gaacccccctc tgttacctgt tcacacaagc ttattgatga gtctcatgtt 3360

aatgtcttgt ttgtatgaag tttaagaaaa tatcgggttg ggcaacacat tctatttatt 3420

cattttattt gaaatcttaa tgccatctca tggtgttgga ttggtgtggc actttattct 3480

tttgtgttgt gtataaccat aaattttatt ttgcatcaga ttgtcaatgt attgcattaa 3540

tttaataaat atttttattt attaaa 3566

<210> 4
<211> 3566
<212> DNA
<213> Mus musculus

<400> 4
tttaataaat aaaaatattt attaaattaa tgcaatacat tgacaatctg atgcaaaata 60

aaatttatgg ttatacacaa cacaaaagaa taaagtgcca caccaatcca acaccatgag 120

atggcattaa gatttcaaat aaaatgaata aatagaatgt gttgcccaac ccgatatttt 180

cttaaacttc atacaaacaa gacattaaca tgagactcat caataagctt gtgtgaacag 240

gtaacagagg gggttccacc gggggttcgg ctatgctcgt ctttcctttg agacaggatc 300

tcactacgta gcccagcctg ttccttcagt cttgacatgt gacagaacaa ggaaaactgt 360

aagaaagttc tgggttcctc ctcctttcct ccccccagag aacacagatc ctcaagacct 420

ctaggtaaca gtatcttaga ggcccctgtg gtaaggagag gcagtagctg tcaagggctc 480

acacagagct aatgggctcc ttccagggca gccagcagtc aaggagcaat gctgacattc 540

ccaaaggaga acctgtaatg agcaagtgag gcgtctgtgt ttgagagaag tcaaggaaga 600

aaccaaaatg gctccaggcc tgcttctgcc atggagacac aaacaaggct ccccccttggt 660

actggggtaa ctcagtgtac cctggggact catggtctcc ctttaatcag acacagaaca 720

agccaaatac aaactcggtg agtacgtgct ttataaatgg tgtctacaga ttcaggcagc 780

agacatggtg tctggcctag acagtgtgag agatgcctag aaggatgggg gagaaaacct 840

agaaacaaag agctttagat ccattctgga agcagcataa atatccatac attaaataaa 900

aagggcgaag agcacagaaa atgcatagtg agcaaccatt taggtacaga tagacagaaa 960

aaaagaaaga aagaaagaaa ggaaggaagg aaggaaggaa ggaaggaagg aaggaagaaa 1020

gaaagaaaga aagaaagaaa gaaagaaaga aagaaagaaa gaaaggaaga aagaaagaaa 1080

gagataatat atattgacag acactttaat atatattcta catattaact gtcgttgggt 1140

aaatttatat acaaaaacaa tagtagttgc ttctaggaag gagtagagag gataggctga 1200

gggaatagag ctggtttggt gtttttcttc ttctttgtct tggggaccat tctgagacaa 1260

ttccctgttg atttgtgttt gaattgtatg tgtgtgcatg tgtaggaggg tgcacttagg 1320

tctatgagta catggtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtct 1380

aggcatcgtt tttcaggctc tgccagctcc tgtaggcctg gagctaacca tgtaggctag 1440

gctgggtggt caatgagagc tcaggatctg cctgcctctg cctccctagt gctgggatca 1500

aaagcatgca caaacatacg caactgtttt ttatgtgggt tctagggata agactcaggg 1560

tttcacactt gtgaggaaag ggttttacca actgagctat cgcctcagat gtcaatatca 1620

tttaaataga aacatttaaa aaataaaaga actattcaac aagattcatg acacttcatg 1680

gagaacaaga gactgtatgg caaggatagc aaatgaggta aatgtaatgc tagacaatga 1740

actggagtta ctttccagtg tctctaaaat gcaagctcct tgttaatgaa catttctctg 1800

agtatttaac acacataaac atgtccgacc ggtactccgg cgtacatctt tatgctcaga 1860

ggccagcaca gtgcacaagg catgttgtga ttgatataca atgctactca ataatcagtt 1920

tttaaattaa tttcttaacg acaaattcta tcctgaaagg acagtggctg aagaacagaa 1980

atctgagagc tgatactctg tgggcaagtg acttagtcgc tcagcttcct ggctatgaag 2040

tgaggataac agaggttagc tgttgctatg gtgatgaggg ttgctattgt aatgagatga 2100

gatgttgagt gctatacctg acacctataa ggctgataca gaacaactgc tatcgaagag 2160

ccttgaggac tgaaaaataa agattatttg agtcagacag caagagcctg tcaaaccaag 2220

caggtgacct ctgtgttccc tgcttgtatc agtagttacg gaggatgcta agcagcagtt 2280

gagtttggtg actacatctt aagatctatc atgtcgtcag aattcaccag tcataattac 2340

atgcccaaag tgagaacaca cagactcaaa ataaatagaa ggcacttatt cttcaacact 2400

catgactcca tctctcatcc cggcactgag cagaggaaaa ggtcactgtg caaggaccag 2460

ctgctaagcc aggaaccctc aatccatttc ccaagacgac tgatgggcaa cttgcttagc 2520

agtgtctccc tggaaaaaat gtccgttgtt ccaggctcct ctcccaacac tttcttggtt 2580

ctctccctca ggttccatct tgagtctttg gactcatgtc ccatgggccc tttctttcac 2640

agaccacaag ctgccaatcg acgatcagag ggttcaacac tgcttacgtc tcctcgaatt 2700

gtgtatcatt tcggtttttt gagcttgtat cttcaacgcc acatttctcc acatctagca 2760

ttctcacttg ttttctcaag aagaggagga ccgtggacac tacaatgagg aacaacagga 2820

tggatcccag aagcacccag tgagtcctgt tctgtggagg atgtgttgca ggcagttctg 2880

ggatgatcag ctccgctgtg tggttttgcc ctggctgtga tctccaaaac gtacagtaga 2940

aaacatcatt cgctgtggcg ttgaccctca gactgctggt cacattgaga agcatcccct 3000

ctgtccggga agtggtgaca cttctcttcc cactcacggg ttggtggtca ctgtttgtcc 3060

agattacctc agcttctgga taaccctcgg cctgacatat tagttcatgc tcagaagtgg 3120

ctggatccac ggaaattctc tggttgattt tgcggtatgg ggcattgact ttcagcgtga 3180

ttcgcttgta gtccgcacca ccgtagctga ttatgcagca gtaaacgcct gcgtcctgca 3240

gcttgacgtc tgtgatctga agggcagcat ttcccttcaa aagctggtcc tttggcagcg 3300

aggctctccc cctgaagttg ctgtgctgag gcttaaggtc ctcctctcct gccacaaact 3360

gaatcacttg ctcatcttcc ttttcccagt acaccactaa cgcaagcagg tccagctccc 3420

gttctacagg gaatctgcac tccatcgtga cgttgctgcc atactccacc acgtacaagt 3480

cctttggagc cgtgatagta aacgctgcag gcgaggagac tggcccgcga cgtgcaagtg 3540

cagcctggca tgaggcttgg ggacca 3566

<210> 5
<211> 3706
<212> DNA
<213> Rattus norvegicus

<400> 5
tctttgctac ggataagacc aggaaatcgc cctccccagc ctccagccag gctgcagcta 60

cgcgacttgc cagtctcctc gcctacaggt aagtctcaaa ccatgaggat atttgctgtc 120

cttatagtca cagcctgcag tcacgtgcta gcggcattta ccatcacagc tccaaaggac 180

ctgtacgtgg tggagtatgg cagcaatgtc acgatggaat gcagattccc agtagaacag 240

aaattggacc tgcttgcctt agtggtgtac tgggaaaagg aagacaagga agttattcag 300

tttgtggagg gagaggagga cctgaagcct caacacagca gcttcagggg gagagccttc 360

ttgccaaagg accagctttt gaaggggaac gcggtgcttc agatcacaga tgtcaagctg 420

caggacgcag gtgtctactg ctgcatgatc agctatggtg gagcggacta caagcgaatc 480

acattgaaag tcaacgctcc ataccgcaaa atcaaccaaa gaatttccat ggatccagcc 540

acttctgagc atgaactaat gtgccaggct gagggttacc cagaagccga agtgatctgg 600

acaaacagtg accaccagtc cctgagtggg gaaacaactg tcaccacttc ccagactgag 660

gagaagcttc tcaacgtgac cagcgttctg agggtcaacg caacagctaa tgatgttttc 720

cactgtacgt tctggagagt acactcaggg gagaaccaca cggctgaact gatcatccca 780

gaactgcctg taccacgtct cccacataac aggacacact gggtactcct gggatccgtc 840

cttttgttcc tcatcgtggg gttcaccgtc ttcttctgct tgagaaaaca agtgagaatg 900

ctagatgtgg aaaaatgcgg cttcgaagat agaaattcaa agaaccgaaa tgatacacag 960

ttcgaggaga cgtaagcagt gttgaaccct ctgagcctcg aggcgggatt ggcagcttgt 1020

ggtctgtgaa agaaagggcc cgtgggacat gggtccaggg actcaaaaat ggaaccggag 1080

aggagaagag aacaaagaaa gtgttggaag aggagcctgg gacgaaagac atttctacag 1140

gagacactgc taagcaagtt acccatcagt catctcgggc aataagttga gggttcctca 1200

ttttaacagc tggtcctcgc acaagtgacc tttctctcta cccagtgcct ggatgagagg 1260

cagagtcaca agtgttgaag tgtgagtgcc ttctatttac ttccagtccg tgtgttcttg 1320

ctgtgggcat gtggttatga ctagtgacat aataggcgtt aaaatgcagt caccaaactc 1380

aactgctgct tagcatcctc tgtaactact ggcacaagca ggaaacgtgg aggtcacatg 1440

gttcgtttga cgggctcttg ctgtccgact tgagtaatct tcattctcag gcctcaaggt 1500

tctgcagtag tagttgttct ctttaaatat ctgctttaca agtgttgggt actatactca 1560

aacatcttat ttcatcacca tggcaaccct catactaacc tctgtcatac tcccttcata 1620

gccaagacgc tgagtgtctg agtaacttga ccacaaaatg acagctatca gatttctatt 1680

tttcagacac tgtcctttca ggatagaatt tgtagctaag aatttaataa taaaaaaaaa 1740

accccgctta ttaggcactt ccacaccaca ccatgccttg tgcactgctc tggcctctga 1800

cagagaagga agccagagtg ccggtcggat ttgcttatgt gtgttcaata ctcaaatcaa 1860

tgctcattaa catggagtct gcattttaaa gacactctcc agttctttgt ctagcattat 1920

atttacctct aatctgttat ccctgccaaa caatctcatg ttctccatga agtgtctagt 1980

cttgttgagt agttcttttt ttttttttc tatttaaatg atattgacat ctgaggagac 2040

agctcagttg gtagaattct ttccttacaa gtgggaaacc ctgttttatc cccagaaccc 2100

acataaaaaa cagttgcgta tatctgtgca tgcttaatcc aagcactagg gaggcagaga 2160

caggcagatc tctagctctc accgatcagc cagctccagg tctacaagag ctgacagtgc 2220

ctgagaaaca tgtctacaca cacacacata cacactctca catacatgga ccatgtactc 2280

atacacctaa gtggactctc ttagtgaaca cacatacaat ggtccccaag acaaaacaaa 2340

acaaaaaaaa aataaaccaa actagctcta ttccatcagc ctagccatgc tactcccttc 2400

ccagaagcaa ctgctattgt ttttgcacat atattttctt aaagacagtt aatatgtata 2460

aatctttgtt aaagtatgtc tgtctgtctg cctgcctgcc tacctatcta cctatctatc 2520

tatccatcca tccatccatc catccaccca tctgtccatc cgtctgtctg tccatctgtc 2580

tgtctatcta cctatctacc tacctacata cctatcatct gtctgtctgt ctttcctaaa 2640

tggtatagga aaactgtacg ttttctatgc actttgccct tttcatttag tgtattgata 2700

cttatgctgc ttccagactg atctaaagat ccataaagag aactgcctca tttctaggtt 2760

ttctttccca tccctctagg cacctctcac actgtctagg ccagacactt gctgcctgta 2820

tctgtagaca tcatttataa agtgtgtact caccgagttt gtgtctactc aaagggaggc 2880

catgggtccc cagggtcact gagtcaaccc agtaccaagg tggagccttg tatctccatg 2940

gcagaagcaa atctggggcc atttctgttt cttccttgac ttcttttcta aaacacagat 3000

gctctaatta cttattacag gttgtccctg gtaatgtcag cattgctcct agacttctgg 3060

gtgccctgga aaagcccgtt agctctgtgt gaacccttaa ggcagctgtc tctccttacc 3120

tcatagacac tgtttcctgg agggtttgag atactgtttc caaaaggtgt tcacttgggc 3180

gaggagggga gggggagccc agaactttgt tactattttc tttgttttgt cacatgtcaa 3240

ggctgaagaa agagcctggg tatgttggcg catgtctcca gttgcaggca gaggcaggtg 3300

gatctctgtg agtttgtggc cagcctggtc tccatagtga attctaagcc agccagggct 3360

cggttacata gtgagatccc gtctcaaagg aaagactggc ctatcagaac ccccagtgaa 3420

acccccttctg ttacttgttc acacatgttt gttgatgatt ctcgtgttaa tgtcttgttt 3480

gtatgacgtt caagaaaaga tctggttggg caacacattg tatttattca tcttattcaa 3540

aatcttaatg ccatctcatg gcattggatt ggtatggcac tttattcttt tgtgttctgt 3600

ataaccacaa atggaaattt tattttgtgt ctgattgtca ttgtattgca ttaatttaat 3660

aagatattat ttattaaaaa catttgattt ttttcttttt taaaaa 3706

<210> 6
<211> 3706
<212> DNA
<213> Rattus norvegicus

<400> 6

```
ttttaaaaa agaaaaaaat caaatgtttt taataaataa tatcttatta aattaatgca       60
atacaatgac aatcagacac aaaataaaat ttccatttgt ggttatacag aacacaaaag      120
aataaagtgc cataccaatc caatgccatg agatggcatt aagattttga ataagatgaa      180
taaatacaat gtgttgccca accagatctt ttcttgaacg tcatacaaac aagacattaa      240
cacgagaatc atcaacaaac atgtgtgaac aagtaacaga aggggtttca ctgggggttc      300
tgataggcca gtctttcctt tgagacggga tctcactatg taaccgagcc ctggctggct      360
tagaattcac tatggagacc aggctggcca caaactcaca gagatccacc tgcctctgcc      420
tgcaactgga gacatgcgcc aacataccca ggctctttct tcagccttga catgtgacaa      480
aacaaagaaa atagtaacaa agttctgggc tccccctccc ctcctcgccc aagtgaacac      540
cttttggaaa cagtatctca aaccctccag gaaacagtgt ctatgaggta aggagagaca      600
gctgccttaa gggttcacac agagctaacg ggcttttcca gggcacccag aagtctagga      660
gcaatgctga cattaccagg gacaacctgt aataagtaat tagagcatct gtgttttaga      720
aaagaagtca aggaagaaac agaaatggcc ccagatttgc ttctgccatg gagatacaag      780
gctccacctt ggtactgggt tgactcagtg accctgggga cccatggcct ccctttgagt      840
agacacaaac tcggtgagta cacactttat aaatgatgtc tacagataca ggcagcaagt      900
gtctggccta gacagtgtga gaggtgccta gagggatggg aaagaaaacc tagaaatgag      960
gcagttctct ttatggatct ttagatcagt ctggaagcag cataagtatc aatacactaa     1020
atgaaaaggg caaagtgcat agaaaacgta cagttttcct ataccattta ggaaagacag     1080
acagacagat gataggtatg taggtaggta gataggtaga tagacagaca gatggacaga     1140
cagacggatg gacagatggg tggatggatg gatggatgga tggatagata gataggtaga     1200
taggtaggca ggcaggcaga cagacagaca tactttaaca aagatttata catattaact     1260
gtctttaaga aaatatatgt gcaaaaacaa tagcagttgc ttctgggaag ggagtagcat     1320
ggctaggctg atggaataga gctagtttgg tttatttttt ttttgttttg ttttgtcttg     1380
gggaccattg tatgtgtgtt cactaagaga gtccacttag gtgtatgagt acatggtcca     1440
tgtatgtgag agtgtgtatg tgtgtgtgtg tagacatgtt tctcaggcac tgtcagctct     1500
tgtagacctg gagctggctg atcggtgaga gctagagatc tgcctgtctc tgcctcccta     1560
gtgcttggat taagcatgca cagatatacg caactgtttt ttatgtgggt tctggggata     1620
```

aaacagggtt tcccacttgt aaggaaagaa ttctaccaac tgagctgtct cctcagatgt 1680
caatatcatt taaatagaaa aaaaaaaaaa agaactactc aacaagacta gacacttcat 1740
ggagaacatg agattgtttg gcagggataa cagattagag gtaaatataa tgctagacaa 1800
agaactggag agtgtcttta aaatgcagac tccatgttaa tgagcattga tttgagtatt 1860
gaacacacat aagcaaatcc gaccggcact ctggcttcct tctctgtcag aggccagagc 1920
agtgcacaag gcatggtgtg gtgtggaagt gcctaataag cggggttttt tttttattat 1980
taaattctta gctacaaatt ctatcctgaa aggacagtgt ctgaaaaata gaaatctgat 2040
agctgtcatt ttgtggtcaa gttactcaga cactcagcgt cttggctatg aagggagtat 2100
gacagaggtt agtatgaggg ttgccatggt gatgaaataa gatgtttgag tatagtaccc 2160
aacacttgta aagcagatat ttaaagagaa caactactac tgcagaacct tgaggcctga 2220
gaatgaagat tactcaagtc ggacagcaag agcccgtcaa acgaaccatg tgacctccac 2280
gtttcctgct tgtgccagta gttacagagg atgctaagca gcagttgagt ttggtgactg 2340
cattttaacg cctattatgt cactagtcat aaccacatgc ccacagcaag aacacacgga 2400
ctggaagtaa atagaaggca ctcacacttc aacacttgtg actctgcctc tcatccaggc 2460
actgggtaga gagaaaggtc acttgtgcga ggaccagctg ttaaaatgag gaaccctcaa 2520
cttattgccc gagatgactg atgggtaact tgcttagcag tgtctcctgt agaaatgtct 2580
ttcgtcccag gctcctcttc caacactttc tttgttctct tctcctctcc ggttccattt 2640
ttgagtccct ggacccatgt cccacgggcc ctttctttca cagaccacaa gctgccaatc 2700
ccgcctcgag gctcagaggg ttcaacactg cttacgtctc ctcgaactgt gtatcatttc 2760
ggttctttga atttctatct tcgaagccgc atttttccac atctagcatt ctcacttgtt 2820
ttctcaagca gaagaagacg gtgaacccca cgatgaggaa caaaaggacg gatcccagga 2880
gtacccagtg tgtcctgtta tgtgggagac gtggtacagg cagttctggg atgatcagtt 2940
cagccgtgtg gttctcccct gagtgtactc tccagaacgt acagtggaaa acatcattag 3000
ctgttgcgtt gaccctcaga acgctggtca cgttgagaag cttctcctca gtctgggaag 3060
tggtgacagt tgtttcccca ctcagggact ggtggtcact gtttgtccag atcacttcgg 3120
cttctgggta accctcagcc tggcacatta gttcatgctc agaagtggct ggatccatgg 3180
aaattctttg gttgattttg cggtatggag cgttgacttt caatgtgatt cgcttgtagt 3240

ccgctccacc atagctgatc atgcagcagt agacacctgc gtcctgcagc ttgacatctg 3300

tgatctgaag caccgcgttc cccttcaaaa gctggtcctt tggcaagaag gctctccccc 3360

tgaagctgct gtgttgaggc ttcaggtcct cctctccctc cacaaactga ataacttcct 3420

tgtcttcctt ttcccagtac accactaagg caagcaggtc caatttctgt tctactggga 3480

atctgcattc catcgtgaca ttgctgccat actccaccac gtacaggtcc tttggagctg 3540

tgatggtaaa tgccgctagc acgtgactgc aggctgtgac tataaggaca gcaaatatcc 3600

tcatggtttg agacttacct gtaggcgagg agactggcaa gtcgcgtagc tgcagcctgg 3660

ctggaggctg gggagggcga tttcctggtc ttatccgtag caaaga 3706

<210> 7
<211> 3909
<212> DNA
<213> Macaca fascicularis

<400> 7
aaatcaaggt gcgttcagat gttggcttgt tgtaaatttc tgtttatatt aataacatac 60

caaatgtgga tttgttttaa tcttcggaac tctttccggt gaaaacctca tttacaagaa 120

aactggactg acaggtttca ctttctgttt catttctata catagcttta ttcctaggac 180

accaacacca ctcgctaccc aaactgaaag cttccccgat tccgccgaag gtcaggaaag 240

tccaatgccg ggcaaactgg atttgctgcc ttgcgcagag gtgggcggga ccccgcctcc 300

gggccgggcg ccaagttgag cagctggcac gcctcgcgaa gccccagtcc tgaagcccca 360

gtcctgcgct gcttcccgag gctccgcacc agccgcgctt ctctctgcct gcagcacatt 420

ccagaaagat gaggatattt gctgtcttta tattcacgat ctactggcat ttgctgaatg 480

catttactgt cacggttccc aaggacctat atgtggtaga gtatggcagc aatatgacaa 540

ttgaatgcaa attcccagta gaaaaacaat tagacctgac ttcactaatt gtctattggg 600

aaatggagga taagaacatt attcaatttg tgcatggaga ggaagacctg aaggttcagc 660

atagtaacta cagacagagg gcccagctgt tgaaggacca gctctccctg ggaaatgctg 720

cacttcggat cacagatgtg aaattgcagg atgcaggggt ttaccgctgc atgatcagct 780

atggtggtgc cgactacaag cggattaccg tgaaagtcaa tgctccatac aacaaaatca 840

accaaagaat tttggttgtc gatccagtca cctctgaaca tgaactaaca tgtcaggctg 900

agggctaccc caaggccgaa gtcatttgga caagcagtga ccatcaagtc ctgagtggta 960

agaccaccac caccaattcc aagagagagg agaagctttt aaatgtgacc agcacactga 1020

gaatcaacac aacagctaat gagattttct actgcatttt taggagatta gatcctgagg 1080

aaaaccatac agctgaattg gtcatcccag aactacctct ggcgcttcct ccaaatgaaa 1140

ggactcactt ggtaattctg ggagccatct ttttactcct tggtgtagca ctgacattca 1200

tcttctattt aagaaaaggg agaatgatgg atatgaaaaa atgtggcatt cgagttacaa 1260

actcaaagaa gcaacgtgat acacaattgg aggagacgta atccagcatt ggaacttctg 1320

atcttcaagc agggattctc agcctgtggt ttgggggttc gtcagggctg agcatgacca 1380

gaggaatgaa tgggcccgtg ggatgcatgc agtatgggac ttaaaaggcc caagcactga 1440

aaatggaacc tggcgaaagc agaggaggag aatgaagaaa aatggagttg aacagggagc 1500

gtggagggag accttgatac tttcaaatgc ctgaggggct catcggtgca tgtgacaggg 1560

agaaaggata cttctgaaca aggagcctcc aagcaaatca tccactgctc atcttaggaa 1620

aacgggttga gaatccctaa tttgagggtc agttcctgca gaagtgccct ttgcctccac 1680

tcaatgcctc aatttgtttt ctgcgtgact gagggtccca gtgttggaac agtatttatg 1740

tatgagattt tcctatttat tttgagtctg tgaggtcttc ttgtcatggg agtgtggttg 1800

tgaatgattt cttttgaaga tatattgtag tagatgttac aattttgtcg ccaaactaaa 1860

cttgatgctt aatgacttgc tcacatctag taaaacatgg agtatttgta aggtgcttgg 1920

tctcctctat aactacaagt acacattgga agcataaaga tcaaaccgtt gatttgtata 1980

ggatgtcacc tttatttaac ccattaatac tctgattgac ttaatcttat tctcagacct 2040

caagtgtctg tgcagtatct gttccattta aatatcagct ttataattat gtggtaccat 2100

acacacataa tctcctttca tcgctgtaac caccctgttg tgatgaccac tattatttta 2160

cccattgtac agctgaggaa gcaaacagat taagtaactt gccaaaacca gtaaatagca 2220

gagctcagac tgccacccac tgtcctttta taatacaatt tacagctata ttttacttta 2280

agcaattcat ttattcaaaa cccatttatt aagtgccctt gcaatatcaa tcactgtacc 2340

aggcattgaa tctacagatg tgagcaagag aaagtacctg tcctcaagga gcttggagta 2400

taataaggag attaataaga aaatatatta ttacaatcta gtccagtgtc atagcataag 2460

gatgatgtga ggagaaaagc tgagcagtgt tgccaagagg aggaaatagg ccaatgtggt 2520

ctgggacagt tgaatgtatt taaacatctt aataatcaaa gtaattttca tttacaaaga 2580

gaagtcagta cttaaaataa ccctgaaaaa taacactgga attccttttc tagcattata 2640

tttatccctg atttgccttt gccatacaat ctaatgcttg tttatatagt gtctgatatt 2700

gtttaacagt tctgtctttt ctattcaaat gctattaaat tttaaattca tacctttcca 2760

tgattcaaaa ttcaaaagat cccatgggag atggtttgaa aatctccact tcatcctcca 2820

agccattcaa gtttcctttc cagaagcaac tgctactgcc ttttattcat atgttcttct 2880

aaagatagtc tacatttgga aatgtatgtt aaaagcatat atttttaaat ttttttccct 2940

aaatagtaac acattatatg tctgctgtgc actttgctat ttttatttat tgtagtgttt 3000

cttatgtagc agatggaatg aatttgaagc tcccaagggt caggacacat gccttctttg 3060

tttctaagtt atctttccca tagcttttca taatctttca tatgatttag tacatgttaa 3120

atatgtgcta catatacatt tagacaacca gcatttgtta agtatttgct ctaggactga 3180

gtttggattt atgtttgctc aaaaggagac ccatgggctc tccagggtgc actgagtcaa 3240

tctagtccta aaaagcaatc ttattattaa ctctgtatga cagaatcata tctggaactt 3300

ttgttttctg ctttctgtca agtataaact tcactttgat gctgtacttg caaaatcaca 3360

ttttctttct ggaaattcca gtagtgtacc ttgactgcta gttaccctgt gccagaaaag 3420

cctcattcgt tgtgcttgaa ccctttaatg ccaccagctg tcatcactac acaggcctcc 3480

taagaggctt cctggaggtt ttgagattca gatgccctga gagatcccag agtttccttt 3540

ccctcttggc cacattctgg tgtcagtgac aaggaatacc ttcgctttgc cacccgtcaa 3600

ggttgaagaa acagcgtctc caacagagct ccttgtgtta tctgtttgta catgtgcatt 3660

tgtacagtaa tttgtgtgac agtgttcttt gtgtgaatta caggcaagaa ctgtggctga 3720

gcaaggcaca tagtctactc agtctattcc taactcctcc ttttggtgtt ggatttgtaa 3780

ggcactttat ccctttgtc tcatgtttca tcgtaaatgg cataggcaga gatgatatct 3840

aattctgcat ttgattgtca ctttttgtac ctgcattaat ttaataaaat atccttattt 3900

attttgtta 3909

<210> 8
<211> 3909
<212> DNA
<213> Macaca fascicularis

<400> 8

```
taacaaaata aataaggata ttttattaaa ttaatgcagg tacaaaaagt gacaatcaaa       60
tgcagaatta gatatcatct ctgcctatgc catttacgat gaaacatgag acaaaaggga      120
taaagtgcct tacaaatcca acaccaaaag gaggagttag gaatagactg agtagactat      180
gtgccttgct cagccacagt tcttgcctgt aattcacaca aagaacactg tcacacaaat      240
tactgtacaa atgcacatgt acaaacagat aacacaagga gctctgttgg agacgctgtt      300
tcttcaacct tgacgggtgg caaagcgaag gtattccttg tcactgacac cagaatgtgg      360
ccaagaggga aaggaaactc tgggatctct cagggcatct gaatctcaaa acctccagga      420
agcctcttag gaggcctgtg tagtgatgac agctggtggc attaaagggt tcaagcacaa      480
cgaatgaggc ttttctggca cagggtaact agcagtcaag gtacactact ggaatttcca      540
gaaagaaaat gtgattttgc aagtacagca tcaaagtgaa gtttatactt gacagaaagc      600
agaaaacaaa agttccagat atgattctgt catacagagt taataataag attgcttttt      660
aggactagat tgactcagtg caccctggag agcccatggg tctccttttg agcaaacata      720
aatccaaact cagtcctaga gcaaatactt aacaaatgct ggttgtctaa atgtatatgt      780
agcacatatt taacatgtac taaatcatat gaaagattat gaaaagctat gggaaagata      840
acttagaaac aaagaaggca tgtgtcctga cccttgggag cttcaaattc attccatctg      900
ctacataaga aacactacaa taaataaaaa tagcaaagtg cacagcagac atataatgtg      960
ttactattta gggaaaaaaa tttaaaaata tatgctttta acatacattt ccaaatgtag     1020
actatcttta gaagaacata tgaataaaag gcagtagcag ttgcttctgg aaaggaaact     1080
tgaatggctt ggaggatgaa gtggagattt tcaaaccatc tcccatggga tcttttgaat     1140
tttgaatcat ggaaaggtat gaatttaaaa tttaatagca tttgaataga aaagacagaa     1200
ctgttaaaca atatcagaca ctatataaac aagcattaga ttgtatggca aaggcaaatc     1260
agggataaat ataatgctag aaaaggaatt ccagtgttat ttttcagggt tattttaagt     1320
actgacttct ctttgtaaat gaaaattact ttgattatta agatgtttaa atacattcaa     1380
ctgtcccaga ccacattggc ctatttcctc ctcttggcaa cactgctcag cttttctcct     1440
cacatcatcc ttatgctatg acactggact agattgtaat aatatatttt cttattaatc     1500
tccttattat actccaagct ccttgaggac aggtactttc tcttgctcac atctgtagat     1560
tcaatgcctg gtacagtgat tgatattgca agggcactta ataaatgggt tttgaataaa     1620
```

tgaattgctt aaagtaaaat atagctgtaa attgtattat aaaaggacag tgggtggcag 1680

tctgagctct gctatttact ggttttggca agttacttaa tctgtttgct tcctcagctg 1740

tacaatgggt aaaataatag tggtcatcac aacagggtgg ttacagcgat gaaaggagat 1800

tatgtgtgta tggtaccaca taattataaa gctgatattt aaatggaaca gatactgcac 1860

agacacttga ggtctgagaa taagattaag tcaatcagag tattaatggg ttaaataaag 1920

gtgacatcct atacaaatca acggtttgat ctttatgctt ccaatgtgta cttgtagtta 1980

tagaggagac caagcacctt acaaatactc catgttttac tagatgtgag caagtcatta 2040

agcatcaagt ttagtttggc gacaaaattg taacatctac tacaatatat cttcaaaaga 2100

aatcattcac aaccacactc ccatgacaag aagacctcac agactcaaaa taaataggaa 2160

aatctcatac ataaatactg ttccaacact gggaccctca gtcacgcaga aaacaaattg 2220

aggcattgag tggaggcaaa gggcacttct gcaggaactg accctcaaat tagggattct 2280

caacccgttt tcctaagatg agcagtggat gatttgcttg gaggctcctt gttcagaagt 2340

atcctttctc cctgtcacat gcaccgatga gcccctcagg catttgaaag tatcaaggtc 2400

tccctccacg ctccctgttc aactccattt ttcttcattc tcctcctctg ctttcgccag 2460

gttccatttt cagtgcttgg gccttttaag tcccatactg catgcatccc acgggcccat 2520

tcattcctct ggtcatgctc agccctgacg aacccccaaa ccacaggctg agaatccctg 2580

cttgaagatc agaagttcca atgctggatt acgtctcctc caattgtgta tcacgttgct 2640

tctttgagtt tgtaactcga atgccacatt ttttcatatc catcattctc ccttttctta 2700

aatagaagat gaatgtcagt gctacaccaa ggagtaaaaa gatggctccc agaattacca 2760

agtgagtcct ttcatttgga ggaagcgcca gaggtagttc tgggatgacc aattcagctg 2820

tatggttttc ctcaggatct aatctcctaa aaatgcagta gaaaatctca ttagctgttg 2880

tgttgattct cagtgtgctg gtcacattta aaagcttctc ctctctcttg gaattggtgg 2940

tggtggtctt accactcagg acttgatggt cactgcttgt ccaaatgact tcggccttgg 3000

ggtagccctc agcctgacat gttagttcat gttcagaggt gactggatcg acaaccaaaa 3060

ttctttggtt gattttgttg tatggagcat tgactttcac ggtaatccgc ttgtagtcgg 3120

caccaccata gctgatcatg cagcggtaaa cccctgcatc ctgcaatttc acatctgtga 3180

tccgaagtgc agcatttccc agggagagct ggtccttcaa cagctgggcc ctctgtctgt 3240

agttactatg ctgaaccttc aggtcttcct ctccatgcac aaattgaata atgttcttat 3300

cctccatttc ccaatagaca attagtgaag tcaggtctaa ttgtttttct actgggaatt 3360

tgcattcaat tgtcatattg ctgccatact ctaccacata taggtccttg ggaaccgtga 3420

cagtaaatgc attcagcaaa tgccagtaga tcgtgaatat aaagacagca aatatcctca 3480

tctttctgga atgtgctgca ggcagagaga agcgcggctg gtgcggagcc tcgggaagca 3540

gcgcaggact ggggcttcag gactggggct tcgcgaggcg tgccagctgc tcaacttggc 3600

gcccggcccg gaggcggggt cccgcccacc tctgcgcaag gcagcaaatc cagtttgccc 3660

ggcattggac tttcctgacc ttcggcggaa tcggggaagc tttcagtttg ggtagcgagt 3720

ggtgttggtg tcctaggaat aaagctatgt atagaaatga aacagaaagt gaaacctgtc 3780

agtccagttt tcttgtaaat gaggttttca ccggaaagag ttccgaagat taaaacaaat 3840

ccacatttgg tatgttatta atataaacag aaatttacaa caagccaaca tctgaacgca 3900

ccttgattt 3909

<210> 9
<211> 3691
<212> DNA
<213> Homo sapiens

<400> 9
ggcgcaacgc tgagcagctg gcgcgtcccg cgcggcccca gttctgcgca gcttcccgag 60

gctccgcacc agccgcgctt ctgtccgcct gcagggcatt ccagaaagat gaggatattt 120

gctgtcttta tattcatgac ctactggcat ttgctgaacg catttactgt cacggttccc 180

aaggacctat atgtggtaga gtatggtagc aatatgacaa ttgaatgcaa attcccagta 240

gaaaaacaat tagacctggc tgcactaatt gtctattggg aaatggagga taagaacatt 300

attcaatttg tgcatggaga ggaagacctg aaggttcagc atagtagcta cagacagagg 360

gcccggctgt tgaaggacca gctctccctg ggaaatgctg cacttcagat cacagatgtg 420

aaattgcagg atgcaggggt gtaccgctgc atgatcagct atggtggtgc cgactacaag 480

cgaattactg tgaaagtcaa tgccccatac aacaaaatca accaaagaat tttggttgtg 540

gatccagtca cctctgaaca tgaactgaca tgtcaggctg agggctaccc caaggccgaa 600

gtcatctgga caagcagtga ccatcaagtc ctgagtggta agaccaccac caccaattcc 660

aagagagagg agaagctttt caatgtgacc agcacactga gaatcaacac aacaactaat 720

gagattttct actgcacttt taggagatta gatcctgagg aaaaccatac agctgaattg 780

gtcatcccag aactacctct ggcacatcct ccaaatgaaa ggactcactt ggtaattctg 840

ggagccatct tattatgcct tggtgtagca ctgacattca tcttccgttt aagaaaaggg 900

agaatgatgg atgtgaaaaa atgtggcatc caagatacaa actcaaagaa gcaaagtgat 960

acacatttgg aggagacgta atccagcatt ggaacttctg atcttcaagc agggattctc 1020

aacctgtggt ttaggggttc atcggggctg agcgtgacaa gaggaaggaa tgggcccgtg 1080

ggatgcaggc aatgtgggac ttaaaaggcc caagcactga aaatggaacc tggcgaaagc 1140

agaggaggag aatgaagaaa gatggagtca aacagggagc ctggagggag accttgatac 1200

tttcaaatgc ctgaggggct catcgacgcc tgtgacaggg agaaaggata cttctgaaca 1260

aggagcctcc aagcaaatca tccattgctc atcctaggaa gacgggttga gaatccctaa 1320

tttgagggtc agttcctgca gaagtgccct ttgcctccac tcaatgcctc aatttgtttt 1380

ctgcatgact gagagtctca gtgttggaac gggacagtat ttatgtatga gtttttccta 1440

tttattttga gtctgtgagg tcttcttgtc atgtgagtgt ggttgtgaat gatttctttt 1500

gaagatatat tgtagtagat gttacaattt tgtcgccaaa ctaaacttgc tgcttaatga 1560

tttgctcaca tctagtaaaa catggagtat ttgtaaggtg cttggtctcc tctataacta 1620

caagtataca ttggaagcat aaagatcaaa ccgttggttg cataggatgt caccttttatt 1680

taacccatta atactctggt tgacctaatc ttattctcag acctcaagtg tctgtgcagt 1740

atctgttcca tttaaatatc agctttacaa ttatgtggta gcctacacac ataatctcat 1800

ttcatcgctg taaccaccct gttgtgataa ccactattat tttacccatc gtacagctga 1860

ggaagcaaac agattaagta acttgcccaa accagtaaat agcagacctc agactgccac 1920

ccactgtcct tttataatac aatttacagc tatattttac tttaagcaat tcttttattc 1980

aaaaaccatt tattaagtgc ccttgcaata tcaatcgctg tgccaggcat tgaatctaca 2040

gatgtgagca agacaaagta cctgtcctca aggagctcat agtataatga ggagattaac 2100

aagaaaatgt attattacaa tttagtccag tgtcatagca taaggatgat gcgaggggaa 2160

aacccgagca gtgttgccaa gaggaggaaa taggccaatg tggtctggga cggttggata 2220

tacttaaaca tcttaataat cagagtaatt ttcatttaca aagagaggtc ggtacttaaa 2280

ataaccctga aaaataacac tggaattcct tttctagcat tatatttatt cctgatttgc 2340

ctttgccata taatctaatg cttgtttata tagtgtctgg tattgtttaa cagttctgtc 2400

ttttctattt aaatgccact aaattttaaa ttcatacctt tccatgattc aaaattcaaa 2460

agatcccatg ggagatggtt ggaaaatctc cacttcatcc tccaagccat tcaagtttcc 2520

tttccagaag caactgctac tgcctttcat tcatatgttc ttctaaagat agtctacatt 2580

tggaaatgta tgttaaaagc acgtattttt aaaatttttt tcctaaatag taacacattg 2640

tatgtctgct gtgtactttg ctatttttat ttattttagt gtttcttata tagcagatgg 2700

aatgaatttg aagttcccag ggctgaggat ccatgccttc tttgtttcta agttatcttt 2760

cccatagctt ttcattatct ttcatatgat ccagtatatg ttaaatatgt cctacatata 2820

catttagaca accaccattt gttaagtatt tgctctagga cagagtttgg atttgtttat 2880

gtttgctcaa aaggagaccc atgggctctc cagggtgcac tgagtcaatc tagtcctaaa 2940

aagcaatctt attattaact ctgtatgaca gaatcatgtc tggaactttt gttttctgct 3000

ttctgtcaag tataaacttc actttgatgc tgtacttgca aaatcacatt ttctttctgg 3060

aaattccggc agtgtacctt gactgctagc taccctgtgc cagaaaagcc tcattcgttg 3120

tgcttgaacc cttgaatgcc accagctgtc atcactacac agccctccta agaggcttcc 3180

tggaggtttc gagattcaga tgccctggga gatcccagag tttcctttcc ctcttggcca 3240

tattctggtg tcaatgacaa ggagtacctt ggctttgcca catgtcaagg ctgaagaaac 3300

agtgtctcca acagagctcc ttgtgttatc tgtttgtaca tgtgcatttg tacagtaatt 3360

ggtgtgacag tgttctttgt gtgaattaca ggcaagaatt gtggctgagc aaggcacata 3420

gtctactcag tctattccta agtcctaact cctccttgtg gtgttggatt tgtaaggcac 3480

tttatccctt ttgtctcatg tttcatcgta aatggcatag gcagagatga tacctaattc 3540

tgcatttgat tgtcactttt tgtacctgca ttaatttaat aaaatattct tatttatttt 3600

gttacttggt acaccagcat gtccattttc ttgtttattt tgtgtttaat aaaatgttca 3660

gtttaacatc ccagtggaga aagttaaaaa a 3691

<210> 10
<211> 3691
<212> DNA
<213> Homo sapiens

<400> 10

```
tttttaact ttctccactg ggatgttaaa ctgaacattt tattaaacac aaaataaaca       60
agaaaatgga catgctggtg taccaagtaa caaaataaat aagaatattt tattaaatta      120
atgcaggtac aaaaagtgac aatcaaatgc agaattaggt atcatctctg cctatgccat      180
ttacgatgaa acatgagaca aaagggataa agtgccttac aaatccaaca ccacaaggag      240
gagttaggac ttaggaatag actgagtaga ctatgtgcct tgctcagcca caattcttgc      300
ctgtaattca cacaaagaac actgtcacac caattactgt acaaatgcac atgtacaaac      360
agataacaca aggagctctg ttggagacac tgtttcttca gccttgacat gtggcaaagc      420
caaggtactc cttgtcattg acaccagaat atggccaaga gggaaaggaa actctgggat      480
ctcccagggc atctgaatct cgaaacctcc aggaagcctc ttaggagggc tgtgtagtga      540
tgacagctgg tggcattcaa gggttcaagc acaacgaatg aggcttttct ggcacagggt      600
agctagcagt caaggtacac tgccggaatt tccagaaaga aaatgtgatt ttgcaagtac      660
agcatcaaag tgaagtttat acttgacaga aagcagaaaa caaaagttcc agacatgatt      720
ctgtcataca gagttaataa taagattgct ttttaggact agattgactc agtgcaccct      780
ggagagccca tgggtctcct tttgagcaaa cataaacaaa tccaaactct gtcctagagc      840
aaatacttaa caaatggtgg ttgtctaaat gtatatgtag gacatattta acatatactg      900
gatcatatga aagataatga aaagctatgg gaaagataac ttagaaacaa agaaggcatg      960
gatcctcagc cctgggaact tcaaattcat tccatctgct atataagaaa cactaaaata     1020
aataaaaata gcaaagtaca cagcagacat acaatgtgtt actatttagg aaaaaaattt     1080
taaaaatacg tgcttttaac atacatttcc aaatgtagac tatctttaga agaacatatg     1140
aatgaaaggc agtagcagtt gcttctggaa aggaaacttg aatggcttgg aggatgaagt     1200
ggagattttc caaccatctc ccatgggatc ttttgaattt tgaatcatgg aaaggtatga     1260
atttaaaatt tagtggcatt taaatagaaa agacagaact gttaaacaat accagacact     1320
atataaacaa gcattagatt atatggcaaa ggcaaatcag gaataaatat aatgctagaa     1380
aaggaattcc agtgttattt ttcagggtta ttttaagtac cgacctctct ttgtaaatga     1440
aaattactct gattattaag atgtttaagt atatccaacc gtcccagacc acattggcct     1500
atttcctcct cttggcaaca ctgctcgggt tttcccctcg catcatcctt atgctatgac     1560
actggactaa attgtaataa tacattttct tgttaatctc ctcattatac tatgagctcc     1620
```

ttgaggacag gtactttgtc ttgctcacat ctgtagattc aatgcctggc acagcgattg 1680

atattgcaag ggcacttaat aaatggtttt tgaataaaag aattgcttaa agtaaaatat 1740

agctgtaaat tgtattataa aaggacagtg ggtggcagtc tgaggtctgc tatttactgg 1800

tttgggcaag ttacttaatc tgtttgcttc ctcagctgta cgatgggtaa aataatagtg 1860

gttatcacaa cagggtggtt acagcgatga aatgagatta tgtgtgtagg ctaccacata 1920

attgtaaagc tgatatttaa atggaacaga tactgcacag acacttgagg tctgagaata 1980

agattaggtc aaccagagta ttaatgggtt aaataaaggt gacatcctat gcaaccaacg 2040

gtttgatctt tatgcttcca atgtatactt gtagttatag aggagaccaa gcaccttaca 2100

aatactccat gttttactag atgtgagcaa atcattaagc agcaagttta gtttggcgac 2160

aaaattgtaa catctactac aatatatctt caaaagaaat cattcacaac cacactcaca 2220

tgacaagaag acctcacaga ctcaaaataa ataggaaaaa ctcatacata aatactgtcc 2280

cgttccaaca ctgagactct cagtcatgca gaaaacaaat tgaggcattg agtggaggca 2340

aagggcactt ctgcaggaac tgaccctcaa attagggatt ctcaacccgt cttcctagga 2400

tgagcaatgg atgatttgct tggaggctcc ttgttcagaa gtatcctttc tccctgtcac 2460

aggcgtcgat gagcccctca ggcatttgaa agtatcaagg tctccctcca ggctccctgt 2520

ttgactccat ctttcttcat tctcctcctc tgctttcgcc aggttccatt ttcagtgctt 2580

gggcctttta agtcccacat tgcctgcatc ccacgggccc attccttcct cttgtcacgc 2640

tcagccccga tgaaccccta aaccacaggt tgagaatccc tgcttgaaga tcagaagttc 2700

caatgctgga ttacgtctcc tccaaatgtg tatcactttg cttctttgag tttgtatctt 2760

ggatgccaca ttttttcaca tccatcattc tccctttttct taaacggaag atgaatgtca 2820

gtgctacacc aaggcataat aagatggctc ccagaattac caagtgagtc ctttcatttg 2880

gaggatgtgc cagaggtagt tctgggatga ccaattcagc tgtatggttt tcctcaggat 2940

ctaatctcct aaaagtgcag tagaaaatct cattagttgt tgtgttgatt ctcagtgtgc 3000

tggtcacatt gaaaagcttc tcctctctct tggaattggt ggtggtggtc ttaccactca 3060

ggacttgatg gtcactgctt gtccagatga cttcggcctt ggggtagccc tcagcctgac 3120

atgtcagttc atgttcagag gtgactggat ccacaaccaa aattctttgg ttgattttgt 3180

tgtatggggc attgactttc acagtaattc gcttgtagtc ggcaccacca tagctgatca 3240

tgcagcggta caccctgca tcctgcaatt tcacatctgt gatctgaagt gcagcatttc 3300

ccagggagag ctggtccttc aacagccggg ccctctgtct gtagctacta tgctgaacct 3360

tcaggtcttc ctctccatgc acaaattgaa taatgttctt atcctccatt tcccaataga 3420

caattagtgc agccaggtct aattgttttt ctactgggaa tttgcattca attgtcatat 3480

tgctaccata ctctaccaca tataggtcct tgggaaccgt gacagtaaat gcgttcagca 3540

aatgccagta ggtcatgaat ataaagacag caaatatcct catctttctg gaatgccctg 3600

caggcggaca gaagcgcggc tggtgcggag cctcgggaag ctgcgcagaa ctggggccgc 3660

gcgggacgcg ccagctgctc agcgttgcgc c 3691

<210> 11
<211> 753
<212> DNA
<213> Homo sapiens

<400> 11
ctcgagggcg caacgctgag cagctggcgc gtcccgcgcg gccccagttc tgcgcagctt 60

cccgaggctc cgcaccagcc gcgcttctgt ccgcctgcag ggcattccag aaagatgagg 120

atatttgctg tctttatatt catgacctac tggcatttgc tgaacgcccc atacaacaaa 180

atcaaccaaa gaattttggt tgtggatcca gtcacctctg aacatgaact gacatgtcag 240

gctgagggct accccaaggc cgaagtcatc tggacaagca gtgaccatca agtcctgagt 300

ggtaagacca ccaccaccaa ttccaagaga gaggagaagc ttttcaatgt gaccagcaca 360

ctgagaatca acacaacaac taatgagatt ttctactgca cttttaggag attagatcct 420

gaggaaaacc atacagctga attggtcatc ccagaactac ctctggcaca tcctccaaat 480

gaaaggactc acttggtaat tctgggagcc atcttattat gccttggtgt agcactgaca 540

ttcatcttcc gtttaagaaa agggagaatg atggatgtga aaaaatgtgg catccaagat 600

acaaactcaa agaagcaaag tgatacacat ttggaggaga cgtaatccag cattggaact 660

tctgatcttc aagcagggat tctcaacctg tggtttaggg gttcatcggg gctgagcgtg 720

acaagaggaa ggaatgggcc cgtgggcggc cgc 753

<210> 12
<211> 1418
<212> DNA
<213> Homo sapiens

<400> 12
ctcgagtcca gcattggaac ttctgatctt caagcaggga ttctcaacct gtggtttagg 60

ggttcatcgg ggctgagcgt gacaagagga aggaatgggc ccgtgggatg caggcaatgt 120

gggacttaaa aggcccaagc actgaaaatg gaacctggcg aaagcagagg aggagaatga 180

agaaagatgg agtcaaacag ggagcctgga gggagacctt gatactttca aatgcctgag 240

gggctcatcg acgcctgtga cagggagaaa ggatacttct gaacaaggag cctccaagca 300

aatcatccat tgctcatcct aggaagacgg gttgagaatc cctaatttga gggtcagttc 360

ctgcagaagt gcccttgcc tccactcaat gcctcaattt gttttctgca tgactgagag 420

tctcagtgtt ggaacgggac agtatttatg tatgagtttt tcctatttat tttgagtctg 480

tgaggtcttc ttgtcatgtg agtgtggttg tgaatgattt cttttgaaga tatattgtag 540

tagatgttac aattttgtcg ccaaactaaa cttgctgctt aatgatttgc tcacatctag 600

taaaacatgg agtatttgta aggtgcttgg tctcctctat aactacaagt atacattgga 660

agcataaaga tcaaaccgtt ggttgcatag gatgtcacct ttatttaacc cattaatact 720

ctggttgacc taatcttatt ctcagacctc aagtgtctgt gcagtatctg ttccatttaa 780

atatcagctt tacaattatg tggtagccta cacacataat ctcatttcat cgctgtaacc 840

accctgttgt gataaccact attattttac ccatcgtaca gctgaggaag caaacagatt 900

aagtaacttg cccaaaccag taaatagcag acctcagact gccacccact gtccttttat 960

aatacaattt acagctatat tttactttaa gcaattcttt tattcaaaaa ccatttatta 1020

agtgcccttg caatatcaat cgctgtgcca ggcattgaat ctacagatgt ggcaagacaa 1080

agtacctgtc ctcaaggagc tcatagtata atgaggagat taacaagaaa atgtattatt 1140

acaatttagt ccagtgtcat agcataagga tgatgcgagg ggaaaacccg agcagtgttg 1200

ccaagaggag gaaataggcc aatgtggtct gggacggttg gatatactta aacatcttaa 1260

taatcagagt aattttcatt tacaaagaga ggtcggtact taaaataacc ctgaaaaata 1320

acactggaat tccttttcta gcattatatt tattcctgat ttgcctttgc catataatct 1380

aatgcttgtt tatatagtgt ctggtattgt gcggccgc 1418

<210> 13
<211> 1419
<212> DNA

<213> Homo sapiens

<400> 13
ctcgagctga aaaataacac tggaattcct tttctagcat tatatttatt cctgatttgc 60

ctttgccata taatctaatg cttgtttata tagtgtctgg tattgtttaa cagttctgtc 120

ttttctattt aaatgccact aaattttaaa ttcatacctt tccatgattc aaaattcaaa 180

agatcccatg ggagatggtt ggaaaatctc cacttcatcc tccaagccat tcaagtttcc 240

tttccagaag caactgctac tgcctttcat tcatatgttc ttctaaagat agtctacatt 300

tggaaatgta tgttaaaagc acgtattttt aaaatttttt tcctaaatag taacacattg 360

tatgtctgct gtgtactttg ctatttttat ttattttagt gtttcttata tagcagatgg 420

aatgaatttg aagttcccag ggctgaggat ccatgccttc tttgtttcta agttatcttt 480

cccatagctt ttcattatct ttcatatgat ccagtatatg ttaaatatgt cctacatata 540

catttagaca accaccattt gttaagtatt tgctctagga cagagtttgg atttgtttat 600

gtttgctcaa aaggagaccc atgggctctc cagggtgcac tgagtcaatc tagtcctaaa 660

aagcaatctt attattaact ctgtatgaca gaatcatgtc tggaactttt gttttctgct 720

ttctgtcaag tataaacttc actttgatgc tgtacttgca aaatcacatt ttctttctgg 780

aaattccggc agtgtacctt gactgctagc taccctgtgc cagaaaagcc tcattcgttg 840

tgcttgaacc cttgaatgcc accagctgtc atcactacac agccctccta agaggcttcc 900

tggaggtttc gagattcaga tgccctggga gatcccagag tttcctttcc ctcttggcca 960

tattctggtg tcaatgacaa ggagtacctt ggctttgcca catgtcaagg ctgaagaaac 1020

agtgtctcca acagagctcc ttgtgttatc tgtttgtaca tgtgcatttg tacagtaatt 1080

ggtgtgacag tgttctttgt gtgaattaca ggcaagaatt gtggctgagc aaggcacata 1140

gtctactcag tctattccta agtcctaact cctccttgtg gtgttggatt tgtaaggcac 1200

tttatccctt ttgtctcatg tttcatcgta aatggcatag gcagagatga tacctaattc 1260

tgcatttgat tgtcactttt tgtacctgca ttaatttaat aaaatattct tatttatttt 1320

gttacttggt acaccagcat gtccattttc ttgtttattt tgtgtttaat aaaatgttca 1380

gtttaacatc ccagtggaga aagttaaaaa agcggccgc 1419

<210> 14
<211> 16

<212> PRT
<213> Unknown

<220>
<221> source
<223> /note="Description of Unknown:
RFGF peptide"

<400> 14
Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
1 5 10 15

<210> 15
<211> 11
<212> PRT
<213> Unknown

<220>
<221> source
<223> /note="Description of Unknown:
RFGF analogue peptide"

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

<210> 16
<211> 13
<212> PRT
<213> Human immunodeficiency virus

<400> 16
Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln
1 5 10

<210> 17
<211> 16
<212> PRT
<213> Drosophila sp.

<400> 17
Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
1 5 10 15

<210> 18
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 18
gaagcuuuuc aaugugacca a 21

<210> 19
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 19
uuggucacau ugaaaagcuu cuc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 20
gaagcuuuuc aaugugacca a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 21
uuggucacau ugaaaagcuu cuc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 22
gaagcuuuuc aaugugacca a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 23
uuggucacau ugaaaagcuu cuc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 24
agcuuuucaa ugugaccagc a 21

<210> 25
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 25
ugcuggucac auugaaaagc uuc 23

<210> 26
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 26
agcuuuucaa ugugaccagc a 21

<210> 27
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 27
ugcuggucac auugaaaagc uuc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 28
agcuuuucaa ugugaccagc a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 29
ugcuggucac auugaaaagc uuc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 30
gcuuuucaau gugaccagca a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 31
uugcugguca cauugaaaag cuu 23

<210> 32
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 32
gcuuuucaau gugaccagca a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 33
uugcugguca cauugaaaag cuu 23

<210> 34
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 34
gcuuuucaau gugaccagca a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 35
uugcugguca cauugaaaag cuu 23

<210> 36
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 36
cacacugaga aucaacacaa a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 37
uuuguguuga uucucagugu gcu 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 38
ccaaaugaaa ggacucacuu a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 39
uaagugaguc cuuucauuug gag 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 40
uacacauuug gaggagacgu a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

oligonucleotide"

<400> 41
uacgucuccu ccaaaugugu auc 23

<210> 42
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 42
uacacauuug gaggagacgu a 21

<210> 43
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 43
uacgucuccu ccaaaugugu auc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 44
uacacauuug gaggagacgu a 21

<210> 45
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 45
uacgucuccu ccaaaugugu auc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 46
acacauuugg aggagacgua a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 47
uuacgucucc uccaaaugug uau 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 48
acacauuugg aggagacgua a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 49
uuacgucucc uccaaaugug uau 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 50
acacauuugg aggagacgua a 21

<210> 51
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 51
uuacgucucc uccaaaugug uau 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 52
cacauuugga ggagacguaa u 21

<210> 53
<211> 23

<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 53
auuacgucuc cuccaaaugu gua 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 54
cacauuugga ggagacguaa u 21

<210> 55
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 55
auuacgucuc cuccaaaugu gua 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 56
cacauuugga ggagacguaa u 21

<210> 57
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 57
auuacgucuc cuccaaaugu gua 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 58
gagaccuuga uacuuucaaa u 21

<210> 59
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 59
auuugaaagu aucaaggucu ccc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 60
uaauuugagg gucaguuccu a 21

<210> 61
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 61
uaggaacuga cccucaaauu agg 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 62
uuccuauuua uuuugagucu a 21

<210> 63
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 63
uagacucaaa auaaauagga aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 64
uuccuauuua uuuugagucu a 21

<210> 65
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 65
uagacucaaa auaaauagga aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 66
uuccuauuua uuuugagucu a 21

<210> 67
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 67
uagacucaaa auaaauagga aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

oligonucleotide"

<400> 68
uccuauuuau uuugagucug u 21

<210> 69
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 69
acagacucaa aauaaauagg aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 70
uccuauuuau uuugagucug u 21

<210> 71
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 71
acagacucaa aauaaauagg aaa 23

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

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 72
uugaagauau auuguaguag a 21

<210> 73
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 73
ucuacuacaa uauaucuuca aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 74
auuguaguag auguuacaau u 21

<210> 75
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 75
aauuguaaca ucuacuacaa uau 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 76
guauuuguaa ggugcuuggu a 21

<210> 77
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 77
uaccaagcac cuuacaaaua cuc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 78
aagcauaaag aucaaaccgu u 21

<210> 79
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 79
aacgguuuga ucuuuaugcu ucc 23

<210> 80
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 80
ccuuuauuua acccauuaau a 21

<210> 81
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 81
uauuaauggg uuaaauaaag gug 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 82
aggaagcaaa cagauuaagu a 21

<210> 83
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 83
uacuuaaucu guuugcuucc uca 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 84
caggcauuga aucuacagau a 21

<210> 85
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 85
uaucuguaga uucaaugccu ggc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 86
ugauucaaaa uucaaaagau a 21

<210> 87
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 87
uaucuuuuga auuuugaauc aug 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 88
ucuaaagaua gucuacauuu a 21

<210> 89
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 89
uaaauguaga cuaucuuuag aag 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 90
ggaaauguau guuaaaagca a 21

<210> 91
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 91
uugcuuuuaa cauacauuuc caa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 92
uguuuucugc uuucugucaa a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 93
uuugacagaa agcagaaaac aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 94
uuucugucaa guauaaacuu a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

oligonucleotide"

<400> 95
uaaguuuaua cuugacagaa agc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 96
uucugucaag uauaaacuuc a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 97
ugaaguuuau acuugacaga aag 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 98
guacuugcaa aaucacauuu u 21

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

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 99
aaaaugugau uuugcaagua cag 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 100
uucuuugugu gaauuacagg a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 101
uccuguaauu cacacaaaga aca 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 102
ugugguguug gauuuguaag a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 103
ucuuacaaau ccaacaccac aag 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 104
ucccuuuugu cucauguuuc a 21

<210> 105
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 105
ugaaacauga gacaaaaggg aua 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 106
cugcauuuga uugucacuuu u 21

<210> 107
<211> 23

<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 107
aaaagugaca aucaaaugca gaa 23

<210> 108
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 108
uaccugcauu aauuuaauaa a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 109
uuuauuaaau uaaugcaggu aca 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 110
uaccugcauu aauuuaauaa a 21

<210> 111
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 111
uuuauuaaau uaaugcaggu aca 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 112
uaccugcauu aauuuaauaa a 21

<210> 113
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 113
uuuauuaaau uaaugcaggu aca 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 114
accugcauua auuuaauaaa a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 115
uuuuauuaaa uuaaugcagg uac 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 116
accugcauua auuuaauaaa a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 117
uuuuauuaaa uuaaugcagg uac 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 118
accugcauua auuuaauaaa a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 119
uuuuauuaaa uuaaugcagg uac 23

<210> 120
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<220>
<221> modified_base
<222> (1)..(1)
<223> Inverted abasic nucleotide

<400> 120
ngaagcuuuu caaugugacc aa 22

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 121
uuggucacau ugaaaagcuu cuc 23

<210> 122
<211> 21

<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 122
gaagcuuuuc aaugugacca a 21

<210> 123
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 123
uuggucacau ugaaaagcuu cuc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 124
gaagcuuuuc aaugugacca a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 125
uuggucacau ugaaaagcuu cuc 23

<210> 126
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<220>
<221> modified_base
<222> (1)..(1)
<223> Inverted abasic nucleotide

<400> 126
nagcuuuuca augugaccag ca 22

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 127
ugcuggucac auugaaaagc uuc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 128
agcuuuucaa ugugaccagc a 21

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

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 129
ugcuggucac auugaaaagc uuc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 130
agcuuuucaa ugugaccagc a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 131
ugcuggucac auugaaaagc uuc 23

<210> 132
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<220>
<221> modified_base
<222> (1)..(1)
<223> Inverted abasic nucleotide

<400> 132
ngcuuuucaa ugugaccagc aa 22

<210> 133
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 133
uugcugguca cauugaaaag cuu 23

<210> 134
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 134
gcuuuucaau gugaccagca a 21

<210> 135
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 135
uugcugguca cauugaaaag cuu 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 136
gcuuuucaau gugaccagca a 21

<210> 137
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 137
uugcugguca cauugaaaag cuu 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 138
cacacugaga aucaacacaa a 21

<210> 139
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 139
uuuguguuga uucucagugu gca 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

oligonucleotide"

<400> 140
ccaaaugaaa ggacucacuu a 21

<210> 141
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 141
uaagugaguc cuuucauuug gag 23

<210> 142
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<220>
<221> modified_base
<222> (1)..(1)
<223> Inverted abasic nucleotide

<400> 142
nuacacauuu ggaggagacg ua 22

<210> 143
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 143
uacgucuccu ccaaaugugu auc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 144
uacacauuug gaggagacgu a 21

<210> 145
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 145
uacgucuccu ccaaaugugu auc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 146
uacacauuug gaggagacgu a 21

<210> 147
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 147
uacgucuccu ccaaaugugu auc 23

<210> 148
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<220>
<221> modified_base
<222> (1)..(1)
<223> Inverted abasic nucleotide

<400> 148
nacacauuug gaggagacgu aa 22

<210> 149
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 149
uuacgucucc uccaaaugug uau 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 150
acacauuugg aggagacgua a 21

<210> 151
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 151
uuacgucucc uccaaaugug uau 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 152
acacauuugg aggagacgua a 21

<210> 153
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 153
uuacgucucc uccaaaugug uau 23

<210> 154
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<220>
<221> modified_base
<222> (1)..(1)
<223> Inverted abasic nucleotide

<400> 154
ncacauuugg aggagacgua au 22

<210> 155
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 155
auuacgucuc cuccaaaugu gua 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 156
cacauuugga ggagacguaa u 21

<210> 157
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 157
auuacgucuc cuccaaaugu gua 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

oligonucleotide"

<400> 158
cacauuugga ggagacguaa u 21

<210> 159
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 159
auuacgucuc cuccaaaugu gua 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 160
gagaccuuga uacuuucaaa u 21

<210> 161
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 161
auuugaaagu aucaaggucu ccc 23

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

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 162
uaauuugagg gucaguuccu a 21

<210> 163
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 163
uaggaacuga cccucaaauu agg 23

<210> 164
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<220>
<221> modified_base
<222> (1)..(1)
<223> Inverted abasic nucleotide

<400> 164
nuuccuauuu auuuugaguc ua 22

<210> 165
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 165
uagacucaaa auaaauagga aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 166
uuccuauuua uuuugagucu a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 167
uagacucaaa auaaauagga aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 168
uuccuauuua uuuugagucu a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 169
uagacucaaa auaaauagga aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 170
uccuauuuau uuugagucug u 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 171
acagacucaa aauaaauagg aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 172
uccuauuuau uuugagucug u 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

oligonucleotide"

<400> 173
acagacucaa aauaaauagg aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 174
uugaagauau auuguaguag a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 175
ucuacuacaa uauaucuuca aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 176
auuguaguag auguuacaau u 21

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

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 177
aauuguaaca ucuacuacaa uau 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 178
guauuuguaa ggugcuuggu a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 179
uaccaagcac cuuacaaaua cuc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 180
aagcauaaag aucaaaccgu a 21

<210> 181
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 181
aacgguuuga ucuuuaugcu uca 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 182
ccuuuauuua acccauuaau a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 183
uauuaauggg uuaaauaaag gug 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 184
aggaagcaaa cagauuaagu a 21

<210> 185
<211> 23

<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 185
uacuuaaucu guuugcuucc uca 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 186
caggcauuga aucuacagau a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 187
uaucuguaga uucaaugccu ggc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 188
ugauucaaaa uucaaaagau a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 189
uaucuuuuga auuuugaauc aug 23

<210> 190
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 190
ucuaaagaua gucuacauuu a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 191
uaaauguaga cuaucuuuag aag 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 192
ggaaauguau guuaaaagca a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 193
uugcuuuuaa cauacauuuc caa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 194
uguuuucugc uuucugucaa a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 195
uuugacagaa agcagaaaac aaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 196
uuucugucaa guauaaacuu a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 197
uaaguuuaua cuugacagaa agc 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 198
uucugucaag uauaaacuuc a 21

<210> 199
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 199
ugaaguuuau acuugacaga aag 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

oligonucleotide"

<400> 200
guacuugcaa aaucacauuu u 21

<210> 201
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 201
aaaaugugau uuugcaagua cag 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 202
uucuuugugu gaauuacagg a 21

<210> 203
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 203
uccuguaauu cacacaaaga aca 23

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

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 204
ugugguguug gauuuguaag a 21

<210> 205
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 205
ucuuacaaau ccaacaccac aag 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 206
ucccuuuugu cucauguuuc a 21

<210> 207
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 207
ugaaacauga gacaaaaggg aua 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 208
cugcauuuga uugucacuuu u 21

<210> 209
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 209
aaaagugaca aucaaaugca gaa 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<220>
<221> modified_base
<222> (1)..(1)
<223> Inverted abasic nucleotide

<400> 210
nuaccugcau uaauuuaaua aa 22

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 211
uuuauuaaau uaaugcaggu aca 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 212
uaccugcauu aauuuaauaa a 21

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 213
uuuauuaaau uaaugcaggu aca 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 214
uaccugcauu aauuuaauaa a 21

<210> 215
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

oligonucleotide"

<400> 215
uuuauuaaau uaaugcaggu aca 23

<210> 216
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<220>
<221> modified_base
<222> (1)..(1)
<223> Inverted abasic nucleotide

<400> 216
naccugcauu aauuuaauaa aa 22

<210> 217
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 217
uuuuauuaaa uuaaugcagg uac 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 218
accugcauua auuuaauaaa a 21

<210> 219
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 219
uuuuauuaaa uuaaugcagg uac 23

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 220
accugcauua auuuaauaaa a 21

<210> 221
<211> 23
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 221
uuuuauuaaa uuaaugcagg uac 23