SEQUENCE LISTING

<110> MeiraGTx, LLC
Guo, Xuecui

<120> REGULATION OF GENE EXPRESSION BY APTAMER-MODULATED

<130> 162027.48576

<150> US 62/466,138
<151> 2017-03-02

<160> 16

<170> PatentIn version 3.5

<210> 1
<211> 296
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 1
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagcg gccaattcgg acaaaaacga gacgctggtg gctggcactc ctggtttcca 120

ggacggggtt caagtccctg cggtgtctat aatcgcgtgg atatggcacg caagtttcta 180

ccgggcaccg taaatgtccg actagacacc atctagagtc gacctgcagg catgcaagct 240

tcagctgctc gagggcccag atctaattca ccccaccagt gcaggctgcc tatcag 296

<210> 2
<211> 305
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 2
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagcg gccgtaatgt ataatcgcgt ggatatggca cgcaagtttc taccgggcac 120

cgtaaatgtc cgactacatt acgacgctgg tggctggcac tcctggtttc caggacgggg 180

ttcaagtccc tgcggtgtct ttgcttggat cggccgcgac tctagagtcg acctgcaggc 240

atgcaagctt cagctgctcg agggcccaga tctaattcac cccaccagtg caggctgcct 300

atcag 305

<210> 3
<211> 304
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 3
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagcg gcccgatcat ataatcgcgt ggatatggca cgcaagtttc taccgggcac 120

cgtaaatgtc cgactatggt cgacgctggt ggctggcact cctggtttcc aggacggggt 180

tcaagtccct gcggtgtctt tgcttggatc ggccgcgact ctagagtcga cctgcaggca 240

tgcaagcttc agctgctcga gggcccagat ctaattcacc ccaccagtgc aggctgccta 300

tcag 304

<210> 4
<211> 310
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 4
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagcg gccggacaaa ataatcgcgt ggatatggca cgcaagtttc taccgggcac 120

cgtaaatgtc cgacttttgt ccaacgagac gctggtggct ggcactcctg gtttccagga 180

cggggttcaa gtccctgcgg tgtctttgct tggatcggcc gcgactctag agtcgacctg 240

caggcatgca agcttcagct gctcgagggc ccagatctaa ttcaccccac cagtgcaggc 300

tgcctatcag 310

<210> 5
<211> 305

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 5
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagaa gacgtaatgt ataatcgcgt ggatatggca cgcaagtttc taccgggcac 120

cgtaaatgtc cgactacatt acgacgctgg tggctggcac tcctggtttc caggacgggg 180

ttcaagtccc tgcggtgtct ttgcttggat cggccgcgac tctagagtcg acctgcaggc 240

atgcaagctt cagctgctcg agggcccaga tctaattcac cccaccagtg caggctgcct 300

atcag 305

<210> 6
<211> 498
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 6
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagaa gacgtaatgt ataatcgcgt ggatatggca cgcaagtttc taccgggcac 120

cgtaaatgtc cgactacatt acgacgctgg tggctggcac tcctggtttc caggacgggg 180

ttcaagtccc tgcggtgtct ttgcttggat cggccgcgac tctagagtcg acctgcaggc 240

atgcaagctt cagaagtaaa gaagacgtaa tgtataatcg cgtggatatg gcacgcaagt 300

ttctaccggg caccgtaaat gtccgactac attacgacgc tggtggctgg cactcctggt 360

ttccaggacg gggttcaagt ccctgcggtg tctttgcttg gatcggccgc gactctagag 420

tcgacctgca ggcatgcaag cttcagctgc tcgagggccc agatctaatt caccccacca 480

gtgcaggctg cctatcag 498

<210> 7
<211> 306
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 7
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagaa gagctaatgt ataatcgcgt ggatatggca cgcaagtttc taccgggcac 120

cgtaaatgtc cgactacatt agcgacgctg gtggctggca ctcctggttt ccaggacggg 180

gttcaagtcc ctgcggtgtc tttgcttgga tcggccgcga ctctagagtc gacctgcagg 240

catgcaagct tcagctgctc gagggcccag atctaattca ccccaccagt gcaggctgcc 300

tatcag 306

<210> 8
<211> 307
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 8
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagaa gagctaatgt ataatcgcgt ggatatggca cgcaagtttc taccgggcac 120

cgtaaatgtc cgactacatt agcagacgct ggtggctggc actcctggtt tccaggacgg 180

ggttcaagtc cctgcggtgt ctttgcttgg atcggccgcg actctagagt cgacctgcag 240

gcatgcaagc ttcagctgct cgagggccca gatctaattc accccaccag tgcaggctgc 300

ctatcag 307

<210> 9
<211> 308
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 9
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagaa gagctaatgt ataatcgcgt ggatatggca cgcaagtttc taccgggcac 120

cgtaaatgtc cgactacatt agcgagacgc tggtggctgg cactcctggt ttccaggacg 180

gggttcaagt ccctgcggtg tctttgcttg gatcggccgc gactctagag tcgacctgca 240

ggcatgcaag cttcagctgc tcgagggccc agatctaatt caccccacca gtgcaggctg 300

cctatcag 308

<210> 10
<211> 309
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 10
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagaa gagctaatgt ataatcgcgt ggatatggca cgcaagtttc taccgggcac 120

cgtaaatgtc cgactacatt agccgagacg ctggtggctg gcactcctgg tttccaggac 180

ggggttcaag tccctgcggt gtctttgctt ggatcggccg cgactctaga gtcgacctgc 240

aggcatgcaa gcttcagctg ctcgagggcc cagatctaat tcaccccacc agtgcaggct 300

gcctatcag 309

<210> 11
<211> 297
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 11
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagcg gccaattcgg acaaaaacga gacgctggtg gctggcactc ctggtttcca 120

ggacggggtt caagtccctg cggtgtctta taatcgcgtg gatatggcac gcaagtttct 180

accgggcacc gtaaatgtcc gactaagaca catctagagt cgacctgcag gcatgcaagc 240

ttcagctgct cgagggccca gatctaattc accccaccag tgcaggctgc ctatcag 297

<210> 12
<211> 298
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 12
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagcg gccaattcgg acaaaaacga gacgctggtg gctggcactc ctggtttcca 120

ggacggggtt caagtccctg cggtgtctgt ataatcgcgt ggatatggca cgcaagtttc 180

taccgggcac cgtaaatgtc cgactacaga caatctagag tcgacctgca ggcatgcaag 240

cttcagctgc tcgagggccc agatctaatt caccccacca gtgcaggctg cctatcag 298

<210> 13
<211> 299
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 13
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagcg gccaattcgg acaaaaacga gacgctggtg gctggcactc ctggtttcca 120

ggacggggtt caagtccctg cggtgtctag tataatcgcg tggatatggc acgcaagttt 180

ctaccgggca ccgtaaatgt ccgactacta gacttctaga gtcgacctgc aggcatgcaa 240

gcttcagctg ctcgagggcc cagatctaat tcaccccacc agtgcaggct gcctatcag 299

<210> 14
<211> 314
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 14
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagaa gactgcgacg ataatcgcgt ggatatggca cgcaagtttc taccgggcac 120

cgtaaatgtc cgactcgtcg cagggccagt ggcgcaatgg ataacgcgtc tgactacgga 180

tcagaagatt ccaggttcga ctcctggctg gctcggtgta ggccgcgact ctagagtcga 240

cctgcaggca tgcaagcttc agctgctcga gggcccagat ctaattcacc ccaccagtgc 300

aggctgccta tcag 314

<210> 15
<211> 307
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 15
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagcg gccgtaatgt tataacctca ataatatggt ttgagggtgt ctaccaggaa 120

ccgtaaaatc ctgattaaca ttacgacgct ggtggctggc actcctggtt tccaggacgg 180

ggttcaagtc cctgcggtgt ctttgcttgg atcggccgcg actctagagt cgacctgcag 240

gcatgcaagc ttcagctgct cgagggccca gatctaattc accccaccag tgcaggctgc 300

ctatcag 307

<210> 16
<211> 275
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 16
cctcataaag gccaagaagg gcggaaagat cgccgtgtaa ggatccaaga cgagctgtac 60

aagtaaagcg gcctaatgtg ataccagccg aaaggccctt ggcagcacat tagacgctgg 120

tggctggcac tcctggtttc caggacgggg ttcaagtccc tgcggtgtct ttgcttggat 180

cggccgcgac tctagagtcg acctgcaggc atgcaagctt cagctgctcg agggcccaga 240

tctaattcac cccaccagtg caggctgcct atcag 275