

SEQUENCE LISTING

<110> King Faisal Specialist Hospital & Research Centre

<120> A method for increasing protein expression in cells

<130> K30371PCT

<160> 36

<170> PatentIn version 3.5

<210> 1

<211> 175

<212> DNA

<213> Oryctolagus cuniculus

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ctgaccggtg ggagtctgcg gccgcagtct ttagaaaca gagtagtcgc ctgcttttct 120

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<213> Artificial Sequence

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<223> Reduced number of UU and/or UA dinucleotides

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caggtgctga cttctctccc cttctctttt ttcttttct caggttggtg tcg 173

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<223> Reduced number of UU and/or UA dinucleotides

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aggtgctgac tctctctccc cttctctctc ttcttcttct caggttggtg tcg 173

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<213> Simian virus 40

<400> 4

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ccaaac	126

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catcacaaat ctacaaaatc aagcatctgt cactgcatct agtgtggtct gtccaaac	118

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 <213> Bos taurus

<400> 6	
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ttcctaataa aatgaggaaa ttgcatcgca ttgtctgagt aggtgtcatt ctattctggg	180
gggtggggtg gggcagcaca gcaaggggga ggattgggaa gacaatagca ggcatgctgc	240
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ataaaatgag gaaatgcac gcattgtctga gtggtgtcat ctctatcctg ggggggtggg	180
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<210> 8
 <211> 717
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Enhanced green fluorescent protein

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<210> 9
 <211> 717
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reduced number of UU and/or UA dinucleotides

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 ggcaagctga ccctgaagtt catctgcacc accggcaagc tgcccgtgcc ctggcccacc 180
 ctggtgacca ccctgtgcta cggcgtgcag tgcttcagca gataccccga ccacatgaag 240
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 ggcacatcagg tcaacttcaa gaccgcgcac aacatcgagg acggcagcgt gcagctggcc 540
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 tacctgagca ccagagcgc cctgagcaag gaccccaacg agaagcggga ccacatggtg 660
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<210> 10
 <211> 684

<212> DNA

<213> *Montastrea cavernosa*

<400> 10

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gacctgaccg tgatcgaggg cgccccctg cccttcgctt atgacattct caccaccgtg      180
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aaagccaaga aggtggtgca gcttcccgac taccacttcg tggaccaccg catcgagatc      600
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<210> 11

<211> 809

<212> DNA

<213> Artificial Sequence

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<223> Reduced number of UU and/or UA dinucleotides

<400> 11

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gacctgaccg tgatcgaggg cgccccctg cccttcgctt acgacatcct gaccaccgtg      180
ttcgactacg gcaaccgtgt cttcgccaag taccccaagg acatccctga ctacttcaag      240
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gtgagccacg acaaggacta caacaaagtc aagctgtacg agcacgccga agcccacagc      660
ggactgcccc gccaggccgg ctgaagtctc acggcttccc acccgaggtc gaggagcagg      720
atgatggcac actgcccatg agctgtgctc aggagtctgg catggacaga caccctgctg      780

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809

<210> 12
 <211> 711
 <212> DNA
 <213> Clavularia species

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 gaccaccgca tcgagatcct gaaccacgac aaggactaca acaaggtgac cgtttacgag 660
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<210> 13
 <211> 712
 <212> DNA
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 <223> Reduced number of UU and/or UA dinucleotides

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 ttctcctacg acatcctgac caccgcgttc agctacggca acagggcctt caccaagtac 240
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gaccaccgca tcgagatcct gaaccacgac aaggactaca acaaggtgac cgtgtacgag 660
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<210> 14
 <211> 1368
 <212> DNA
 <213> Firefly

<400> 14
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 gcttttacag atgcacatat cgaggtggac atcacttacg ctgagtactt cgaaatgtcc 180
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<210> 15
 <211> 1650
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Reduced number of UU and/or UA dinucleotides

<400> 15

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<210> 16

<211> 1656
 <212> DNA
 <213> Firefly

<400> 16
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 aaggccaaga agggcgggcaa gatcgccgtg taataa 1656

<210> 17

<211> 1653
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Reduced number of UU and/or UA dinucleotides

<400> 17

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<210> 18
 <211> 697
 <212> DNA
 <213> Puntellina plumate

<400> 18
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 atgaccaaca agatgaagag caccaaaggc gccctgacct tcagccccta cctgctgagc 180
 cacgtgatgg gctacggctt ctaccacttc ggcacctacc ccagcggcta cgagaacccc 240
 ttcttgcacg ccatcaaaa cggcggctac accaacaccc gcatcgagaa gtacgaggac 300
 ggcggcgtgc tgcacgtgag cttcagctac cgctacgagg ccggccgcgt gatcggcgac 360
 ttcaaggtga tgggcaccgg cttccccgag gacagcgtga tcttcaccga caagatcatc 420
 cgcagcaacg ccaccgtgga gcacctgcac cccatgggcg ataacgatct ggatggcagc 480
 ttcacccgca ccttcagcct gcgcgacggc ggctactaca gctccgtggt ggacagccac 540
 atgcacttca agagcgccat ccaccccagc atcctgcaga acggggggccc catgttcgcc 600
 ttccgccgcg tggaggagga tcacagcaac accgagctgg gcatcgtgga gtaccagcac 660
 gccttcaaga ccccggtatg agatgccggt gaagaaa 697

<210> 19
 <211> 700
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reduced number of UU and/or UA dinucleotides

<400> 19
 atggagagcg acgagagcgg cctgcccgcc atggagatcg agtgccgcat caccggcacc 60
 ctgaacggcg tggagttcga gctggtgggc ggcggagagg gcacccccga gcagggccgc 120
 atgaccaaca agatgaagag caccaaaggc gccctgacct tcagccccta cctgctgagc 180
 cacgtgatgg gctacggctt ctaccacttc ggcacctacc ccagcggcta cgagaacccc 240
 ttcttgcacg ccatcaaaa cggcggctac accaacaccc gcatcgagaa gtacgaggac 300
 ggcggcgtgc tgcacgtgag cttcagctac cgctacgagg ccggccgcgt gatcggcgac 360
 ttcaaggtga tgggcaccgg cttccccgag gacagcgtga tcttcaccga caagatcatc 420
 cgcagcaacg ccaccgtgga gcacctgcac cccatgggcg acaacgacct ggatggcagc 480
 ttcacccgca ccttcagcct gcgcgacggc ggctactaca gctccgtggt ggacagccac 540
 atgcacttca agagcgccat ccaccccagc atcctgcaga acggggggccc catgttcgcc 600
 ttccgccgcg tggaggagga tcacagcaac accgagctgg gcatcgtgga gtaccagcac 660

gccttcaaga ccccgatgc agatgccggt gaagaactga 700

<210> 20
 <211> 698
 <212> DNA
 <213> Discosoma species

<400> 20
 atgagcgagc tgatcaagga gaacatgcac atgaagctgt acatggaggg caccgtgaac 60
 aaccaccact tcaagtgcac atccgagggc gaaggcaagc cctacgaggg caccagacc 120
 atgaagatca aggtggtcga gggcggccct ctccccttcg ccttcgacat cctggctacc 180
 agcttcatgt acggcagcaa agccttcac aaccacaccc agggcatccc cgacttcttt 240
 aagcagtcct tccctgaggg cttcacatgg gagagaatca ccacatacga agacgggggc 300
 gtgctgaccg ctaccagga caccagcttc cagaacggct gcatcatcta caacgtcaag 360
 atcaacgggg tgaacttccc atccaacggc cctgtgatgc agaagaaaac acgcggctgg 420
 gaggccaaca ccgagatgct gtaccccgct gacggcgggc tgagaggcca cagccagatg 480
 gccctgaagc tcgtgggagg gggctacctg cactgctcct tcaagaccac atacagatcc 540
 aagaaacccg ctaagaacct caagatgcc ggcttccact tcgtggacca cagactggaa 600
 agaatcaagg aggccgacaa agagacctac gtcgagcagc acgagatggc tgtggccaag 660
 tactgcgacc tccctagcaa actggggcac agagatga 698

<210> 21
 <211> 694
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reduced number of UU and/or UA dinucleotides

<400> 21
 atgagcgagc tgatcaagga gaacatgcac atgaagctgt acatggaggg caccgtgaac 60
 aaccaccact tcaagtgcac atccgagggc gaaggcaagc cctacgaggg caccagacc 120
 atgaagatca aggtggtcga gggcgggcca ctccccttcg ccttcgacat cctggccacc 180
 agcttcatgt acggcagcaa agccttcac aaccacaccc agggcatccc cgacttcttc 240
 aagcagtcct tccctgaggg cttcacatgg gagagaatca ccacatacga agacgggggc 300
 gtgctgaccg ccaccagga caccagcttc cagaacggct gcatcatcta caacgtcaag 360
 atcaacgggg tgaacttccc atccaacggc cctgtgatgc agaagaaaac acgcggctgg 420
 gaggccaaca ccgagatgct gtaccccgct gacggcgggc tgagaggcca cagccagatg 480
 gccctgaagc tcgtgggagg gggctacctg cactgctcct tcaagaccac atacagatcc 540
 aagaaacccg ccaagaacct caagatgcc ggcttccact tcgtggacca cagactggaa 600

agaatcaagg aggccgacaa agagacctac gtcgagcagc acgagatggc tgtggccaag 660
tactgcgacc tccaagcaa actggggcac agac 694

<210> 22
<211> 681
<212> DNA
<213> Hepatitis B virus

<400> 22
atggagaaca caacatcagg attcctagga cccctgctcg tgttacaggc ggggtttttc 60
ttgttgacaa gaatcctcac aataccacag agtctagact cgtggtggac ttctctcaat 120
tttctagggg gagcaccac gtgtcctggc ccaaattcgc agtccccaac ctccaatcac 180
tcaccaacct cttgtcctcc aatttgtcct ggctatcgct ggatgtgtct gcggcgtttt 240
atcatattcc tcttcctcct gctgctatgc ctcatcttct tgttggttct tctggactac 300
caagggtatgt tgcccgtttg tcctctactt ccaggaacat caactaccag cacgggacca 360
tgcaagacct gcacgattcc tgctcaagga acctctatgt ttccctcctg ttgctgtaca 420
aaaccttcgg acggaaactg cacttgtatt cccatcccat catcctgggc ttctgcaaga 480
ttcctatggg agtgggcctc agtccgtttc tcctggctca gtttactagt gccatttggt 540
cagtggttcg tagggctttc cccactgtt tggctttcag ttatatggat gatgtggtat 600
tggggggcaa gtctgtacaa catcttgagt ccctttttac ctctattacc aattttcttt 660
tgtctttggg tatacatttg a 681

<210> 23
<211> 681
<212> DNA
<213> Artificial Sequence

<220>
<223> Reduced number of UU and/or UA dinucleotides

<400> 23
atggagaaca ccaccagcgg cttcctgggc cctctgctgg tgctgcaggc cggctttctc 60
ctgctgaccc gcctcctgac catccccag agcctggaca gctggtggac cagcctgaac 120
ttcctgggcg gagccccaac ctgtcccggc cccaacagcc agagccccac cagcaaccac 180
agcccaacca gctgccacc catctgtccc ggctaccggt ggatgtgcct gcggcggttc 240
atcatcttcc tgttcctcct gctgctgtgc ctgatcttcc tcctggtgct cctggactac 300
cagggcatgc tgcccgtgtg tcctctgctg cctggcacca gcaccacctc caccggcccc 360
tgcaagacct gcacaatccc cgcccaggga accagcatgt tcccaagctg ctgctgcacc 420
aagcccagcg acggcaactg cacctgcac cccatcccaa gcagctgggc ctctgccaga 480
ttcctgtggg agtgggcctc cgtgagattc agctggctgt cactgctggt gcccttcgtg 540

cagtggttcg tgggcctgag cccaacagtg tggctgagcg tgatctggat gatgtggtac 600
 tggggacca gcctgtacaa catcctgagc cccttctgc ccctgctgcc catcttcttc 660
 tgcctgtggg tgtacatctg a 681

<210> 24
 <211> 681
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reduced number of UU and/or UA dinucleotides

<400> 24
 atggagaaca caacatcagg attcctcgga ccctgctcg tgctgcaggc ggggttcttc 60
 ctgctcacia gaatcctcac aatcccacag agtctggact cgtggtggac gtctctcaac 120
 ttctcgggg gagcaccac gtgtcctggc ccaaactgc agtcccaac ctccaatcac 180
 tcaccaacct cgtgtcctcc aatctgtcct ggctaccgct ggatgtgtct gcggcgcttc 240
 atcatcttcc tcttcatact gctgctgtgc ctcatcttcc tgctcgtcct cctggactac 300
 caagggatgc tgcccgctctg tctctgtctg ccaggaacat caaccaccag cacgggacca 360
 tgcaagacct gcacgatccc tgctcaagga accagcatgt tccctcctg ctgctgcaca 420
 aaaccatcgg acggaaactg cacctgcac cccatcccat catcctgggc ctctgcaaga 480
 ttctctggg agtgggcctc agtcgggttc tcttggtca gtctcctggg gccattcgtg 540
 cagtggttcg tcgggctgtc cccactgtg tggctgtcag tgatctggat gatgtggtac 600
 tgggggcaa gtctgtacaa catcctcagt cccttctgc ctctgctgcc aatcttcttc 660
 tgtctgtggg tgtacatctg a 681

<210> 25
 <211> 567
 <212> DNA
 <213> Homo sapiens

<400> 25
 atggccttga cttttgcttt actggtggcc ctctggtgc tcagctgcaa gtcaagctgc 60
 tctgtgggct gtgatctgcc tcaaaccac agcctgggta gcaggaggac cttgatgctc 120
 ctggcacaga tgaggagaat ctctcttttc tctgcttga aggacagaca tgactttgga 180
 tttccccagg aggagtttgg caaccagttc caaaaggctg aaaccatccc tgtcctccat 240
 gagatgatcc agcagatctt caatctcttc agcacaaagg actcatctgc tgcttgggat 300
 gagaccctcc tagacaaatt ctacactgaa ctctaccagc agctgaatga cctggaagcc 360
 tgtgtgatac aggggggtggg ggtgacagag actccctga tgaaggagga ctccattctg 420
 gctgtgagga aatacttcca aagaatcact ctctatctga aagagaagaa atacagccct 480

tgtgcctggg aggttgtcag agcagaaatc atgagatctt tttctttgtc aacaaacttg 540
caagaaagtt taagaagtaa ggaatga 567

<210> 26
<211> 567
<212> DNA
<213> Artificial Sequence

<220>
<223> Reduced number of UU and/or UA dinucleotides

<400> 26
atggccctga ccttcgccct gctggtggct ctgctggtgc tgagctgcaa gagcagctgc 60
agcgtgggct gcgatctgcc tcagaccac agcctgggca gcagacggac actgatgctg 120
ctggcccaga tgcggcggat cagcctgttc agctgcctga aggaccggca cgacttcggc 180
ttccccagg aagagttcgg caaccagtgc cagaaggccg agacaatccc cgtgctgcac 240
gagatgatcc agcagatctt caacctgttc agcaccaagg acagcagcgc cgcctgggac 300
gagacactgc tggacaagtt ctacaccgag ctgtaccagc agctgaacga cctggaagcc 360
tgcgtgatcc agggcgtggg cgtgaccgag acacccctga tgaaggaaga cagcatcctg 420
gccgtgcgga agtacttcca gcggatcacc ctgtacctga aagagaagaa gtacagcccc 480
tgcgcctggg aagtggctccg ggccgagatc atgcggagct tcagcctgag caccaacctg 540
caggaaagcc tgcggagcaa agagtga 567

<210> 27
<211> 612
<212> DNA
<213> Homo sapiens

<400> 27
atggctggac ctgccacca gagcccatg aagctgatgg ccctgcagct gctgctgtgg 60
cacagtgcac tctggacagt gcaggaagcc acccccctgg gccctgccag ctccctgccc 120
cagagcttcc tgctcaagtg cttagagcaa gtgaggaaga tccaggggcga tggcgcagcg 180
ctccaggaga agctgtgtgc cacctacaag ctgtgccacc ccgaggagct ggtgctgctc 240
ggacactctc tgggcatccc ctgggctccc ctgagcagct gcccagcca ggccctgcag 300
ctggcaggct gcttgagcca actccatagc ggccctttcc tctaccaggg gctcctgcag 360
gccctggaag ggatctcccc cgagttgggt cccaccttgg acacactgca gctggacgtc 420
gccgactttg ccaccaccat ctggcagcag atggaagaac tgggaatggc ccctgccctg 480
cagcccaccc aggggtgcat gccggccttc gcctctgctt tccagcgccg ggcaggaggg 540
gtcctagttg cctcccatct gcagagcttc ctggaggtgt cgtaccgcgt tctacgccac 600
cttgcccagc cc 612

<210> 28
 <211> 612
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reduced number of UU and/or UA dinucleotides

<400> 28
 atggctggac ctgccaccca gagcccatg aagctgatgg ccctgcagct gctgctgtgg 60
 cacagtgcac tctggacagt gcaggaagcc accccctgg gccctgccag ctccctgccc 120
 cagagcttcc tgctcaagtg cctggagcaa gtgaggaaga tccagggcga tggcgcagcg 180
 ctccaggaga agctgtgtgc cacctacaag ctgtgccacc ccgaggagct ggtgctgctc 240
 ggacactctc tgggcatccc ctgggctccc ctgagcagct gcccagcca ggccctgcag 300
 ctggcaggct gcctgagcca actccacagc ggctcttcc tctaccagg gctcctgcag 360
 gccctggaag ggatctcccc cgagctgggt cccaccctgg acacactgca gctggacgtc 420
 gccgacttcg ccaccacat ctggcagcag atggaagaac tgggaatggc ccctgccctg 480
 cagcccaccc aggggtgcat gccggccttc gcctctgcct tccagcgccg ggcaggaggg 540
 gtcttggtgg cctcccatct gcagagcttc ctggaggtgt cgtaccgct gctccgccac 600
 ctgcccagc cc 612

<210> 29
 <211> 123
 <212> DNA
 <213> Mus musculus

<400> 29
 cagagccatg gcttcccgcc ggaggtggag gagcaggatg atggcacgct gccatgtct 60
 tgtgcccagg agagcgggat ggaccgtcac cctgcagcct gtgcttctgc taggatcaat 120
 gtg 123

<210> 30
 <211> 125
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reduced number of UU and/or UA dinucleotides

<400> 30
 agtctcacgg ctccccaccc gaggtcgagg agcaggatga tggcacactg cccatgagct 60
 gtgctcagga gtctggcatg gacagacacc ccgctgcctg tgccagtgcc aggatcaatg 120
 tgtga 125

<210> 31
 <211> 806
 <212> DNA
 <213> Artificial Sequence

<220>

<223> MODC destabilised and UU/UA reduced sequence of *Montastrea cavernosa* GFP (green fluorescent protein)

<400> 31
 atgggctgta tcaagcccga catgaagatc aagctgcgga tggagggcgc cgtgaacggc 60
 cacaaattcg tgatcgaggg cgacgggaaa ggcaagccct tcgagggcaa gcagacgatg 120
 gacctgaccg tgatcgaggg cgccccctg cccttcgcct acgacatcct gaccaccgtg 180
 ttcgactacg gcaaccgtgt cttcgccaag taccccaagg acatccctga ctacttcaag 240
 cagaccttcc ccgaggggcta ctctgtggag cgaagcatga catacgagga ccagggaatc 300
 tgcctcgcga caaacgacat caccatgatg aaggggtgtg acgactgctt cgtgtacaaa 360
 atccgcttcg acgggggtcaa cttccctgcc aatggcccgg tgatgcagcg caagaccctg 420
 aagtgggagc ccagcaccga gaagatgtac gtgcgggacg gcgtcctgaa gggcgatgtg 480
 aacatggcac tgctcctgga gggagggcgc cactacegct gcgacttcaa gaccacctac 540
 aaagccaaga aggtggtgca gctgcccga caccacttcg tggaccaccg catcgagatc 600
 gtgagccacg acaaggacta caacaaagtc aagctgtacg agcacgccga agcccacagc 660
 ggactgcccc gccaggccgg cagtctcacg gcttcccacc cgaggtcgag gagcaggatg 720
 atggcacact gcccatgagc tgtgctcagg agtctggcat ggacagacac cccgctgcct 780
 gtgccagtgc caggatcaat gtgtga 806

<210> 32
 <211> 834
 <212> DNA
 <213> Artificial Sequence

<220>

<223> MODC destabilised and UU/UA reduced sequence of *Clavularia* species GFP

<400> 32
 atggtgagca agggcgagga gaccacaatg ggcgtgatca agcccgacat gaagatcaag 60
 ctgaagatgg agggcaacgt gaatggccac gccttcgtga tcgagggcga gggcgagggc 120
 aagccctacg acggcaccaa caccatcaac ctggaggtga aggagggagc cccctgccc 180
 ttctcctacg acatcctgac caccgcgttc agctacggca acagggcctt caccaagtac 240
 cccgacgaca tcccctaacta cttcaagcag tccttccccg agggctacag ctgggagcgc 300
 accatgacct tcgaggacaa gggcatcgtg aaggtgaagt ccgacatctc catggaggag 360
 gactccttca tctacgagat ccacctcaag ggcgagaact tccccccaa cggccccgtg 420

atgcagaagg agaccaccgg ctgggacgcc tccaccgaga ggatgtacgt gcgcgacggc 480
 gtgctgaagg gcgacgtcaa gatgaagctg ctgctggagg gcggcgggcca ccaccgcgtg 540
 gacttcaaga ccatctacag ggccaagaag gcggtgaagc tgcccgacta tcacttcgtg 600
 gaccaccgca tcgagatcct gaaccacgac aaggactaca acaaggtgac cgtgtacgag 660
 atcgccgtgg cccgcaactc caccgacggc atggacgagc tgtacaagca gtctcacggc 720
 ttcccacccg aggtcgagga gcaggatgat ggcacactgc ccatgagctg tgctcaggag 780
 tctggcatgg acagacaccc cgctgcctgt gccagtgcc ggatcaatgt gtga 834

<210> 33

<211> 1775

<212> DNA

<213> Artificial Sequence

<220>

<223> MODC destabilised and UU/UA reduced sequence of firefly luciferase

<400> 33

atggaagacg ccaaaaacat caagaaaggc cgggcgccat totaccgct ggaagatgga 60
 accgctggag agcaactgca caaggccatg aagagatacg ccttggtgcc tggaacaatc 120
 gcgttcacag atgcacacat cgagggtggac atcacctacg ctgagtactt cgaaatgtcc 180
 gtccggctgg cagaagccat gaaacgatac gggctgaaca caaatcacag aatcgctcgtg 240
 tgcagtgaag actctctgca attcttcatg ccggtgctgg gcgcgctggt catcgagtg 300
 gcagtcgcgc ccgcgaacga catctacaat gaacgtgaac tcctcaacag catgggcatc 360
 tcgcagccca ccgtggtggt cgtgtccaaa aaggggctgc aaaaaatcct gaacgtgcaa 420
 aaaaagctcc caatcatcca aaaaatcatc atcatggaca gcaaaacgga ctaccaggga 480
 ttccagtcga tgtacacgtt cgtcacatct catctgcctc ccggcttcaa tgaatacgac 540
 ttcgtgccag agtccttcga cagggacaag acaatcgac tgatcatgaa ctctctgga 600
 agcactggtc tgcccaaagg tctcgtctcg cctcacagaa ctgcctgcgt gagattctcg 660
 catgccagag atcccatctt cggcaatcaa atcatccgg aactgcgat cctgagtggtg 720
 gtccatttcc atcacggctt cggaatgttc acgacactcg gatacctgat ctgtggattc 780
 cgagtcgtcc tgatgtacag attcgaagaa gagctgttcc tgaggagcct ccaggactac 840
 aagatccaaa gtgcgctgct ggtgccaaac ctgttctcct tcttcgcaa aagcactctg 900
 atcgacaaat acgatctcag caatctgcac gaaatcgct ctggtggcgc tcccctctcc 960
 aaggaagtcg gggaagcggc cgccaagagg ttccatctgc cagggatcag gcaaggatac 1020
 gggctcactg agacgacatc agccatcctg atcacaccg agggggatga caaacggggc 1080
 gcggtcggga aagtgggtccc attcttcgaa gcgaagggtg tggatctgga caccgggaaa 1140

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acgctgggcg ttaatcaaag aggcgaactg tgtgtgagag gtcccatgat catgtccggc 1200
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ggagacatcg cgtactggga cgaagacgaa cacttcttca tcgtggaccg cctgaagtct 1320
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caccccaaca tcttcgacgc aggtgtcgca ggtctgcccg acgatgacgc cggatgaactg 1440
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tacgtcgcca gtcaagtaac aaccgcgaaa aagctgcgcg gaggagtgtg gttcgtggac 1560
gaagtgccga aaggtctgac cggaaaactc gacgcaagaa aaatcagaga gatcctcatc 1620
aaggccaaga agggcggaag gatcgccgtg agtctcacgg cttcccaccc gaggtcgagg 1680
agcaggatga tggcacactg cccatgagct gtgctcagga gtctggcatg gacagacacc 1740
ccgctgcctg tgccagtgcc aggatcaatg tgtga 1775

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<210> 34
<211> 1775
<212> DNA
<213> Artificial Sequence

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<220>
<223> MODC destabilised and UU/UA reduced sequence of firefly
        luciferase

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<400> 34
atggaagatg ccaaaaacat caagaagggc ccagcgccat tctaccact cgaagacggg 60
accgcaggcg agcagctgca caaagccatg aagcgctacg ccctggtgcc cggcaccatc 120
gccttcaccg acgcacacat cgaggtggac atcacctacg ccgagtactt cgagatgagc 180
gtgcggtctg cagaagccat gaagcgctac gggctgaaca caaaccatcg gatcgtggtg 240
tgcagcgaga acagcctgca gttcttcatg cccgtgctgg gtgccctgtt catcggtgtg 300
gctgtggccc cagccaacga catctacaac gagcgcgagc tgctgaacag catgggcatc 360
agccagccca ccgtcgtggt cgtgagcaag aaagggtgcg aaaagatcct caacgtgcaa 420
aagaagctgc cgatcatcca aaagatcatc atcatggaca gcaagaccga ctaccagggc 480
ttccaaagca tgtacacctt cgtgacctcc cacctgccac ccggcttcaa cgagtacgac 540
ttcgtgcccg agagcttcga ccgggacaaa accatcgccc tgatcatgaa cagcagtggc 600
agcacgggac tgcccaaggg cgtggcactg ccgcaccgca ccgcctgtgt ccgattcagt 660
catgcacgcg acccatctt cggcaaccag atcatccccg acaccgcat cctcagcgtg 720
gtgccattcc accacggctt cggcatgttc accacgctgg gctactggat ctgcggcttc 780
cgggtcgtgc tcatgtaccg cttcgaggag gagctgttcc tgccgcgcct gcaagactac 840
aagatccaat ctgccctgct ggtgccca ca ctgttcagct tcttcgcaa gagcactctc 900

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atcgacaagt acgacctgag caacctgcac gagatcgcca gcggcggagc gccgctcagc      960
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ggcctgacag aaacaaccag cgccattctg atcacccccg aaggggacga caagcctggc      1080
gcagtgggca aggtggtgcc cttcttcgag gccaaaggtg tggacctgga caccggcaag      1140
aactggtgtg tgaaccagcg cggcgagctg tgcgtccgtg gccccatgat catgagcggc      1200
tacgtgaaca accccgaggc cacaacgct ctcatcgaca aggacggctg gctgcacagc      1260
ggcgacatcg cctactggga cgaggacgag cacttcttca tcgtggaccg gctgaagagc      1320
ctgatcaaat acaagggcta ccaggtggcc ccagccgaac tggagagcat cctgctgcaa      1380
caccccaaca tcttcgacgc cggagtcgcc ggactgccag acgacgatgc cggcgagctg      1440
cccgacgagc tcgtcgtgct ggaacacggc aaaaccatga ccgagaagga gatcgtggac      1500
tacgtggcca gccaggtgac aaccgccaag aagctgcgcg gtggtgtggt gttcgtggac      1560
gaggtgcccc aaggactgac cggcaagctg gacgcccga agatccgcga gatcctcatc      1620
aaggccaaga agggcggcaa gatcgccgtg agtctcacgg cttcccaccc gaggtcgagg      1680
agcaggatga tggcactg cccatgagct gtgctcagga gtctggcatg gacagacacc      1740
ccgctgcctg tgccagtgcc aggatcaatg tgtga                                  1775

```

```

<210> 35
<211> 822
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> MODC destabilised and UU/UA reduced sequence of Puntellina
       plumate GFP

```

```

<400> 35
atggagagcg acgagagcgg cctgcccgcc atggagatcg agtgccgcat caccggcacc      60
ctgaacggcg tggagttcga gctggtgggc ggcggagagg gcacccaccga gcaggggccg      120
atgaccaaca agatgaagag caccaaaggc gccctgacct tcagccccta cctgctgagc      180
cacgtgatgg gctacggctt ctaccacttc ggcacctacc ccagcggcta cgagaacccc      240
ttcctgcacg ccatcaacaa cggcgggtac accaacaccc gcatcgagaa gtacgaggac      300
ggcggcgtgc tgcacgtgag cttcagctac cgctacgagg ccggccgcgt gatcggcgac      360
ttcaaggtga tgggcaccgg cttccccgag gacagcgtga tcttcaccga caagatcatc      420
cgcagcaacg ccaccgtgga gcacctgcac cccatgggcg acaacgacct ggatggcagc      480
ttcaccgcga ccttcagcct gcgcgacggc ggctactaca gctccgtggt ggacagccac      540
atgcacttca agagcgccat ccaccccagc atcctgcaga acggggggccc catgttcgcc      600
ttccgccgcg tggaggagga tcacagcaac accgagctgg gcacgtgga gtaccagcac      660

```

gccttcaaga ccccggatgc agatgccggt gaagaacagt ctcacggctt cccacccgag 720
gtcaggagc aggatgatgg cacactgccc atgagctgtg ctcaggagtc tggcatggac 780
agacaccccg ctgcctgtgc cagtgccagg atcaatgtgt ga 822

<210> 36
<211> 819
<212> DNA
<213> Artificial Sequence

<220>
<223> MODC destabilised and UU/UA reduced sequence of Discosoma RFP
(red fluorescent protein)

<400> 36
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aaccaccact tcaagtgcac atccgagggc gaaggcaagc cctacgaggg caccagacc 120
atgaagatca aggtggctga gggcgggcca ctccccttcg ccttcgacat cctggccacc 180
agcttcatgt acggcagcaa agccttcac aaccacaccc agggcatccc cgacttcttc 240
aagcagtcct tccctgaggg cttcacatgg gagagaatca ccacatacga agacgggggc 300
gtgctgaccg ccacccagga caccagcttc cagaacggct gcatcatcta caacgtcaag 360
atcaacgggg tgaacttccc atccaacggc cctgtgatgc agaagaaaac acgcggctgg 420
gaggccaaca ccgagatgct gtaccccgct gacggcgggc tgagaggcca cagccagatg 480
gccctgaagc tcgtggggcg gggctacctg cactgctcct tcaagaccac atacagatcc 540
aagaaacccg ccaagaacct caagatgcc ggcttccact tcgtggacca cagactggaa 600
agaatcaagg aggccgacaa agagacctac gtcgagcagc acgagatggc tgtggccaag 660
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gaggagcagg atgatggcac actgcccatt agctgtgctc aggagtctgg catggacaga 780
caccgccgtg cctgtgccag tgccaggatc aatgtgtga 819