

SEQUENCE LISTING

<110> NATURE TECHNOLOGY CORPORATION

<120> MUSCLE-SPECIFIC HYBRID PROMOTER

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<150> 63/077,339

<151> 2020-09-11

<160> 59

<170> PatentIn version 3.5

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<211> 143

<212> DNA

<213> Mus sp.

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<211> 304

<212> DNA

<213> Mus sp.

<400> 3

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agacaggggc gcaggagtca ggcaaaggcg atgcgggggt gcgactacac gcagttggaa 240
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<210> 4

<211> 674

<212> DNA

<213> Mus sp.

<400> 4

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tccacgccgc cacc 674

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<211> 670

<212> DNA

<213> Mus sp.

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cgccgccacc 670

<210> 6

<211> 281

<212> DNA

<213> Homo sapiens

<400> 6

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ctgtgcgggg gtgggagcgc acatagcaat tggaaactga a 281

<210> 7
 <211> 791
 <212> DNA
 <213> Homo sapiens

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 ctgatgtcag gagggataca aatagtgccg acggctgggg gccctgtctc ccctcgccgc 720
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 gcgccgtcac c 791

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 <211> 786
 <212> DNA
 <213> Homo sapiens

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 agctcgccca tagacataca tggcaggcag gctttggcca ggatccctcc gcctgccagg 180
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aggggaccct caaactaaag ggaagcctct cttctgctgt ctcccctgac cccactcccc	420
cccaccccag gacgaggaga taaccagggc tgaaagaggc ccgcctgggg gctgcagaca	480
tgcttgctgc ctgccctggc gaaggattgg caggcttgcc cgtcacagga ccccgctgg	540
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gccgcccttt cctggcagga cagcgggatc ttgcagctgt caggggaggg gaggcggggg	660
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gtcacc	786

<210> 9
 <211> 319
 <212> DNA
 <213> Homo sapiens

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ggccacgggc cgccctttcc tggcaggaca gcgggatctt gcagctgtca ggggagggga	180
ggcgggggct gatgtcagga gggatacaaa tagtgccgac ggctgggggc cctgtctccc	240
ctcgccgcat ccactctccg gccggccgcc tgcccgccgc ctctccgtg cgcccgccag	300
cctcgccccg gccgtcacc	319

<210> 10
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 10	
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cccgtggct gactcagggg cgcaggcctc ttgcggggga gctggcctcc ccgccccac	120

ggccacgggc cgccctttcc tggcaggaca gcgggatctt gcagctgtca ggggagggga	180
ggcgggggct gatgtcagga gggatataaa aggtgagctc gtttagtgaa ccgtcagtcc	240
gcctggagac ctcgagccga gcggctgtcc gccgcctcct ccgtgcgccc gccagcctcg	300
cccgcgccgt cacc	314

<210> 11
 <211> 206
 <212> DNA
 <213> Mus sp.

<400> 11 agccactacg ggtctaggct gcccatgtaa ggaggcaagg cctggggaca cccgagatgc	60
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cctcaccccc accccggtgc ctgggtctta ggctctgtac accatggagg agaagctcgc	180
tctaaaaata accctgtccc tgggtg	206

<210> 12
 <211> 255
 <212> DNA
 <213> Homo sapiens

<400> 12 cccagcccc ttccccggga ggtgggagcg gccaccagg gccccgtggc tgcccttgta	60
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aacccccctc caacacctgc cccgaacct cccataccc agcgcctcgg gtctcggcct	180
ttgcggcaga ggagacagca aagcgccctc taaaaataac tcctttcccg gcgaccgaga	240
ccctccctgt ccccc	255

<210> 13
 <211> 192
 <212> DNA
 <213> Mus sp.

<400> 13 acccttcaga ttaaaaataa ctgaggtaag ggcttgggta ggggaggtgg tgtgagacgc	60
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aaaaaaaggc catggagcca gaggggagag ggcaacagac ctttcatggg caaaccttgg	180
ggccctgctg tc	192

<210> 14
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 14	
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ctctcctccc attccccctt ttggagtcct cctcctctcc cagaaccag taataagtgg	180
gctcctccct ggccctggacc cccgtggtaa ccctataagg cgaggcagct gctgtctgag	240
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ctcttcttag agacaacagg tggctggggc ctcagtcccc agaaaagaaa atgtcttaga	360
ggtatcggca tgggcctgga ggagggggga cagggcaggg ggaggcatct tcctcaggac	420
atcgggtcct agagg	435

<210> 15
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 15	
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ctcgccccac cccatcccct ccggcgggca actgggtcgg gtcaggagg gcaaaccgc	120
tagggagaca ctccatatac ggcccggccc gcgttacctg ggaccgggcc aaccgctcc	180
ttctttggtc aacgcagggg acccgggcgg gggcccaggc cgcgaaccgg ccgagggagg	240
gggctctagt gcccacacc caaatatggc tcgagaaggg cagcgacatt cctgcggggt	300
ggcgaggagg gaatgcccgc gggctatata aaacctgagc agagggacaa gcggccaccg	360
cagcggacag cgccaagtga agcctcgctt cccctccgcg gcgaccaggg cccgagccga	420

gagtagcagt thtagctacc cgcccaggta gg

452

<210> 16

<211> 408

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown:
ATP2A1 sequence

<400> 16

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ctcagatttg ctccttgaca ttgcttgct gcctggcggt ggcaacagct ggggcggggc	120
gcgcgcagga ggccccgtaa ccctatcccc gctccggctc cctcgtgaaa ccggagcttc	180
cctgccttgg ccgagggggga gggctgcggg ggccagaccg cctgcgaaga ccacagggtt	240
tttctctcg ggttttggct cccgtgggat ggatgtggct gtgcgggggg ttggcctgag	300
cttcgcttct aagccagcag cttggtcagg gaaacctgaa agcattccca gctaattccc	360
caagtgggtgc aagtctgtgc gcgcccattc cgctgagtaa ggcggtgg	408

<210> 17

<211> 82

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown:
murine minute virus sequence

<400> 17

gtaagggttt aagggatggg tggttgggtg ggtattaatg tttaattacc tggagcacct	60
gcctgaaatc actttttttc ag	82

<210> 18

<211> 133

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

polynucleotide

<400> 18
gtaagtatca aggttacaag acagggttaa ggaggccaat agaaactggg cttgtcgaga 60
cagagaagat tcttgcgttt ctgataggca cctattggtc ttactgacat ccactttgcc 120
tttctctcca cag 133

<210> 19
<211> 281
<212> DNA
<213> Escherichia coli

<400> 19
ggcttggtgt ccacaaccgt taaaccttaa aagctttaaa agccttatat attctttttt 60
ttcttataaaa acttaaaacc ttagaggcta ttttaagttgc tgattttatat taattttatt 120
gttcaaacat gagagcttag tacgtgaaac atgagagctt agtacgtag ccatgagagc 180
ttagtacgtt agccatgagg gtttagttcg ttaaacaatga gagcttagta cgtaaacaat 240
gagagcttag tacgtactat caacagggtg aactgctgat c 281

<210> 20
<211> 281
<212> DNA
<213> Escherichia coli

<400> 20
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gttcaaacat gagagcttag tacgtgaaac atgagagctt agtacattag ccatgagagc 180
ttagtacatt agccatgagg gtttagttca ttaaacaatga gagcttagta cattaaacat 240
gagagcttag tacatactat caacagggtg aactgctgat c 281

<210> 21
<211> 260
<212> DNA
<213> Escherichia coli

<400> 21

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acatgaaaca tgagagctta gtacattagc catgagagct tagtacatta gccatgaggg	180
tttagttcat taaacatgag agcttagtac attaaaccatg agagcttagt acatactatc	240
aacaggttga actgctgatc	260

<210> 22
 <211> 303
 <212> DNA
 <213> Escherichia coli

<400> 22	
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gttcaaaccat gagagcttag tacgtgaaac atgagagctt agtacgtag ccatgagagc	180
ttagtacgtt agccatgagg gtttagttcg ttaaaccatga gagcttagta cgtaaacat	240
gagagcttag tacgttaaac atgagagctt agtacgtact atcaacaggt tgaactgctg	300
atc	303

<210> 23
 <211> 303
 <212> DNA
 <213> Escherichia coli

<400> 23	
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ttcttataaa acttaaaacc ttagaggcta ttttaagttgc tgatttatat taattttatt	120
gttcaaaccat gagagcttag tacgtgaaac atgagagctt agtacattag ccatgagagc	180
ttagtacatt agccatgagg gtttagttca ttaaaccatga gagcttagta cattaaaccat	240
gagagcttag tacattaaac atgagagctt agtacatact atcaacaggt tgaactgctg	300
atc	303

<210> 24

<211> 139
 <212> DNA
 <213> Escherichia coli

<400> 24
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 ttgatttttg gcgaaaccat ttgatcatat gacaagatgt gtatctacct taacttaatg 120
 attttgataa aaatcatta 139

<210> 25
 <211> 69
 <212> DNA
 <213> Escherichia coli

<400> 25
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 tgtgtatct 69

<210> 26
 <211> 139
 <212> DNA
 <213> Escherichia coli

<400> 26
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 attttgataa aaatcatta 139

<210> 27
 <211> 431
 <212> DNA
 <213> Escherichia coli

<400> 27
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 gttcaaacat gagagcttag tacgtgaaac atgagagctt agtacgtag ccatgagagc 180
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taaagagagt cgtgtaaaat atcgagttcg cacatcttgt tgtctgatta ttgatttttg	360
gcgaaaccat ttgatcatat gacaagatgt gtatctacct taacttaatg attttgataa	420
aaatcattag g	431

<210> 28
 <211> 428
 <212> DNA
 <213> Escherichia coli

<400> 28	
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gttcaaacat gagagcttag tacgtgaaac atgagagctt agtacattag ccatgagagc	180
ttagtacatt agccatgagg gtttagttca ttaaacaatga gagcttagta cattaacat	240
gagagcttag tacatactat caacagggtg aactgctgat ctgtacagta gaattggtaa	300
agagagttgt gtaaaaatatt gagttcgcac atcttggtgt ctgattattg atttttggcg	360
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tcattagg	428

<210> 29
 <211> 453
 <212> DNA
 <213> Escherichia coli

<400> 29	
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gttcaaacat gagagcttag tacgtgaaac atgagagctt agtacgttag ccatgagagc	180
ttagtacgtt agccatgagg gtttagttcg ttaaacaatga gagcttagta cgtaaacaat	240
gagagcttag tacgttaaac atgagagctt agtacgtact atcaacaggt tgaactgctg	300
atccacgttg tggtagaatt ggtaaagaga gtcgtgtaaa atatcgagtt cgcacatctt	360

gttgtctgat tattgatttt tggcgaaacc atttgatcat atgacaagat gtgtatctac	420
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<210> 30
 <211> 450
 <212> DNA
 <213> Escherichia coli

<400> 30	
ggcttggtgt ccacaacat taaaccttaa aagctttaaa agccttatat attctttttt	60
ttcttataaa acttaaaacc ttagaggcta tttaagttgc tgatttatat taattttatt	120
gttcaaacat gagagcttag tacgtgaaac atgagagctt agtacattag ccatgagagc	180
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gagagcttag tacattaaac atgagagctt agtacatact atcaacaggt tgaactgctg	300
atctgtacag tagaattggt aaagagagtt gtgtaaaata ttgagttcgc acatcttggt	360
gtctgattat tgatttttgg cgaaaccatt tgatcatatg acaagatgtg tatctacctt	420
aacttaatga ttttgataaa aatcattagg	450

<210> 31
 <211> 1671
 <212> DNA
 <213> Artificial Sequence

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

<400> 31	
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aaataaccct gtccctggtg gtctagccac tacgggtcta ggctgcccac gtaaggaggc	180
aaggcctggg gacacccgag atgcctggtt ataattaacc cagacatgtg gctgcccccc	240
ccccccaac acctgtgcc tgctaaaaat aaccctgtcc ctggtggtct agccactacg	300
ggtctaggct gcccataat ggaggcaagg cctggggaca cccgagatgc ctggttataa	360

ttaaccaga catgtggctg ccccccccc cccaacacct gctgcctgct aaaaataacc	420
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tcgggtccta gagggacctt gctcaggtac cccctgcccc ccacagctcc tctcctgtgc	540
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gctgttgctg ccaggagat ggttgggttg acatgcggct cctgacaaaa cacaaccccc	660
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actgaaagct tatcagaccc tttctggaaa tcagcccact gtttataaac ttgaggcccc	840
accctcgaca gtaccgggga ggaagagggc ctgcactagt ccaggaggaa actgaggctc	900
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gccaggcgtc tccctgccct ccttctctgc ctagagaccc ccaccctcaa gcctggctgg	1020
tctttgcctg agacccaaac ctcttcgact tcaagagaat atttaggaac aagggtggtt	1080
agggcctttc ctgggaacag gccttgaccc ttttaagaaat gacccaaagt ctctccttga	1140
ccaaaaagg gaccctcaaa ctaaaggga gcctctcttc tgctgtctcc cctgacccca	1200
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cagacatgct tgctgcctgc cctggcgaag gattggcagg cttgcccgtc acaggacccc	1320
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ccacgggccg ccttttctg gcaggacagc gggatcttgc agctgtcagg ggaggggagg	1440
cgggggctga tgtcaggagg gatacaaata gtgccgacgg ctgggggccc tgtctcccct	1500
cgccgcatcc actctccggc cggccgcctg cccgccgcct cctccgtgcg cccgccagcc	1560
tcgcccgcgc cgtcacctct agaaagagg aagggttttaa gggatgggtt gttggtgggg	1620
tattaatgtt taattacctg gagcacctgc ctgaaatcac tttttttcag g	1671

<210> 32

<211> 1666

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 32

ccactacggg tctaggctgc ccatgtaagg aggcaaggcc tggggacacc cgagatgcct	60
ggttataatt aaccagaca tgtggctgcc ccccccccc caacacctgc tgcctgctaa	120
aaataaccct gtccctgggt gtctagccac tacgggtcta ggctgcccac gtaaggaggc	180
aaggcctggg gacacccgag atgcctgggt ataattaacc cagacatgtg gctgcccccc	240
ccccccaac acctgctgcc tgctaaaaat aaccctgtcc ctggtgggtct agccactacg	300
ggtctaggct gcccataa ggaggcaagg cctggggaca cccgagatgc ctggttataa	360
ttaaccagaca catgtggctg ccccccccc cccaacacct gctgcctgct aaaaataacc	420
ctgtccctgg tggcttagag gaggggggca agggcagggg gaggcacctt cctcaggaca	480
tcgggtccta gagggacctt gctcaggtac cccctgcccc ccacagctcc tctcctgtgc	540
cttgtttccc agccatgcgt tctcctctat aaatacccg c tctggtattt ggggttggca	600
gctgttgctg ccaggagat ggttgggttg acatgcggct cctgacaaaa cacaaccccc	660
tgggtgtgtg gggcgtgggt ggtgtgagta gggggatgaa tcaggaggagg ggcgggggac	720
ccagggggca ggagccacac aaagtctgtg cgggggtggg agcgcacata gcaattggaa	780
actgaaagct tatcagaccc tttctggaaa tcagcccact gtttataaac ttgaggcccc	840
accctcgaca gtaccgggga ggaagagggc ctgcactagt ccaggaggaa actgaggctc	900
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gccaggcgtc tccctgccct cccttcctgc ctagagaccc ccaccctcaa gcctggctgg	1020
tctttgcctg agacccaaac ctcttcgact tcaagagaat atttaggaac aagggtggtt	1080
agggcctttc ctgggaacag gccttgaccc tttaagaaat gacccaaagt ctctccttga	1140
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ctcccccca cccagagac aggagataac cagggtgaa agaggcccg cctggggctg	1260
cagacatgct tgctgcctgc cctggcgaag gattggcagg cttgcccgtc acaggacccc	1320
cgctggctga ctcaggggag caggcctctt gcgggggagc tggcctcccc gccccacgg	1380

ccacgggccg ccctttcctg gcaggacagc gggatccttc agctgtcagg ggaggggagg	1440
cgggggctga tgtcaggagg gatataaaaag gtgagctcgt ttagtgaacc gtcagtccgc	1500
ctggagacct cgagccgagc ggtcgtccgc cgcctcctcc gtgcgcccgc cagcctcgcc	1560
cgcgccgtca cctctagaaa gaggtaaggg ttttaagggat ggttggttgg tggggtatta	1620
atgtttaatt acctggagca cctgcctgaa atcacttttt ttcagg	1666

<210> 33

<211> 1199

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 33

ccactacggg tctaggctgc ccatgtaagg aggcaaggcc tggggacacc cgagatgcct	60
ggttataatt aacccagaca tgtggctgcc ccccccccc caacacctgc tgcctgctaa	120
aaataaccct gtccctgggtg gtctagccac tacgggtcta ggctgccccat gtaaggaggc	180
aaggcctggg gacacccgag atgcctgggtt ataattaacc cagacatgtg gctgcccccc	240
ccccccaac acctgtgcc tgctaaaaat aaccctgtcc ctggtggtct agccactacg	300
ggtctaggct gcccattgaa ggaggcaagg cctggggaca cccgagatgc ctggttataa	360
ttaaccaga catgtggctg ccccccccc cccaacacct gctgcctgct aaaaataacc	420
ctgtccctgg tggcttagag gaggggggca agggcagggg gaggcacctt cctcaggaca	480
tcgggtccta gagggacctt gctcaggtag cccctgcccc ccacagctcc tctcctgtgc	540
cttgtttccc agccatgcgt tctcctctat aaataccgc tctggtatatt ggggttggca	600
gctgttgctg ccaggagat ggttggttg acatgcggct cctgacaaaa cacaaccccc	660
tgggtgtgtg gggcgtgggt ggtgtgagta gggggatgaa tcaggagggg ggcgggggac	720
ccagggggca ggagccacac aaagtctgtg cgggggtggg agcgcacata gcaattggaa	780
actgaaagct gacatgcttg ctgcctgccc tggcgaagga ttggcaggct tgcccgtcac	840

aggacccccg ctggctgact caggggcgca ggcctcttgc gggggagctg gcctccccgc	900
ccccacggcc acgggccgcc ctttcctggc aggacagcgg gatcttgag ctgtcagggg	960
aggggagggcg ggggctgatg tcaggaggga tacaatatgt gccgacggct gggggccctg	1020
tctccccctg ccgcatccac tctccggccg gccgcctgcc cggcgctcc tccgtgcgcc	1080
cgccagcctc gcccgcgccg tcacctctag aaagaggtaa gggtttaagg gatggttggt	1140
tggtggggta ttaatgttta attacctgga gcacctgcct gaaatcactt tttttcagg	1199

<210> 34

<211> 1194

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 34

ccactacggg tctaggctgc ccatgtaagg aggcaaggcc tggggacacc cgagatgcct	60
ggttataatt aacccagaca tgtggctgcc ccccccccc caacacctgc tgcctgctaa	120
aaataaccct gtccctgggtg gtctagccac tacgggtcta ggctgccccat gtaaggaggc	180
aaggcctggg gacacccgag atgcctgggtt ataattaacc cagacatgtg gctgcccccc	240
ccccccaac acctgtgcc tgctaaaaat aaccctgtcc ctgggtggtct agccactacg	300
ggtctaggct gcccattgaa ggaggcaagg cctggggaca cccgagatgc ctggttataa	360
ttaaccaga catgtggctg ccccccccc cccaacacct gctgcctgct aaaaataacc	420
ctgtccctgg tggcttagag gaggggggca agggcagggg gaggcacctt cctcaggaca	480
tcgggtccta gagggacctt gctcaggtag cccctgcccc ccacagctcc tctcctgtgc	540
cttgtttccc agccatgcgt tctcctctat aaataccgc tctggtatgtt ggggttgga	600
gctgttgctg ccaggagat ggttgggttg acatgcggct cctgacaaaa cacaaccccc	660
tggtgtgtgt gggcgtgggt ggtgtgagta gggggatgaa tcaggagggg ggcgggggac	720
ccagggggca ggagccacac aaagtctgtg cgggggtggg agcgcacata gcaattggaa	780
actgaaagct gacatgcttg ctgcctgccc tggcgaagga ttggcaggct tgcccgtcac	840

aggacccccg ctggctgact caggggcgca ggcctcttgc gggggagctg gcctccccgc	900
ccccacggcc acgggcccgc ctttcctggc aggacagcgg gatcttgacg ctgtcagggg	960
aggggaggcg ggggctgatg tcaggaggga tataaaaggt gagctcgttt agtgaaccgt	1020
cagtccgcct ggagacctcg agccgagcgg tcgtccgccg cctcctccgt gcgcccgcca	1080
gcctcgccccg cgccgtcacc tctagaaaaga ggtaagggtt taagggatgg ttggttggtg	1140
gggtattaat gtttaattac ctggagcacc tgcctgaaat cacttttttt cagg	1194

<210> 35

<211> 1717

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 35

ccactacggg tctaggctgc ccatgtaagg aggcaaggcc tggggacacc cgagatgcct	60
ggttataatt aaccagaca tgtggctgcc ccccccccc caacacctgc tgcctgctaa	120
aaataaccct gtccctgggtg gtctagccac tacgggtcta ggctgcccac gtaaggaggc	180
aaggcctggg gacacccgag atgcctgggtt ataattaacc cagacatgtg gctgcccccc	240
ccccccaac acctgtgcc tgctaaaaat aaccctgtcc ctggtggtct agccactacg	300
ggtctaggct gcccagtaa ggaggcaagg cctggggaca cccgagatgc ctggttataa	360
ttaaccaga catgtggctg ccccccccc cccaacacct gctgcctgct aaaaataacc	420
ctgtccctgg tggcttagag gaggggggca agggcagggg gaggcacctt cctcaggaca	480
tcgggtccta gagggacctt gctcaggtag cccctgcccc ccacagctcc tctcctgtgc	540
cttgtttccc agccatgcgt tctcctctat aaataccgc tctggtatatt ggggttgga	600
gctgttgctg ccaggagat ggttgggttg acatgcggct cctgacaaaa cacaaacccc	660
tgggtgtgtg gggcgtgggt ggtgtgagta gggggatgaa tcaggagggg ggcgggggac	720
ccagggggca ggagccacac aaagtctgtg cgggggtggg agcgcacata gcaattggaa	780

actgaaagct tatcagaccc tttctggaaa tcagcccact gtttataaac ttgaggcccc	840
accctcgaca gtaccgggga ggaagagggc ctgcactagt ccagaggga actgaggctc	900
agggctagct cgcccataga catacatggc aggcaggctt tggccaggat ccctccgcct	960
gccaggcgtc tccctgccct cccttcctgc ctagagaccc ccaccctcaa gcctggctgg	1020
tctttgcctg agacccaaac ctcttcgact tcaagagaat atttaggaac aaggtggttt	1080
agggcctttc ctgggaacag gccttgaccc tttaagaaat gacccaaagt ctctccttga	1140
ccaaaaaggg gaccctcaaa ctaaaggga gcctctcttc tgctgtctcc cctgacccca	1200
ctcccccca cccaggacg aggagataac cagggtgaa agaggccgc ctgggggctg	1260
cagacatgct tgctgcctgc cctggcgaag gattggcagg cttgcccgtc acaggacccc	1320
cgctggctga ctcaggggcg caggcctctt gcgggggagc tggcctcccc gccccacgg	1380
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ctggagacct cgagccgagc ggtcgtccgc cgcctcctcc gtgcgcccgc cagcctcgcc	1560
cgcgccgtca cctctagaca caggtaagta tcaaggttac aagacaggtt taaggaggcc	1620
aatagaaact gggcttgtcg agacagagaa gattcttgcg tttctgatag gcacctattg	1680
gtcttactga catccacttt gcctttctct ccacagg	1717

<210> 36

<211> 1244

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 36

ccactacggg tctaggctgc ccatgtaagg aggcaaggcc tggggacacc cgagatgcct	60
ggttataatt aacccagaca tgtggctgcc ccccccccc caacacctgc tgcctgctaa	120
aaataaccct gtccctgggtg gtctagccac tacgggtcta ggctgcccac gtaaggaggc	180
aaggcctggg gacacccgag atgcctgggtt ataattaacc cagacatgtg gctgcccccc	240

ccccccaac acctgctgcc tgctaaaaat aaccctgtcc ctggtggtct agccactacg	300
ggtctaggct gcccattgtaa ggaggcaagg cctggggaca cccgagatgc ctggttataa	360
ttaaccaga catgtggctg ccccccccc cccaacacct gctgcctgct aaaaataacc	420
ctgtccctgg tggcttagag gaggggggca agggcagggg gaggcacctt cctcaggaca	480
tcgggtccta gagggacctt gctcaggtag cccctgcccc ccacagctcc tctcctgtgc	540
cttgtttccc agccatgctg tctcctctat aaatacccg c tctggtatattt ggggttggca	600
gctgttgctg ccaggagat ggttgggttg acatgaggct cctgacaaaa cacaaccccc	660
tgggtgtgtg gggcgtgggt ggtgtgagta gggggatgaa tcaggagggg ggcgggggac	720
ccagggggca ggagccacac aaagtctgtg cgggggtggg agcgcacata gcaattggaa	780
actgaaagct acatgcttgc tgcctgccct ggccaaggat tggcaggctt gcccgtcaca	840
ggacccccgc tggctgactc aggggcgcag gcctcttgcg ggggagctgg cctccccgcc	900
cccacggcca cgggccgccc tttcctggca ggacagcggg atcttgcagc tgtcagggga	960
ggggaggcgg gggctgatgt caggagggat ataaaagggtg agctcgttta gtgaaccgtc	1020
agtccgcctg gagacctga gccgagcggg cgtccgccgc ctctccgtg cggccgag	1080
cctcgccgc gccgtcacct ctagacacag gtaagtatca aggttacaag acaggtttaa	1140
ggaggccaat agaaactggg cttgtcgaga cagagaagat tcttgcgttt ctgataggca	1200
cctattgggtc ttactgacat ccactttgcc tttctctcca cagg	1244

<210> 37

<211> 211

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 37

ccactacggg tctaggctgc ccatgtaagg aggcaaggcc tggggacacc cgagatgcct	60
gggtataatt aacccaaca cctgctgccc ccccccccc aacacctgct gcctgagcct	120

gagcggttac cccaccccgg tgcctgggtc ttaggctctg tacaccatgg aggagaagct	180
cgctctaaaa ataaccctgt ccctgggtgga t	211

<210> 38
 <211> 633
 <212> DNA
 <213> Artificial Sequence

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

<400> 38	
ccactacggg tctaggctgc ccatgtaagg aggcaaggcc tggggacacc cgagatgcct	60
ggttataatt aacccaaca cctgctgccc ccccccccc aacacctgct gcctgagcct	120
gagcggttac cccaccccgg tgcctgggtc ttaggctctg tacaccatgg aggagaagct	180
cgctctaaaa ataaccctgt ccctgggtgga tccactacgg gtctaggctg cccatgtaag	240
gaggcaaggc ctggggacac ccgagatgcc tggttataat taacccaac acctgctgcc	300
cccccccccc caacacctgc tgcctgagcc tgagcggtta cccaccccgc gtgcctgggt	360
cttaggctct gtacaccatg gaggagaagc tcgctctaaa aataaccctg tccctgggtg	420
atccactacg ggtctaggct gccatgtaa ggaggcaagg cctggggaca cccgagatgc	480
ctggttataa ttaacccaac cacctgctgc ccccccccc ccaacacctg ctgcctgagc	540
ctgagcgggt accccacccc ggtgcctggg tcttaggctc tgtacaccat ggaggagaag	600
ctcgctctaa aaataaccct gtccctggtg gat	633

<210> 39
 <211> 133
 <212> DNA
 <213> Mus sp.

<400> 39	
cctccctggg gacagcccct cctggctagt cacaccctgt aggctcctct atataacca	60
ggggcacagg ggctgccctc attctaccac cacctccaca gcacagacag acactcagga	120
gccagccagc cag	133

<210> 40
 <211> 407
 <212> DNA
 <213> Mus sp.

<400> 40
 aatcaaggct gtgggggact gagggcaggc tgtaacaggc ttgggggcca gggcttatac 60
 gtgcctggga ctcccaaagt attactgttc catgttcccg gcgaagggcc agctgtcccc 120
 cgccagctag actcagcact tagtttagga accagtgagc aagtcagccc ttggggcagc 180
 ccatacaagg ccatggggct gggcaagctg cacgcctggg tccgggggtgg gcacggtgcc 240
 cgggcaacga gctgaaagct catctgtctt caggggcccc tccctgggga cagccccctc 300
 tggctagtca caccctgtag gtcctcttat ataaccagg ggcacagggg ctgcccccg 360
 gtcaccacca cctccacagc acagacagac actcaggagc cagccag 407

<210> 41
 <211> 96
 <212> DNA
 <213> Mus sp.

<400> 41
 ccagcccacc tgtccaatg ctgacttagt gcaaggcgag ccagcaagga gggaggacag 60
 gtggcagtgg ggggtgagga gcatctaaaa atagcc 96

<210> 42
 <211> 179
 <212> DNA
 <213> Artificial Sequence

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

<400> 42
 gtaagggttt aagggatggt tggttggtgg ggtccagccc acctgtccca atgctgactt 60
 agtgcaaggc gagccagcaa ggaggaggga caggtggcag tgggggggtga ggagcatcta 120
 aaaatagcct attaatgttt aattacctgg agcacctgcc tgaaatcact ttttttcag 179

<210> 43
 <211> 133
 <212> DNA
 <213> Artificial Sequence

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

<400> 43
 cctccctggg gacagcccct cctggctagt cacaccctgt aggctcctct atataaccca 60
 ggggcacagg ggctgccctc attctaccac cacctccaca gcacagacag acactcagga 120
 gccagccagc cag 133

<210> 44
 <211> 212
 <212> DNA
 <213> Simian virus 40

<400> 44
 ctgtggaatg tgtgtcagtt aggggtgtgga aagtccccag gctccccagc aggcagaagt 60
 atgcaaagca tgcatctcaa ttagtcagca accagggtgtg gaaagtcccc aggctcccca 120
 gcaggcagaa gtatgcaaag catgcatctc aattagtcag caaccatagt cccgccccta 180
 actccgcca tcccgcccct aactccgccc ag 212

<210> 45
 <211> 637
 <212> DNA
 <213> Cytomegalovirus sp.

<400> 45
 ttacgggggtc attagttcat agcccatata tggagttccg cgttacataa cttacggtaa 60
 atggccccgcc tggctgaccg cccaacgacc cccgcccatt gacgtcaata atgacgtatg 120
 ttcccatagt aacgccaata gggactttcc attgacgtca atgggtggag tatttacggt 180
 aaactgcca cttggcagta catcaagtgt atcatatgcc aagtacgccc cctattgacg 240
 tcaatgacgg taaatggccc gcctggcatt atgcccagta catgacctta tgggactttc 300
 ctacttggca gtacatctac gtattagtca tcgctattac catggtgatg cggttttggc 360

agtacatcaa tgggcgtgga tagcggtttg actcacgggg atttccaagt ctccacccca	420
ttgacgtcaa tgggagtttg ttttggcacc aaaatcaacg ggactttcca aaatgtcgta	480
acaactccgc cccattgacg caaatgggcg gtaggcgtgt acggtgggag gtctatataa	540
gcagagctcg tttagtgaac cgtcagatcg cctggagacg ccatccacgc tgttttgacc	600
tccatagaag acaccgggac cgatccagcc tccgcgg	637

<210> 46
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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

<400> 46	
cagagaggaa tgcaacactt gca	23

<210> 47
 <211> 51
 <212> DNA
 <213> Artificial Sequence

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

<400> 47	
ctagacagag aggaatgcaa cacttgcaca gagaggaatg caacacttgc a	51

<210> 48
 <211> 333
 <212> DNA
 <213> Artificial Sequence

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

<400> 48	
ggccgtccgc cctcggcacc atcctcacga cacccaaata tggcgacggg tgaggaatgg	60
tggggagtta tttttagagc ggtgaggaag gtgggcaggc agcaggtgtt ggcgctctaa	120

aaataactcc cgggagttat ttttagagcg gaggaatggt ggacacccaa atatggcgac	180
ggttcctcac ccgtcgccat atttgggtgt ccgcccctcg ccggggccgc attcctgggg	240
gccgggcggt gctcccgccc gcctcgataa aaggctccgg ggccggcggc ggcccacgag	300
ctacccggag gagcgggagg cgccaagctc tag	333

<210> 49
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 49	
gagataacca gggctgaaag aggcccgctt gggggctgca gacatgcttg ctgcctgccc	60
tggcgaagga ttggcaggct tgcccgtcac aggacccccg ctggctgact caggggcgca	120
ggccttttgc gggggagctg gcctccccgc cccacggcc acgggcccgc ctttcctggc	180
aggacagcgg gatcttgtag ctgtcagggg aggggaggcg ggggctgatg tcaggaggga	240
tacaaatagt gccgacggct gggggccctg tctcccctcg ccgcatccac tctccggccg	300
gccgcctgcc cgccgcctcc tccgtgcgcc cgccagcctc gcccgcgccg tcacc	355

<210> 50
 <211> 359
 <212> DNA
 <213> Homo sapiens

<400> 50	
cacccatgcc tcctcaggta cccctgccc cccacagctc ctctcctgtg ccttgtttcc	60
cagccatgcg ttctcctcta taaatacccc ctctggtatt tggggttggc agctgttgct	120
gccagggaga tggttgggtt gacatgcggc tcctgacaaa acacaaaccc ctggtgtgtg	180
tgggcgtggg tggtgtgagt agggggatga atcagggagg gggcagggga cccagggggc	240
aggagccaca caaagtctgt gcgggggtgg gagcgcacat agcaattgga aactgaaagc	300
ttatcagacc ctttctggaa atcagcccac tgtttataaa cttgaggccc caccctcg	359

<210> 51
 <211> 588

<212> DNA

<213> Cytomegalovirus sp.

<400> 51

ttgacattga ttattgacta gttattaata gtaatcaatt acggggtcat tagttcatag	60
cccatatatg gagttccgcg ttacataact tacggtaaata ggcccgctg gctgaccgcc	120
caacgacccc cgccattga cgtcaataat gacgtatgtt cccatagtaa cgccaatagg	180
gactttccat tgacgtcaat ggggtggacta tttacggtaa actgcccact tggcagtaca	240
tcaagtgtat catatgccaa gtacgcccc tattgacgtc aatgacggta aatggccgcg	300
ctggcattat gccagtaca tgacctatg ggactttcct acttggcagt acatctacgt	360
attagtcatc gctattacca tggatgacg gttttggcag tacatcaatg ggctggata	420
gcggtttgac tcacggggat ttccaagtct ccacccatt gacgtcaatg ggagtttgtt	480
ttggcaccaa aatcaacggg actttccaaa atgtcgtaac aactccgcc cattgacgca	540
aatgggcggt aggcgtgtac ggtgggaggt ctatataagc agagctct	588

<210> 52

<211> 635

<212> DNA

<213> Homo sapiens

<400> 52

acacacctac tagtaacccc tccagctggt gatggcaggt ctaggtagg accagtgact	60
ggctcctaata cgagcactct attttcaggg ttgtcattcc aaaagggtca ggtccaagag	120
ggacctggag tgccaagtgg aggtgtagag gcacggccag tacccatgga gaatggtgga	180
tgtccttagg ggtagcaag tgccgtgtgc taaggagggg gctttggagg ttgggcaggc	240
cctctgtggg gctccatttt tgtgggggtg ggggctggag cattataggg ggtgggaagt	300
gattggggct gtcaccctag ccttccttat ctgacgcca cccatgcctc ctcaggtacc	360
ccctgcccc cacagctcct ctctgtgcc ttgtttcca gccatgcgtt ctctctata	420
aatacccgct ctggtatttg gggttggcag ctgttgctgc caggagatg gttgggttga	480
catgcggctc ctgacaaaac acaaaccct ggtgtgtgtg ggcgtgggtg gtgtgagtag	540
ggggatgaat caggagggg gcgggggacc cagggggcag gagccacaca aagtctgtgc	600

gggggtggga gcgcacatag caattggaaa ctgaa

635

<210> 53

<211> 341

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 53

ctcgcacatc tccttcacgc gcccgccgcc ctacctgagg ccgccatcca cgccggttga 60

gtcgcgttct gccgcctccc gcctgtgggtg cctcctgaac tgcgtccgcc gtctaggtaa 120

gtttaaagct caggtcgaga ccgggccttt gtccggcgct cccttggagc ctacctagac 180

tcagccggct ctccacgctt tgcctgaccc tgcttgctca actctagttc tctcgtaa 240

ttaatgagac agatagaaac tggctttgta gaaacagagt agtcgcctgc ttttctgcca 300

ggtgctgact tctctcccct gggctttttt ctttttctca g 341

<210> 54

<211> 142

<212> DNA

<213> Mus sp.

<400> 54

agccactacg ggtctaggct gcccatgtaa ggaggcaagg cctggggaca cccgagatgc 60

ctggttataa ttaaccccaa cacctgctgc ccccccccc ccaacacctg ctgcctgcta 120

aaaataaacc tgtccctggg gg 142

<210> 55

<211> 1572

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 55

ccactacggg tctaggctgc ccatgtaagg aggcaaggcc tggggacacc cgagatgcct	60
ggttataatt aaccagaca tgtggctgcc ccccccccc caacacctgc tgcctgctaa	120
aaataaccct gtccctgggtg gtctagccac tacgggtcta ggctgcccac gtaaggaggc	180
aaggcctggg gacacccgag atgcctgggtt ataattaacc cagacatgtg gctgcccccc	240
ccccccaac acctgctgcc tgctaaaaat aaccctgtcc ctggtggtct agccactacg	300
ggtctaggct gcccattgaa ggaggcaagg cctggggaca cccgagatgc ctggttataa	360
ttaaccaga catgtggctg ccccccccc cccaacacct gctgcctgct aaaaataacc	420
ctgtccctgg tggctagag gaggggggac agggcagggg gaggcattct cctcaggaca	480
tcgggtccta gagggacctt gcttcctagc tgggcctttc cttctcctct ataaatacca	540
gctctggtat ttcgccttgg cagctgttgc tgctaggag acggctggct tgacatgcat	600
ctcctgacaa aacacaaacc cgtggtgtga gtgggtgtgg gcggtgtgag tagggggatg	660
aatcagagag ggggcgaggg agacaggggc gcaggagtca ggcaaaggcg atgcgggggt	720
gcgactacac gcagttggaa acagtcgtca gaagattctg gaaactatct tgctggctat	780
aaacttgagg gaagcagaag gccaacattc ctccaaggga aaactgaggc tcagagttaa	840
aaccaggta tcagtgatat gcatgtgccc cggccagggt cactctctga ctaaccgga	900
cctaccctac aggcctacct agagactctt ttgaaaggat ggtagagacc tgtccgggct	960
ttgcccacag tcgttggaac cctcagcatt ttctaggcaa cttgtgcgaa taaaacactt	1020
cgggggtcct tcttgttcat tccaataacc taaaacctct cctcggagaa aatagggggc	1080
ctcaaacaaa cgaaattctc tagcccgtt tccccaggat aaggcaggca tccaaatgga	1140
aaaaaagggg ccggccgggg gtctcctgtc agctccttgc cctgtgaaac ccagcaggcc	1200
tgcctgtctt ctgtcctctt ggggctgtcc aggggcgcag gcctcttgcg ggggagctgg	1260
cctccccgcc ccctgcctg tggccgccct tttcctggca ggacagaggg atcctgcagc	1320
tgtcagggga ggggcgccgg ggggtgatgt caggagggt acaaatagtg cagacagcta	1380
aggggctccg tcacccatct tcacatccac tccagccggc tgcccgcccg ctgcctctc	1440
tgtgcgtccg ccagccagc ctgctccacg ccgccacctc tagaaagagg taagggttta	1500

agggatgggtt gggttggtggg gtattaatgt ttaattacct ggagcacctg cctgaaatca	1560
cttttttttca gg	1572

<210> 56
 <211> 1567
 <212> DNA
 <213> Artificial Sequence

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

<400> 56	
ccactacggg tctaggctgc ccatgtaagg aggcaaggcc tggggacacc cgagatgcct	60
ggttataatt aaccagaca tgtggctgcc ccccccccc caacacctgc tgcctgctaa	120
aaataaccct gtccctgggtg gtctagccac tacgggtcta ggctgcccac gtaaggaggc	180
aaggcctggg gacacccgag atgcctgggtt ataattaacc cagacatgtg gctgcccccc	240
ccccccaac acctgctgcc tgctaaaaat aaccctgtcc ctggtgggtc agccactacg	300
ggcttaggct gcccattgaa ggaggcaagg cctggggaca cccgagatgc ctggttataa	360
ttaaccaga catgtggctg ccccccccc cccaacacct gctgcctgct aaaaataacc	420
ctgtccctgg tggcttaagg aggggggaca gggcaggggg aggcattctc ctcaggacat	480
cgggtcctag agggacctg cttcctagct gggcctttcc ttctcctcta taaataccag	540
ctctgggtatt tcgccttggc agctgttgct gctagggaga cggctggctt gacatgcatc	600
tcctgacaaa acacaaacc gtggtgtgag tgggtgtggg cgggtgtgagt agggggatga	660
atcagagagg gggcgaggga gacaggggag caggagtcag gcaaaggcga tgcgggggtg	720
cgactacacg cagttggaaa cagtcgtcag aagattctgg aaactatctt gctggctata	780
aacttgaggg aagcagaagg ccaacattcc tccaaggga aactgaggct cagagttaaa	840
accaggtat cagtgatatg catgtgcccc ggccagggtc actctctgac taaccggtac	900
ctaccctaca ggccctaccta gagactcttt tgaaaggatg gtagagacct gtccgggctt	960
tgcccacagt cgttggaac ctcagcattt tctaggcaac ttgtgcgaat aaaacacttc	1020
gggggtcctt cttgttcatt ccaataacct aaaacctctc ctcggagaaa atagggggcc	1080

tcaaacaac gaaattctct agcccgcttt cccagagata aggcaggcat ccaaattgaa	1140
aaaaaggggc cggccggggg tctcctgtca gtccttgcc ctgtgaaacc cagcaggcct	1200
gcctgtcttc tgtcctcttg gggctgtcca ggggcgcagg cctcttgccg gggagctggc	1260
ctccccgcc cctcgcctgt ggccgccctt ttcctggcag gacagaggga tcctgcagct	1320
gtcaggggag gggcgccggg gggatgatgtc agggaggcta taaaaggatga gtcggttag	1380
tgaaccgtca gtccgcctgg agacctcgag ccgagcggtc gtccgctgcc tcctctgtgc	1440
gtccgcccag ccagcctcgt ccacgccgcc acctctagaa agaggtaagg gtttaaggga	1500
tggttggttg gtgggtatt aatgtttaat tacctggagc acctgcctga aatcactttt	1560
tttcagg	1567

<210> 57

<211> 1618

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 57

ccactacggg tctaggctgc ccatgtaagg aggcaaggcc tggggacacc cgagatgcct	60
ggttataatt aaccagaca tgtggctgcc ccccccccc caacacctgc tgcctgctaa	120
aaataaccct gtccctggtg gtctagccac tacgggtcta ggctgcccac gtaaggaggc	180
aaggcctggg gacacccgag atgcctggtt ataattaacc cagacatgtg gctgcccccc	240
ccccccaac acctgctgcc tgctaaaaat aaccctgtcc ctggtggtct agccactacg	300
ggtctaggct gcccattgaa ggaggcaagg cctggggaca cccgagatgc ctggttataa	360
ttaaccaga catgtggctg ccccccccc cccaacacct gctgcctgct aaaaataacc	420
ctgtccctgg tggctaaagg aggggggaca gggcaggggg aggcattctc ctcaggacat	480
cgggtcctag agggaccttg cttcctagct gggcctttcc ttctcctcta taaataccag	540
ctctggtatt tcgccttggc agctgttgct gctagggaga cggctggctt gacatgcac	600

tcctgacaaa acacaaaccc gtggtgtgag tgggtgtggg cggtgtgagt aggggggatga	660
atcagagagg gggcgaggga gacaggggcg caggagtcag gcaaaggcga tgcgggggtg	720
cgactacacg cagttggaaa cagtcgtcag aagattcttg aaactatctt gctggctata	780
aacttgaggg aagcagaagg ccaacattcc tccaaggga aactgaggct cagagttaaa	840
accaggtat cagtgatatg catgtgcccc ggccagggtc actctctgac taaccggtac	900
ctaccctaca ggcctaccta gagactcttt tgaaaggatg gtagagacct gtccgggctt	960
tgcccacagt cgttggaaac ctcagcattt tctaggcaac ttgtgcgaat aaaacacttc	1020
gggggtcctt cttgttcatt ccaataacct aaaacctctc ctcggagaaa atagggggcc	1080
tcaaacaac gaaattctct agcccgttt cccaggata aggcaggcat ccaaaggaa	1140
aaaaaggggc cggccggggg tctcctgtca gtccttgcc ctgtgaaacc cagcaggcct	1200
gcctgtcttc tgtcctcttg gggctgtcca ggggcgcagg cctcttgagg gggagctggc	1260
ctccccgcc cctgcctgt ggccgccctt ttcctggcag gacagaggga tcctgcagct	1320
gtcaggggag gggcgccggg gggatgatgtc aggagggcta taaaaggatga gctcgtttag	1380
tgaaccgtca gtccgccttg agacctcgag ccgagcggtc gtccgctgcc tcctctgtgc	1440
gtccgccag ccagcctcgt ccacgccgcc acctctagac acaggtaagt atcaaggta	1500
caagacaggt ttaaggaggc caatagaaac tgggcttgtc gagacagaga agattcttgc	1560
gtttctgata ggcacctatt ggtcttactg acatccactt tgcctttctc tccacagg	1618

<210> 58

<211> 1623

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 58

ccactacggg tctaggctgc ccatgtaagg aggcaaggcc tggggacacc cgagatgcct	60
ggttataatt aaccagaca tgtggctgcc ccccccccc caacacctgc tgcctgctaa	120
aaataacctt gtccctggtg gtctagccac tacgggtcta ggctgcccac gtaaggaggc	180

aaggcctggg gacacccgag atgcctgggtt ataattaacc cagacatgtg gctgcccccc	240
ccccccaac acctgtgcc tgctaaaaat aaccctgtcc ctggtggtct agccactacg	300
ggtctaggct gcccattgaa ggaggcaagg cctggggaca cccgagatgc ctggttataa	360
ttaaccaga catgtggctg ccccccccc cccaacacct gctgcctgct aaaaataacc	420
ctgtccctgg tggcttagag ggggggggac agggcagggg gaggcattct cctcaggaca	480
tcgggtccta gagggacctt gcttcctagc tgggcctttc cttctcctct ataaatacca	540
gctctggtat ttgccttgg cagctgttgc tgctaggagg acggctggct tgacatgcat	600
ctcctgacaa aacacaaacc cgtggtgtga gtgggtgtgg gcggtgtgag tagggggatg	660
aatcagagag ggggcgaggg agacaggggc gcaggagtca ggcaaaggcg atgcgggggt	720
gcgactacac gcagttggaa acagtcgtca gaagattctg gaaactatct tgctggctat	780
aaacttgagg gaagcagaag gccaacattc ctccaaggg aaactgaggc tcagagttaa	840
aaccaggta tcagtatat gcatgtgcc cgccagggt cactctctga ctaaccgta	900
cctaccctac aggcctacct agagactctt ttgaaaggat ggtagagacc tgtccgggct	960
ttgcccacag tcgttgga aa cctcagcatt ttctaggcaa cttgtgcgaa taaaacactt	1020
cgggggtcct tcttgttcat tccaataacc taaaacctct cctcggagaa aatagggggc	1080
ctcaaacaaa cgaaattctc tagcccgctt tccccaggat aaggcaggca tccaaatgga	1140
aaaaaagggg ccggccgggg gtctcctgtc agctccttgc cctgtgaaac ccagcaggcc	1200
tgctgtctt ctgtcctctt ggggctgtcc aggggcgcag gcctcttgcg ggggagctgg	1260
cctccccgcc ccctgcctg tggccgccct tttcctggca ggacagaggg atcctgcagc	1320
tgtcagggga ggggcgccgg ggggtgatgt caggagggt acaaatagtg cagacagcta	1380
aggggctccg tcacccatct tcacatccac tccagccggc tgcccgcccg ctgcctcctc	1440
tgtgcgtccg ccagccagc ctggtccacg ccgccacctc tagacacagg taagtatcaa	1500
ggttacaaga caggtttaag gaggccaata gaaactgggc ttgtcgagac agagaagatt	1560
cttgcgtttc tgataggcac ctattggtct tactgacatc cactttgcct ttctctccac	1620
agg	1623

<210> 59

<211> 68

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 59

tataaaaggt gagctcgttt agtgaaccgt cagtccgcct ggagacctcg agccgagcgg 60

tcgtccgc 68