

Page 1
SEQUENCE LISTING

<110> Nikolaos MELLIOS
Madhukar H. TRIVEDI

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RESPONSE TO ANTIDEPRESSANT TREATMENT

<130> 2021-042-02 (1863.270W01)

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<151> 2021-02-26

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 <211> 342
 <212> DNA

<213> Homo Sapiens

<400> 26

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aggaaacaaa gaaaggggaa cggtttcaaa cattgccaaag agaaccagta agtatcccct	180
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agacggccaa gcattgagca ttactgagga tgagaaagta gagacagaac aagcagtcac	300
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<210> 27

<211> 190

<212> DNA

<213> Homo Sapiens

<400> 27

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<210> 28

<211> 466

<212> DNA

<213> Homo Sapiens

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<210> 29
 <211> 889
 <212> DNA
 <213> Homo Sapiens

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<210> 30
 <211> 532
 <212> DNA
 <213> Homo Sapiens

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<210> 31
 <211> 512
 <212> DNA
 <213> Homo Sapiens

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<210> 32
 <211> 340
 <212> DNA
 <213> Homo Sapiens

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<210> 33
 <211> 192
 <212> DNA
 <213> Homo Sapiens

<400> 33
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 caacgccatt atgggcagtg ggattttggg actcgccttt gccctggcaa aactggaat 180
 cctacttttt ct 192

<210> 34
 <211> 309
 <212> DNA
 <213> Homo Sapiens

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<210> 35
 <211> 330
 <212> DNA
 <213> Homo Sapiens

<400> 35
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<210> 36
 <211> 266
 <212> DNA
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<400> 36
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<210> 37
 <211> 1227
 <212> DNA
 <213> Homo Sapiens

<400> 37
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<210> 38

<211> 20725

<212> DNA

<213> Homo Sapiens

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 <212> DNA
 <213> Homo Sapiens

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<211> 570

<212> DNA

<213> Homo Sapiens

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<210> 41

<211> 1151

<212> DNA

<213> Homo Sapiens

<400> 41

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 <211> 531
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 <211> 278
 <212> DNA
 <213> Homo Sapiens

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<213> Homo Sapiens

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<210> 45

<211> 158

<212> DNA

<213> Homo Sapiens

<400> 45

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<210> 46

<211> 1114

<212> DNA

<213> Homo Sapiens

<400> 46

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 <211> 672
 <212> DNA
 <213> Homo Sapiens

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 <211> 294
 <212> DNA
 <213> Homo Sapiens

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<210> 50
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 <212> DNA
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<212> DNA
<213> Homo Sapiens

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 <211> 518
 <212> DNA
 <213> Homo Sapiens

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 <212> DNA
 <213> Homo Sapiens

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<211> 1953
<212> DNA
<213> Homo Sapiens

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 <211> 251
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<210> 57
 <211> 339
 <212> DNA
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<400> 57

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<210> 58

<211> 753

<212> DNA

<213> Homo Sapiens

<400> 58

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<211> 491

<212> DNA

<213> Homo Sapiens

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 <213> Homo Sapiens

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<211> 138

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<213> Homo Sapiens

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<213> Homo Sapiens

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<211> 351
<212> DNA
<213> Homo Sapiens

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 <213> Homo Sapiens

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<213> Homo Sapiens

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<213> Homo Sapiens

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 <212> DNA
 <213> Homo Sapiens

<400> 89

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<211> 478

<212> DNA

<213> Homo Sapiens

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<210> 91

<211> 328

<212> DNA

<213> Homo Sapiens

<400> 91

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<210> 92
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<400> 92
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 <213> Homo Sapiens

<400> 93

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<211> 1500

<212> DNA

<213> Homo Sapiens

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<211> 399

<212> DNA

<213> Homo Sapiens

<400> 96

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<212> DNA

<213> Homo Sapiens

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<211> 236

<212> DNA

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gcttgacaac tctggtggca acaagtgta acagtgtaac aggcattcgc atcgaggatc	180
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 <211> 136
 <212> DNA
 <213> Homo Sapiens

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<211> 322
<212> DNA
<213> Homo Sapiens

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<211> 252
<212> DNA
<213> Homo Sapiens

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<212> DNA

<213> Homo Sapiens

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<210> 119

<211> 190

<212> DNA

<213> Homo Sapiens

<400> 119

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<211> 743

<212> DNA

<213> Homo Sapiens

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 <211> 287
 <212> DNA
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cctctgaaaa catgactcag aatacgttgg ctgtcactga catatgtatt attataccca	600
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ggagcagatg tttagggaca ttgcaattat tgtggcagac aaatgtgtga ctctgaaac	180
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gaaaaccaac aggagtacaa aacagcag	268

<210> 136
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 <212> DNA
 <213> Homo Sapiens

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gacacctgtg tcgcccctgt cataatcgtg agaaagccag aggccttggg aaatacatct	180

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 atccagacca tttcaactgc gccaaactgcg g 271

<210> 137
 <211> 474
 <212> DNA
 <213> Homo Sapiens

<400> 137
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 ttgaccttct atacagccat cttgggtcct tataatgtct cttcaaaac caggcagaat 180
 aatgtggcct ggctggttgt tgatagcatc gtggatgtta tctttttggt ggacattgtg 240
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 gatgtcatca acgcttttga gaacgtggat gaggttagtg cttttatggg tgatccaggg 420
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<210> 138
 <211> 325
 <212> DNA
 <213> Homo Sapiens

<400> 138
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 caaggtgaca gtgaagatga tcaggcaggc tctggggagg ccaacttcca aagctcccaa 180
 gacactgact tgggggaaac atcatctgtg gctcacgctc ttgtgccagc accccaggag 240
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 <211> 3139
 <212> DNA
 <213> Homo Sapiens

<400> 139

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gttcctggac tccctggcat ctgctggaga gaagagtgat cagtctgctt ctgcacctat	600
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gtggagggtg aagtgtattg ccattggcaa ccctgttcac ctaaaatgta acgcctgtga	3060
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 <211> 383
 <212> DNA
 <213> Homo Sapiens

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 aaccagccct caccaggctc cacactgtct tccagtaggt ctgtggaact gaatggattc 180
 atggccttca gggaacagta catgggaatg tctgtgcctc cacattacca atatataccg 240
 caccttttta gctattctgg ccactcacca cttctgcccc aacaagctcg cagcctggat 300
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 acgcccattg tgattgaaga tgg 383

<210> 141
 <211> 491
 <212> DNA
 <213> Homo Sapiens

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<210> 142
 <211> 339
 <212> DNA
 <213> Homo Sapiens

<400> 142

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gaaggaccga gagaaacggg aggaaatgac agatgaccga gcctggtacc tcatcgcgtg	180
ggaaaacagc tccgtccctg ttgccttttc tcacttccgg tttgacgtgg agtgtgggga	240
tgaagtcctg tactgctatg aagtgcagtt ggaaagcaag gtgcggcgga aaggcctggg	300
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<210> 143

<211> 1548

<212> DNA

<213> Homo Sapiens

<400> 143

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tgtgaagagt aaaccaacag acaccaggat tattcaccat aggccagcct tctagctccc	120
aagatgttcc ctccctgccg gtcttcattg tctctcagta ttgagatgtc agcctccttt	180
ccatattacc tggaataatt gccaaagcagt catgccactt gaaaatgagg taacaagtcc	240
tttgattgaa ctggcagtcc cactccctgt catagcatcc ttgtatcagt gttgtttatt	300
catttcatgg tctgtttctc caagaaataa gcatcaggag tggacagtga tgtttggggg	360
gatcccaagg cacatggggag gcagatctta cctctttctg aggaggccac agagagctgg	420
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ctggaagctt aatgcaggga atgtgaactt tgaactagtt agagattatt cactgtgagg	540
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gtgctgtggc ccaatcctgt gcgtgtctcc tcttcaggct cctgccggag catgcttctc	660
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gtacactttg taatacttgg gaccaagaat ttgaagatag taatcagaca aatcaaacaa	780
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gctctattgg aggtgagtat ggaaaacaag cttagctttt tttttgaag tttccttcca	960
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 ctaaggtgag agtttgaaga ctatggactt ttaagctgag aggctgctgt ggtcatacag 1500
 ttttcaacac aaaacttgtt ctccctctag tgttccactt gcacaggg 1548

<210> 144
 <211> 269
 <212> DNA
 <213> Homo Sapiens

<400> 144
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 caccgcatct ctgaagtgtt tgactgttgg tttgagagtg gcagcatgcc ctatgctcag 180
 gttcattacc cgtttgaaaa caagagggag tttgaggatg cttttcctgc agatttcatt 240
 gccgagggca tcgaccaaac cagaggatg 269

<210> 145
 <211> 238
 <212> DNA
 <213> Homo Sapiens

<400> 145
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 atcgggggtgc tggccttcct ggcctcggcc ttcttcttgg tggtcgacgc gtatttcccc 180
 cagatcagca acgccactga ccgcaagtac ctggtcattg gtgacctgct cttctcag 238

<210> 146

<211> 362
 <212> DNA
 <213> Homo Sapiens

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 ccatcatggg ccagttcgag caccccaata tcatccgcct ggagggcgtg gtcaccaaca 300
 gcatgcccgt catgattctc acagagttca tggagaacgg cgccctggac tccttcctgc 360
 gg 362

<210> 147
 <211> 148
 <212> DNA
 <213> Homo Sapiens

<400> 147
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 gccggctcga atctctggct cctggcttag agcagttgct cttaaagggg aacgggccac 120
 ccccggtgc tccagtgggc taggctgg 148

<210> 148
 <211> 264
 <212> DNA
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<400> 148
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 tgtccactat ccgacagtat ccag 264

<210> 149
 <211> 1521
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<213> Homo Sapiens

<400> 149

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 <211> 153
 <212> DNA
 <213> Homo Sapiens

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 atgggagctt tgaatgctac tgtatggatg gatacttgcc aaggaatgga cctgaacctt 120
 tccacccgac caccgatgcc acatcatgca cag 153

<210> 151
 <211> 293
 <212> DNA
 <213> Homo Sapiens

<400> 151
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 attctaagtc catcatcacg tgtcgggtgt cccttctgga tgggtactgat gttagtgtgg 180
 acttgccaaa aaaagccaaa ggacaagagt tgtttgcata gattatgtac cacctggacc 240
 tgattgaaag cgactatattt ggtctgagat ttatggattc agcacaagta gca 293

<210> 152
 <211> 309
 <212> DNA
 <213> Homo Sapiens

<400> 152
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 tcctggccac gggaagctat gatgaacaca tcctactgtg ggacacacga aacatgaagc 180
 agccgttggc agatacgctt gtgcagggtg gggatatggag aatcaagtgg caccctttcc 240
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 aggcaatgg 309

<210> 153

<211> 440
 <212> DNA
 <213> Homo Sapiens

<400> 153
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 tgccggagag gagctggagc tgtccaagtc cctgaacgag ctgaggataa aggagctcta 420
 cgcgtgggac aacagaagag 440

<210> 154
 <211> 251
 <212> DNA
 <213> Homo Sapiens

<400> 154
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 ctggctctaa g 251

<210> 155
 <211> 654
 <212> DNA
 <213> Homo Sapiens

<400> 155
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 tgcggcagaa gatagccatc acgcataaaa acaagatcaa caggtagga gattgatcc 180
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 ttcatagaat caggatagaa aacatgaatc gggaaaggct gagacaaaag agaattcatt 360
 ctgctgtaaa gacaagcagg agggctcgaca tggactgaaa tcaccctctg cagctgggag 420
 ggctcttctg ggcgtccggg cagctgcagc tgagaggact ttcacaccat aaggagattt 480
 ctgtttttct ttttggctgt taatgcttgt ctataacatt ggagccatca caagaatgtt 540
 catttggaat gaaggctgca ggcaactggt gcagacgtct ttataggcag tcaccatgtt 600
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<210> 156
 <211> 1911
 <212> DNA
 <213> Homo Sapiens

<400> 156
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 tggccgtcgc cgagcctgcc gtctacttca aggagcagtt tctggacgga gacgggtgga 180
 cttcccgtg gatcgaatcc aaacacaagt cagattttgg caaattcggt ctgagttccg 240
 gcaagttcta cggtgacgag gagaaagata aaggtttgca gacaagccag gatgcacgct 300
 tttatgctct gtcggccagt ttcgagcctt tcagcaacaa aggccagacg ctggtggtgc 360
 agttcacggg gaaacatgag cagaacatcg actgtggggg cggctatgtg aagctgtttc 420
 ctaatagttt ggaccagaca gacatgcacg gagactcaga atacaacatc atgtttggtc 480
 ccgacatctg tggccctggc accaagaagg ttcatgtcat cttcaactac aagggaaga 540
 acgtgctgat caacaaggac atccgttgca aggatgatga gtttacacac ctgtacacac 600
 tgattgtgcg gccagacaac acctatgagg tgaagattga caacagccag gtggagtccg 660
 gtccttgga agacgattgg gacttcctgc cacccaagaa gataaaggat cctgatgctt 720
 caaaaccgga agactgggat gagcgggcca agatcgatga tcccacagac tccaagcctg 780
 aggactggga caagcccag catatccctg accctgatgc taagaagccc gaggactggg 840
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gatttcatct gctctccttc ctggagccca gaggagggca gcagaagggg gtggtgtctc	1740
caacccccca gcactgagga agaacggggc tcttctcatt tcacccctcc ctttctcccc	1800
tgcccccagg actgggccac ttctgggtgg ggcagtgggt cccagattgg ctcacactga	1860
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<210> 157
 <211> 259
 <212> DNA
 <213> Homo Sapiens

<400> 157	
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gagaggcact cgtgtgacgc gctgaatcgc tggctgggag aacagctgaa gcagctgggtg	180
cctgcaagcg gcctcacagt catggatctg gaagctgagg gcacgtgttt gcggttcagc	240
cctttgatga ccgcagcag	259

<210> 158
 <211> 179
 <212> DNA

<213> Homo Sapiens

<400> 158

gttgtgcacc atctccaggt gcttatgatg ttaaaacttt agaagtattg aaaggaccag 60

tatcctttca gaaatcacia agatttaaag agcaaaaaga atctaaacaa aatcttaatg 120

ttgacaaaaga tactaccttg cctgcttcag ctagaaaagt taagtcttcg gaatcaaag 179

<210> 159

<211> 169

<212> DNA

<213> Homo Sapiens

<400> 159

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tgagtgtgag tgtgtgttgt gcgcgcagga gccagtgcgt cgggagcagc ggctcgggca 120

gctgctcctg cccgcaccct cccctggagc ccggggagga caaggcgag 169

<210> 160

<211> 117

<212> DNA

<213> Homo Sapiens

<400> 160

atcctgcccg gcctgtacat cggcaacttc aaagatgcca gagacgcgga acaattgagc 60

aagaacaagg tgacacatat tctgtctgtc cacgatagtg ccaggcctat gttggag 117

<210> 161

<211> 104

<212> DNA

<213> Homo Sapiens

<400> 161

gatgaatttt tagatgtgat ctactggttc cgacagatca ttgctgtggt cctgggtgtc 60

atttggggag ttttgccatt acgagggttc ttgggaatag cagg 104

<210> 162

<211> 2681

<212> DNA

<213> Homo Sapiens

<400> 162

aggaccctgg ccacgaatca tttgcatct cctctaccaa agactcaaaa tgtatggccc 60

tggtagtcag ctgggaaagt ctggcaataa cagctgggct aaggaacgtg gatgctcaat	120
tgcctgccaa gggctcttta cttcagcccc gctacatgcc ccagcattg gagagaggcc	180
actttcacac atgcgttgga agggtaagag actctggcaa aaataaattc gtctctctgc	240
atttagcagt gggctcaggg ccatgaggaa gggaattaga ggaaaggaat tagcaacagc	300
ccaccatgtg tctcgtctgg catgagtgga caggtgttag ctctcctctg tatatgagga	360
tctgattttc agctgagttg tcgatgttga accatgttcc atttccactt agatttttat	420
ccaggctcct tctatctaac caacatgaac agaatgtcct gcagtagcac ataggaaaat	480
tacattgggt gcagtctagg aaatcttaat cagggagggc ctggtgatct gaaagcacia	540
agctttcagt gtctatcaga tgatttagtc gaatttgag tctgaaatga cacataagac	600
agcctaggaa cctagctctg tgtcacctcc cctccccctc agagtccctg gtttactagg	660
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taaagctttc agtttggtgc ataattctaa cataattctc actcttcctt tgcagacacg	1680

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gtcaatccca	gatttgttgc	cataatcata	gaggcaagt	ggggaggagc	gttccttgtc	1860
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ggaccagtgc	tggacataga	ctggtgcccc	cataacgata	aggtcattgc	cagcggttca	1980
gaggactgca	cggatcatgg	atggcagatc	ccagaaaatg	gactcacctt	ttccctgact	2040
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acggcccgca	atgtgcttct	tagtgcaggc	tgtgataatg	ccattatcat	ctggaatgtg	2160
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gagatggaca	ctagcaatgg	ggtgttgctg	cctttctatg	accctgacac	cagcatcatt	2520
tacttatgtg	gaaaggtga	cagcagtatt	cgctattttg	agatcacgga	tgaatccccg	2580
tacgtccact	acctcaacac	attcagcagc	aaggagcctc	agagagggat	gggttacatg	2640
ccaagagggg	gacttgatgt	taacaaatgt	gagattgcc	g		2681

<210> 163
 <211> 372
 <212> DNA
 <213> Homo Sapiens

<400> 163	
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ttacctacaa	tgaatggaga
gtcagtagac	ccagtggggc
	60
agccagcact	gaaaactgag
gagcgcaagg	ctaagcctgc
tccttcaaaa	acccaggcca
	120
gacctgttgg	agtcaaaatc
cccacttgta	agatcactct
taaggaaacc	ttcctgacgt
	180
caccagagga	gctctataga
gtgtttacca	ccaagagct
ggtgcaggcc	tttaccatg
	240
ctcctgcaac	attagaagca
gacagaggtg	gaaagttcca
catggtagat	ggcaacgtct
	300
ctggggaatt	tactgatctg
gtccctgaga	aacatattgt
gatgaagtgg	aggtttaaat
	360

cttggccaga gg 372

<210> 164
 <211> 340
 <212> DNA
 <213> Homo Sapiens

<400> 164
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 gatagaagag aaaggtgcag tggatgcatt ggctgcagct ttagcccaca tttctggtgc 120
 atcaagcttt gaaccacgat ctttgatcac ctctgataag gggtttgtga ccatgactct 180
 ggaaagccta gaggaaatac aggatgtcag ctgtgcttgg aaagaactta acagaaagct 240
 gagtagtaat gcagtgtctc agattaccag aatgtgcctc ctgaaaggaa atatgggtgt 300
 ttgctttgat gttcctacaa ctgagtcaga aaggttacag 340

<210> 165
 <211> 247
 <212> DNA
 <213> Homo Sapiens

<400> 165
 gcatctggcc atctgaagag gttttggctt actactgcct caagcacaat aatatattca 60
 gggcccttgc tgttgtgtgag ctaggggggtg gcatgacatg cttggctggg ctcatggttg 120
 ctattttctgc agatgtcaaa gaagtctgt taactgatgg gaatgaaaag gccatcagaa 180
 atgtgcaaga catcatcaca aggaatcaga aggctggtgt gtttaagacc cagaaaatat 240
 caagctg 247

<210> 166
 <211> 203
 <212> DNA
 <213> Homo Sapiens

<400> 166
 gaagtgtttg gattgtgagc tatttcagaa ctgttctcag gactcattat tttAACattt 60
 gggagaaaca cagccagaag atgcacactt gactgaagga ggacaggga tctgaagact 120
 ccgatgaca tcagagctac ttttcaacag ctttctcaat tttctttctc agaaagcaga 180
 ggctcagagc ttggagacag acg 203

<210> 167
 <211> 753
 <212> DNA
 <213> Homo Sapiens

<400> 167
 ccgattttatt ttgcatattc ccagcgagga aagagacaat gcaatccgag tgtgtttttca 60
 gattgaactt gcccatgtgt tttacttgga tttctacatg cagaacacac caggattacc 120
 tcagtgtggg ataagagact ttgctaaagc tgtcttcagt cattgtccgt ttttgctgcc 180
 tcaaggtgaa gatgtggaaa aagttttgga tgaatggaag gaatataaaa tgggagtacc 240
 aacatatggt gcaattattc ttgatgagac acttgaaaat gtactactag ttcaggggta 300
 cctagcaaaa tcaggctggg gatttcctaaa aggaaaagta aataaagaag aagctcctca 360
 tgattgtgct gctagagagg tctttgaaga aactggtttt gatatcaaag actatatttg 420
 taaggatgat tacattgaac ttcgaatcaa tgaccagctt gctcgtttgt acatcattcc 480
 aggaattcca aaagacacaa aatttaaccc aaaaactaga agagaaattc ggaacattga 540
 gtggttctct attgagaaat tgccttgtca tagaaatgat atgaccccca aatccaaact 600
 tggtttgga cctaacaaat tttttatggc cattcccttt atcagaccat taagggactg 660
 gctttctcga agatttggcg attcctcaga cagtgacaat ggattttcct caactggtag 720
 cacgccggct aaaccactg tggaaaaatt gag 753

<210> 168
 <211> 982
 <212> DNA
 <213> Homo Sapiens

<400> 168
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 gctttgaaac ttgtagctgt tgcccagtct ggtttccctt taagagtgga aagtataaat 120
 acagtaaagg accttctctt gccaaagattt gttgcttcaa agaatagaaca ggaatctcgc 180
 catgcagcct catattcttc agattctgaa aatcaagggt cgtattctgg tgtaattccc 240
 ccaccacctg gcagggggca agtgaaaaag ggatccgtaa gccatgatac ggttcagcct 300
 cgtacatctg cagatgcaca ggaacctgca tccccagtag tttcaccaca gcaatcccca 360

ccaacttctc cacacacatg gaggaagcac agccgtcatc ccagcgggtgg gaatagtgag	420
aggcctctcg cgggacctgg gccatttttg tctccctttg gtgaagcaca atcaggttct	480
tctgctgggtg atgcagtgtg gtcagggcat tccccacctc cacctcaaga aaactgggtc	540
agttttgcag atactccacc aaccagtact cttttaacca tgcattcctgc ttctgtccag	600
gaccagacaa cagtacgaac tgtagcatca gctacaactg ccattgaaat tcgtaggcaa	660
tccagtagtt atgatgatcc ctggaaaata acagatgaac aaagacagta ttatgtaa	720
cagtttaaaa ccattcagcc tgatctaaac ggatttattc caggatctgc agctaaagag	780
ttttttacaa aatcaaaact tcctattctt gaactttctc atatttgga actctcagac	840
tttgataaag atgggtgatt gacactggat gagttttgtg ctgcttttca tctggtggtt	900
gctaggaaga atggctatga ttaccagaa aaacttcctg aaagcttaat gcccaaactg	960
attgatttgg aagattcagc ag	982

<210> 169
 <211> 779
 <212> DNA
 <213> Homo Sapiens

<400> 169	
gtatgtgata gtggaatgtg aagatcaaga tactcagcag agagatccaa agacccatga	60
gatgtacttg aacgtaatga gaagattcag ccaagcattg ttgaagggtg ataagtctgt	120
cagagttatg cgttctttgc tggctgcaca acagacattt gtagatcggg tgggtgcatct	180
aatgaaggca gtacaacgcg aaagtggaaa tcgtaagaaa aagaatgaga gactacaggc	240
attgcttgga gataatgaaa agatgaattt gtcagatgtg gaacttatcc cgttgccttt	300
agaaccccaa gtgaaaatta gaggaataat tccggaaaca gctacactgt ttaaaagtgc	360
ccttatgcct gcacagttgt tttttaagac ggaagatgga ggcaaatatc cagttatatt	420
taagcatgga gatgatttac gtcaagatca acttattctt caaatcattt cactcatgga	480
caagctgtta cggaaagaaa atctggactt gaaattgaca ccttataagg tgtagccac	540
cagtacaaaa catggcttca tgcagtttat ccagtcagtt cctgtggctg aagttcttga	600
tacagaggga agcattcaga acttttttag aaaatatgca ccaagtgaga atgggccaaa	660
tgggattagt gctgaggtca tggacactta cgttaaaagc tgtgctggat attgcgtgat	720

cacctatata cttggagttg gagacaggca cctggataac cttttgctaa caaaaacag 779

<210> 170
 <211> 295
 <212> DNA
 <213> Homo Sapiens

<400> 170
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 caggttgaat atgaaaggag agaactgttt gaagagaggc gtgctaaaca gacagaactg 120
 cggcttttgg aacagaaagt tgagcttgcg cagctgcaag aagaatggaa tgaacataat 180
 gccaaaataa ttaaataatat aagaactaag acaaagcccc atttgtttta tattcctgga 240
 agaatgtgtc cagctaccca aaaactaata gaagagtcac agagaaaaat gaacg 295

<210> 171
 <211> 693
 <212> DNA
 <213> Homo Sapiens

<400> 171
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 ttaaaactcg tttcagacag tttgtctgaa catgagaaga acaagaacaa agaggagat 180
 gataagaaag agggaggtaa agacagagct ttgaaaggag ttttgcgagt gggagtattg 240
 gcaaaaggat tacttctccg aggagataga aatgtcaacc ttgttttgct gtgctcagag 300
 aaaccttcaa agacattatt aagccgtatt gcagaaaacc taccacaaaca gcttgctggt 360
 ataagccctg agaagtatga cataaaatgt gctgtatctg aagcggcaat aattttgaat 420
 tcatgtgtgg aacccaaaat gcaagtcact atcacactga catctccaat tattcgagaa 480
 gagaacatga gggaaggaga tgtaacctcg ggtatggtga aagaccacc ggacgtcttg 540
 gacaggcaaa aatgccttga cgctctggct gctctacgcc acgctaagtg gttccaggct 600
 agagctaattg gtctgcagtc ctgtgtgatt atcatagca ttcttcgaga cctctgtcag 660
 cgagttccaa cttgggtctga ttttccaagc tgg 693

<210> 172
 <211> 298

<212> DNA

<213> Homo Sapiens

<400> 172

aactgtcagc acaacaccgc gggagagcac tgtgaacgct gccaggaggg ctactatggc	60
aacgccgtcc acggatcctg cagggcctgc ccatgtcctc acactaacag ctttgccact	120
ggctgtgtgg tgaatggggg agacgtgcgg tgctcctgca aagctgggta cacaggaaca	180
cagtgtgaaa ggtgtgcacc gggatatttc gggaatcccc agaaattcgg aggtagctgc	240
caaccatgca gttgtaacag caatggccag ctgggcagct gtcatcccct gactggag	298

<210> 173

<211> 1583

<212> DNA

<213> Homo Sapiens

<400> 173

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gatgaagaag aggaagagga agaaaccagt gttaaaacag aagatataat aattaaggat	120
aaagctaaag gaaaaaagag taaagctgct gctaaagctg gatcttctaa ataccagtgg	180
ggcattatga aatcccttgg cctgtctgat gaagagatag taaaattttc tgaagcagaa	240
cattggcttg attattttccc gccactggct attcaggatt taaaaagaat gggtttgaag	300
gtagactggc gtcgttcctt catcaccact gatgttaatc cttactatga ttcatttgtc	360
agatggcaat ttttaacatt aagagaaaga aacaaaatta aatttgggaa gcggtataca	420
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ctaggcactc	acctgccttg	ggatgagcag	tggctgattg	aatcactttc	tgactccact	1500
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gcagagtctc	cgctgggcat	tag				1583

<210> 174
 <211> 371
 <212> DNA
 <213> Homo Sapiens

<400> 174	
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tggccttaat	gttgactttg
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aatctgtggt	tggaataaaa
tctacaaatg	ttattgtaga
ttctgggggc	tttgatgaac
	120
taggtggact	tctcaaacca
acagtggcct	ctcagaacca
gaaccttcct	gttgccaaac
	180
tcccacctag	caagttagta
tctgatgact	tggattcatc
tttagccaac	cttgtgggca
	240
atcttggcat	cggaaatgga
accactaaga	atgatgtaaa
ttggagtcaa	ccaggtgaaa
	300
agaagttaac	tgggggatct
aactggcaac	caaaggttgc
accaacaacc	gcttggaatg
	360
ctgcaacaat	g
	371

<210> 175
 <211> 576
 <212> DNA
 <213> Homo Sapiens

<400> 175	
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gagaagtggc	agccgctgca
aacaattcgc	actgcacagt
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cggaattgct	ttcaacgcca
agatcggagg	agtgcgaaatg
ctggacggag	atgtcacgga
	120

catggttgaa gcaaaatcag ttagcttcaa cccccagcac gtgcacattt acagcgccag	180
ctggggcccg gatgatgatg gcaagactgt ggacggacca gccccctca cccggcaagc	240
ctttgaaaac ggcgttagaa tggggcggag aggccctggc tctgtgtttg tttgggcatc	300
tggaaatggt ggaaggagca aagaccactg ctcctgtgat ggctacacca acagcatcta	360
caccatctcc atcagcagca ctgcagaaaag cggaaagaaa ccttggtacc tggaagagtg	420
ttcatccacg ctggccacaa cctacagcag cggggagtcc tacgataaga aaatcatcac	480
tacagatctg aggcagcgtt gcacggacaa ccacactggg acgtcagcct cagcccccat	540
ggctgcaggc atcattgcgc tggccctgga agccaa	576

<210> 176
 <211> 379
 <212> DNA
 <213> Homo Sapiens

<400> 176	
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agtggattca tttttctaca tattaggata taaccctgag acaaggaggc tgaacagtac	120
ccagggggag attcgtgtcg gtcctagtca tcaggccaaa cttccagatc tgcaaccatt	180
tccttctcca gatggtgata cagtgacca acatgaggaa ctggtctgga tgcctggagt	240
taacgactgt gacctcctta tgtacttgag ggacagcaagg agcatggcgg catttgcagg	300
aatgtgtgat ggaggctcta cagaggacgg ctgtgtcgca gcctctcggg atgacaccac	360
tctgaatgca ctgaacaca	379

<210> 177
 <211> 516
 <212> DNA
 <213> Homo Sapiens

<400> 177	
ctgaatgcaa tatccataca tctccttctc cgggaattca agtaaggcat gtctacaccc	60
cctctacaac aaagcatttc tcaccataa aacagtcaac cactttaacc aacaaacaca	120
gaggaaatga ggtctctacc acacctctgt tagcaaattc tttgtctgtt caccagttgg	180
ctgctcaggg agagatgctc tatctggcta ctcgtatcga acaagaaaat gttatcaatc	240

acacggatga agaaggattt actcctctga tgtgggctgc agcacacggg caaatagctg 300
 tggtagagtt cctacttcag aatgggtgctg atccccaact tttaggaaaa ggtcgagaaa 360
 gtgcactgtc gttggcctgt agtaaaggct acacagatat tgtcaaatg ctgcttgatt 420
 gtggagttga tgtaaatgaa tatgattgga atggaggaac acctctgctt tatgctgtac 480
 atggaaatca tgtgaaatgt gtaaagatgc tcttag 516

<210> 178
 <211> 181
 <212> DNA
 <213> Homo Sapiens

<400> 178
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 aaaagaagca aaagagaatg aaaagcagaa aagtgagaaa gcctacagaa aatcaagaaa 120
 aaaacataag aaagagagag agaagaaaaa atccaaaagg agaaaacgtg agaaacataa 180
 g 181

<210> 179
 <211> 602
 <212> DNA
 <213> Homo Sapiens

<400> 179
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 atggtctcca agtacagaga cattttggaa ccccaaatg aaaggcatag ccagtcattg 120
 acagaaactg gcagtgaata tgagaatgta tctctctctg aaatcacacc agcagcattc 180
 agcactttta ctacggcatc agtggaagaa tctgaaagca catcatctgc tcgaaggagg 240
 gactcaggca ttggggaaga aacagccact ggtttaggaa gccatgtgga agtaactcct 300
 cacacagcac ctcttggtgt cagtgcaggc ccagatgcaa tcagcgaggt gctatctact 360
 ctttcttttag aagtcaataa gtctccggaa accaaaaatg atagaggaaa tgacttggac 420
 actaaggcta caccgtcagt ttcagtttca aaaaacgtca atgtgaaaga cattctccga 480
 agcttgggta acataccagc agatggagtc acagtggatc ctgcccttct gccaccagcc 540
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 ag 602

<210> 180
 <211> 175
 <212> DNA
 <213> Homo Sapiens

<400> 180
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 tcctggggct ttaacaaatg ccagaaatgc cccaagaaac catcttatca tggatacaac 120
 caaatgatgg aatgcctacc gggttataag cgggttaaca acaccttttg ccaag 175

<210> 181
 <211> 1571
 <212> DNA
 <213> Homo Sapiens

<400> 181
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 acagagaaga acacgccgag tttgtcctgg tgcggaaaga tgtgcttttt agccagctgg 120
 tggagactgc gtcctggcc ctgggggtatt ctcacagctc tgcggcccag gcccaaggaa 180
 taatcaagct gggaaggtgg aaccctctcc ccctcagtta tgtgacagat gcacccgacg 240
 cgacagtggc cgacatgcta caagatgtct atcatgttgt gacgttgaaa atccaattac 300
 aaagttgttc aaagttggaa gacttgccctg cggagcagtg gaaccatgcc acagtccgca 360
 atgccttaaa ggaactgctc aaagagatga accagagcac attagccaaa gaatgccctc 420
 tctcccagag tatgatttca tccattgtaa atagcacata ttatgccaat gtgtcagcaa 480
 ccaagtgcc aaggatttggg agatggtata aaaagtacaa gaagattaaa gtggaaagag 540
 tggaacgaga aaacctttca gactattgtg ttctggggcca gcgtccaatg catttaccaa 600
 atatgaacca gctggcatcc ctgggggaaaa ccaacgaaca gtctcctcac agccaaattc 660
 accacagtac tccaatccga aaccaagtgc ccgcattaca gcccatcatg agccctggtc 720
 ttctttctcc ccagcttagt ccacaacttg taaggcaaca aatagccatg gcccatctga 780
 taaaccaaca gattgccgtt agccggctcc tggctcacca gcatcctcaa gccatcaacc 840
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 ccgtggaagt ctctccagat atctaccagc aagtcagaga tgagctgaag agggccagtg 960

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ccatgcagaa	tttctcaat	ctgccagaag	tggagcgaga	tcgcatctac	caggatgaga	1140
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cctcccgaac	ccctcaggcc	aaaacctcga	caccgacaac	agacctccct	attaaggtgg	1260
acggcgccaa	catcaacatc	acagctgcca	tttatgacga	gatccaacag	gagatgaaaa	1320
gggccaaggt	gtctcaagcc	ctgtttgcca	aagtggctgc	aaataaaagt	cagggctggc	1380
tgtgtgaact	gctccgctgg	aaggagaacc	caagcccaga	aaaccgcacc	ctctgggaaa	1440
acctctgtac	catccgtcgc	ttcctgaacc	ttccccagca	tgagagggat	gtcatctatg	1500
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agccggtgca	g					1571

<210> 182
 <211> 1703
 <212> DNA
 <213> Homo Sapiens

<400> 182	
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tggaatatatt	ttctacacaa
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tgaagtcaac	aacttaattt
aaaccagtgt	ttgtgcgggt
ctgattcatc	tgctgtgggt
	120
cccgaagctt	gagatctaag
gagtacaggg	tcttttgtga
tgacaatatg	actaatagta
	180
aaggaagatc	tattaccgat
aaaacaagtg	gtggtccaag
tagtggagga	ggttttgtag
	240
attggacttt	acgtttaaac
acaattcaat	ccgacaagtt
tttaaattta	ctcttgagta
	300
tggttccagt	gatttaccag
aaaaaccaag	aagacaggca
caaaaaagca	aacggcattt
	360
ggcaagatgg	attatcaact
gcagtacaga	cttttagtaa
tagatctgag	caacacatgg
	420
agtatcacag	tttctcagag
cagtcttttc	atgccaataa
tgggcacgca	tcatcaagct
	480
gcagccaaaa	gtatgatgac
tatgccaat	ataattactg
tgatggaagg	gagacttcag
	540
aaaccactgc	catgttacia
gatgaagata	tatctagtga
tggtgatgaa	gatgctattg
	600
tagaagtgac	cccaaaatta
ccaaaggaat	ccagtggcat
catggcattg	caaatacttg
	660
tgcccttttt	gctagctgggt
tttggaaacag	tttcagctgg
catggtactg	gatatagtac
	720

agcactggga ggtgttcaga aaagttacag aagttttcat tttagtcctt gcacttcttg	780
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ggaagatgga ttcacccatt gaaaagtgga acctaataat tggcaacttg gctttaaagc	900
aggttcaggc aacagtagtg ggttttctag cagctgtggc agcaattata ttgggctgga	960
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agaagactgg tataaatcct gataatgttg ctacacccat tgctgctagt tttggcgacc	1140
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attactacat ttctccatta gttggtgtat ttttcttggc tctaaccct atttggatta	1260
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caaacttggg tgggattggt gtttacacgc cagttattaa tggatttggg ggtaatttgg	1440
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tgctgatga acccaaagg tgttactacc catttagaac tttctttggg ccaggagtaa	1560
ataataagtc tgctcaagtt ctactgcttt tagtgattcc tggacattta attttctct	1620
acactattca tttgatgaaa agtggtcata cttctttaac tataatcttc atagtagtgt	1680
atttatttgg cgctgtgtta cag	1703

<210> 183
 <211> 660
 <212> DNA
 <213> Homo Sapiens

<400> 183	
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tctttgaata cattatattc cgtgggagtg acattaaaga cttactgtt tgtgagccac	120
caaaaccaca gtgttctttg cctcaagacc cagctattgt tcagtcctca ctaggctcat	180
cgacttcttc attccagtcc atgggttctt atggacctt cggcaggatg cccacataca	240
gtcagttcag tccgagttcc ttagttgggc agcagtttgg tgctgttggt gttgctggaa	300
gctctttgac atcctttgga acagaaacat caaacagtgg taccttacc caaagtagtg	360

cggttggttc tgcctttaca caggatacaa gatctctaaa aacacagtta tctcaaggtc	420
gctcaagccc tcagtttagac cctttgagaa aaagcccaac catggaacaa gcagtgcaga	480
ccgcctcagc ccacttacct gctccagcag ctgttgggag aaggagtcct gtatcaacca	540
ggcctttgcc atctgccagc caaaaggcag gagagaatca ggagcacagg cgagctgaag	600
tacacaaagt ttcaaggcca gaaaatgagc aactcagaaa tgataacaag agacaagtag	660

<210> 184
 <211> 963
 <212> DNA
 <213> Homo Sapiens

<400> 184	
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tctctgcttt tgccttgctt gctgccagct agactgtgac gacagcacat ccaccctcca	120
cctctagccc agacaccccc atttctactt ataatacaaga gaaaagctct aagtatctgg	180
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tgccaggaaa tcaaggagga aaaaaaaaaat ctttttctcg attttgctct aaactgctgc	300
atctgtctat gccaaactaa tcaataccga ttgcaccacc aaactccatt gcaaattcag	360
ctgtgaggag attccctttc agacaacttt gctgaaagca gcttggaat tcggtgtcga	420
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agtatttctc taaaaaccaa aacctctttg aattaacagt ttcattgctgt gaatttctag	600
tgggagatct tttccttgat attgacgaca caattttcca tgtactttta aagcaggag	660
tggggaaaag tattttgagg ggacattttc atcatcagtt cagctttttt tttttggttg	720
ttgctctttt ttgggggggt tgggtttgtt ggtttctactg aaacatttaa ctacctgtaa	780
aatctaaaca tggctgttag tgtcacacca attcgggaca caaatggct aacactggaa	840
gtatgtagag agttccagag ggggacttgc tcacggccag acacggaatg taaatttgca	900
catccttcga aaagctgcca agttgaaaat ggacgagtaa tcgcctgctt tgattcattg	960
aaa	963

<210> 185

<211> 970
 <212> DNA
 <213> Homo Sapiens

<400> 185
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 cctccagttc cgttggactg ggctgaagta caaagtcaag gagaagaaac gaatgcatca 120
 gatcaacaga atgaacccca gttaggcctg aaagaccagc aggttctaga tgtaaagagc 180
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 tcaatggcag ggaacattat tcctgctatt gctactacta atgcagtaat tgctgggttg 420
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 aacccaatt gttatgtatg tgccagcaag ccagaggtga ctgtgaggct gaatgtccat 600
 aaagtgactg ttctcacctt acaagacaag atagtgaag aaaaatttgc tatggtagca 660
 ccagatgtcc aaattgaaga tgggaaagga acaatcctaa tatcttccga agagggagag 720
 acggaagcta ataatcacia gaagttgtca gaatttggaa ttagaaatgg cagccggctt 780
 caagcagatg acttcctcca ggactatact ttattgatca acatccttca tagtgaagac 840
 ctaggaaagg acgttgaatt tgaagttgtt ggtgatgccc cggaaaaagt ggggccccaa 900
 caagctgaag atgctgcaa aagcataacc aatggcagtg atgatggagc tcagccctcc 960
 acctccacag 970

<210> 186
 <211> 320
 <212> DNA
 <213> Homo Sapiens

<400> 186
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 tgggtgcaaaa aggaattcca gtaacgatga ccataggggt tggcaccgg catgtacagg 120
 agttcatcag cggtcagtct gtggtgtttg tggccattgc cttcatcacc atgatgatta 180
 tctcgttagc ctggctaata ttttactata tacagcgttt cctatatact ggctctcaga 240

ttggaagtca gagccataga aaagaaacta agaaagttat tggccagctt ctacttcata 300
ctgtaaagca tggagaaaag 320

<210> 187
<211> 1094
<212> DNA
<213> Homo Sapiens

<400> 187
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gccccgggtca atgggtcagt ctttatttgcg ctgcttcgaa gattcgactg caactttgac 120
ctcaaggtcc taaatgcccc gaaggctgga tatggtgccg ctgtagtaca caatgtgaat 180
tccaatgaac ttctgaacat ggtgtggaat agtgaggaaa tccagcagca gatctggatc 240
ccgtctgtat ttattgggga gagaagctcc gagtacctgc gtgccctctt tgtctacgag 300
aagggggctc ggggtgcttct ggttccagac aataccttcc ccttgggcta ttacctcatc 360
cctttcacag ggattgtggg actgctggtt ttggccatgg gagcagtaat gatagctcgt 420
tgtatccagc accggaaacg gctccagcgg aatcgactta ccaaagagca actgaaacag 480
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tgcgtggacc cctggctcac tcagaccggg aagacctgcc ccatttgcaa gcagcctggt 660
catcggggctc ctggggacga agaccaagag gaagaaactc aagggaaga ggagggtgat 720
gaaggggagc caagggacca ccctgcctca gaaaggaccc cacttttggg ttctagcccc 780
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tctttgtgga ctaa 1094

<210> 188
<211> 378

<212> DNA
 <213> Homo Sapiens

<400> 188
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 gatccgaact ctgcgcctcc actccaacca cctgtactgc gactgccacc tggcctggct 120
 ctcggattgg ctgcgacagc gacggacagt tggccagttc acactctgca tggctcctgt 180
 gcatttgagg ggcttcaacg tggcggatgt gcagaagaag gagtacgtgt gccagcccc 240
 ccactcggag ccccatcct gcaatgccaa ctccatctcc tgcccttcgc cctgcacgtg 300
 cagcaataac atcgtggact gtcgaggaaa gggcttgatg gagattcctg ccaacttgcc 360
 ggagggcatc gtcgaaat 378

<210> 189
 <211> 900
 <212> DNA
 <213> Homo Sapiens

<400> 189
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 ccccaactgt ttgccaagga cctgcctttc actaggccct gagctcagat gcagaagtga 360
 gctgaaaaac catttctgcc ttgagttttt cagtccagca aaggaaacag agattaatta 420
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 ctgcgagaca ttttgatca tcacaattgg gatccgcat ggtagttcac tcttgaggga 540
 tattgaggta gggggatcat ttgaggccag gagttcaaga ccagcctagg caacatagca 600
 agacccccca tctctacaaa aagttaaaag attagccagg catgttggtg cacacctgta 660
 gtcccagcta ctcaggaggc tgaggcagga ggatcccttg agcccaggac gtcaaggctg 720
 cagtgcacta tggttgcacc actgcactcc agcctgggca acagagtgag actcccaact 780
 ccaaacagac aattggaggc ggataggttt tcctggtgtc aagcgggtgg aagccaggga 840

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<210> 190
 <211> 1024
 <212> DNA
 <213> Homo Sapiens

<400> 190
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 ttgaaagaac tactaatagt agttgggtgg tggcttcaa atctctcatt acaactcatc 120
 atttgatggg gtatggaaat gagcgtttta ttcagtatgt ggcttcaaga aacacgttgt 180
 ttaacttaag caatTTTTTg gataaaagtg gattgcaagg atatgacatg tctacattta 240
 ttaggcggta tagtagatat tttaatgaga aagcagtttc atacagacaa gttgcatttg 300
 atttcacaaa agtgaagaga ggggctgatg gagttatgag aacaatgaac acagaaaaac 360
 tcctaaaaac tgtaccaatt attcagaatc agatggatgc acttcttgat tttaatgtta 420
 atagcaatga acttacaat ggggtaataa atgctgcctt catgctcctg ttcaaagatg 480
 ccattagact gtttgcagca tacaatgaag gaattattaa tttgttgga aaatatTTTg 540
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 tgacaagaat ctgagagttc ctcaaagttg cagagcaagt tggaattgac agaggtgata 660
 taccagacct ttcacaggcc cctagcagtc ttcttgatgc tttggaacaa catttagctt 720
 ccttggaagg aaagaaaatc aaagattcta cagctgcaag cagggaact acactttcca 780
 atgcagtgtc ttccctggca agcactggtc tatctctgac caaagtggat gaaagggaaa 840
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 aagaacttgc aaagaaacct catacctctt taacaactgc agcctctcct gtatccacct 960
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<210> 191
 <211> 234
 <212> DNA
 <213> Homo Sapiens

<400> 191
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<211> 2334

<212> DNA

<213> Homo Sapiens

<400> 222

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 gggagaaaca cagccagaag 80

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 <211> 204
 <212> DNA
 <213> Homo Sapiens

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<210> 227
 <211> 898
 <212> DNA
 <213> Homo Sapiens

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<210> 229
<211> 249
<212> DNA
<213> Homo Sapiens

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<210> 230
<211> 981

<212> DNA

<213> Homo Sapiens

<400> 230

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<211> 5178

<212> DNA

<213> Homo Sapiens

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ccagtggcct tagaggctct aaaaatggct tccctaaggc ctcgagggct gtcctctcca	540
caaaaatccc agcacccttc gctcagctta taatcaggca aagccacagg gcctgaagcc	600
ccagggtcaa atcctccttt ggcctttggc tttctctgtg accttgggca aatgcctttg	660
cccctctggc ctgtttcctg ttctgcaaaa tgttgagggg aatcttcctt acttcctgga	720
gtattttgtaa acattaaata ataattagct ctaataatgg ctaacactat ttgagcctga	780
tgccaagggc ttgatgcatg ggttaatttc tccaacaag ctgggggttgt tgttacaccc	840
actgtataga tgaggaaact gaggcctgga gcccttgagt tacacagaaa gtgatcggca	900
gtgtggggaa tcagtacagt ggagactttg aggggctgtg taggattctg acccacatct	960
ctgcccccca cttccagggc caattcctgt cccccagca gcatggcatc gtgtgctgaa	1020
ccctctgagc cctctgcccc actgcccgcc ggggtccac cgctcgagga cttcgaggta	1080
ctggatgggg ttgaggatgc agagggtgag gaggaagagg aggaggaaga ggaggaagag	1140

gatgacctga gtgagctgcc accgctggag gacatgggac aacccccggc ggaggaggct	1200
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gccccggccc cagaagagtg gctggacatt ctggggaacg ggctgttgag gaagaagacg	1320
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ctgcagacgt cgctggagaa tggcacacgg gtgcaggagg agccggagct ggtgttcact	1440
ctgggtgact gtgacgtcat ccaggccctg gatctcagtg tcccactcat ggacgtgggg	1500
gagacggcca tggctactgc tgactccaag tactgctacg gcccccaagg cag	1553

<210> 241
 <211> 1135
 <212> DNA
 <213> Homo Sapiens

<400> 241	
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caccatcgtt tcagctccaa agtcacaaaa actatgaagg aacttgtgag attcctgaat	180
ctaaatatag ccatttaggt ggtcccaaac cttttgagtg cccaagtatt caaattacat	240
ctatctctcc taactgtcat caagaattag atgcacatga agatgacctc cagataaatg	300
accagaacg ggaatttttg gaaaggcctt ctagagatca tctctatctt cctcttgagc	360
catcctaccg ggagtcttct cttagtccta gtcctgccag cagcatctct tctaggagtt	420
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agttgaatga agctgcagcc cgattttacc ttggatcccc tctgacttct cctggtggct	540
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tatcaccag gcaatctcct tgccactctc ctagatccag tgtcactgat gagaattggc	660
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ggcactccag tgctgaagtt tgttatgctg ggtccctttc accccatcac tcacctgttc	780
cttcacctgg tctactcccc aggggaagtg tgacagaaga tacgtggctc aatgcttctg	840
tccatggtgg gtcaggcctt ggccctgcag tttttccatt tcagtactgt gtagagactg	900
acatccctct caaaacaagg aaaacttctg aagatcaagc tgccatacta ccaggaaaat	960

tagagctgtg ttcagatgac caagggagtt tatcaccagc ccgggagact tcaatagatg	1020
atggccttgg atctcagtat cctttaaaga aagattcatg tggatgacag tttctttcag	1080
ttccttcacc ctttacctgg agcaaacc aa agcctggcca caccctata tttcg	1135

<210> 242
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0130587 (circMIR5695) junction sequence 3' End

<400> 242	
tttgaatttt cagaggaaaa gacagtgaga gagcaagagc agattgagaa gcagaagagt	60
gagtcgcaaa aagagaaaaat gacagaaatg gaggaccctg	100

<210> 243
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0130587 (circMIR5695) junction sequence 5' End

<400> 243	
ggaaaagaaa ccaagtctcc ttgaatcagt ttatcccaat gtcttctggt tttctatgtt	60
ggctacagtc aagataacct attactaagg taggttgtgt	100

<210> 244
 <211> 83
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0023881 (circPICALM) junction sequence 3' End

<400> 244	
ctgtaatgac gcaaccaacc ttaatataca gccagcctgt catgagacct ccaaaccctt	60
ttggccctgt atcaggagca cag	83

<210> 245
 <211> 82
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0023881 (circPICALM) junction sequence 5' End

<400> 245

gcaccccctg taatggccta tcctgctact acaccaacag gcatgatagg atatggaatt 60

cctccacaaa tgggaagtgt tc 82

<210> 246

<211> 100

<212> DNA

<213> Artificial

<220>

<223> hsa_circ_0131196 (circTULP4) junction sequence 3' End

<400> 246

gcgaggagtg gttgggggtga ctttcacctc tagtcactgt cgcagggaca ggagtactcc 60

acagaggata aatttcaacc tccggggcca caatagcgag 100

<210> 247

<211> 100

<212> DNA

<213> Artificial

<220>

<223> hsa_circ_0131196 (circTULP4) junction sequence 5' End

<400> 247

tcctgggtca agctgagtat ctccacgttt aggtgcacaa atactatattt gtgaagatct 60

taaatttgtg gtataagaac ttgaaggaaa tagaactgat 100

<210> 248

<211> 100

<212> DNA

<213> Artificial

<220>

<223> hsa_circ_0091072 (circCHIC1) junction sequence 3' End

<400> 248

ggctctcccg gtcaatgtga aatggctgct gtgtggttgt ctctgctgct gttgcacact 60

gggttgacgc ctatggcctg ttatttgtct caacaaaaga 100

<210> 249

<211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0091072 (circCHIC1) junction sequence 5' End

<400> 249
 gtttggcttg agcaacaagt ttgatactga atttcctcc gttctaacag ggaaggtggc 60
 cccagaagaa tttaaaacca gcattggccg tgtgaatgca 100

<210> 250
 <211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0007422 (circSATB2) junction sequence 3' End

<400> 250
 tccccagcat gagagggatg tcatctatga ggaggagtca aggcatacc acagcgaacg 60
 catgcaacac gtggtccagc ttccccctga gccggtgcag 100

<210> 251
 <211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0007422 (circSATB2) junction sequence 5' End

<400> 251
 gtttgatgat tcctgtcttt tgtgtcgtgg agcagttgga cggctctctt gaatatgaca 60
 acagagaaga acacgccgag tttgtcctgg tgcggaaaga 100

<210> 252
 <211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0007097 (circDDX50) junction sequence 3' End

<400> 252
 gagtagtaat gcagtgtctc agattaccag aatgtgcctc ctgaaaggaa atatgggtgt 60
 ttgctttgat gttcctacaa ctgagtcaga aaggttacag 100

<210> 253
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0007097 (circDDX50) junction sequence 5' End

<400> 253
 gtctctggct tccgtttctt acgctgctgt tgattttttc cgaccatcag ctcagagact 60
 gatagaagag aaaggtgcag tggatgcatt ggctgcagct 100

<210> 254
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0009581 (circRERE) junction sequence 3' End

<400> 254
 gagcatggcg gcatttgcag gaatgtgtga tggaggctct acagaggacg gctgtgtcgc 60
 agcctctcgg gatgacacca ctctgaatgc actgaacaca 100

<210> 255
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0009581 (circRERE) junction sequence 5' End

<400> 255
 agggaagtgt aacatctccc atttttctga catatttgct gctagagagt ttaaagcccg 60
 agtggattca tttttctaca tattaggata taaccctgag 100

<210> 256
 <211> 98
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0060342 (circRALGAPB) junction sequence 3' End

<400> 256

tgcaccaat agtggatttta gttcagcaag tgggtggaagc acggagccca cgactcccga 60

tagtgagaga cctgctcaag ctctcttaag agattatg 98

<210> 257

<211> 97

<212> DNA

<213> Artificial

<220>

<223> hsa_circ_0060342 (circRALGAPB) junction sequence 5' End

<400> 257

gggcaatgtt aaatattgtt caagattcag cacttttgga agccattggt tgccagatgg 60

agatgggtgg tggagaaaat aacctgaaga gtcatag 97

<210> 258

<211> 100

<212> DNA

<213> Artificial

<220>

<223> hsa_circ_0001946 (circCDR1as) junction sequence 3' End

<400> 258

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tcttctgaca ttcaggtctt ccagtgtctg caatatccag 100

<210> 259

<211> 100

<212> DNA

<213> Artificial

<220>

<223> hsa_circ_0001946 (circCDR1as) junction sequence 5' End

<400> 259

ggtttccgat ggcacctgtg tcaaggtctt ccaacaactc cgggtcttcc agcgacttca 60

agtcttccaa taatctcaag gtcttccaga taatcctgag 100

<210> 260

<211> 100

<212> DNA

<213> Artificial

<220>

<223> hsa_circ_0062277 (circCOMT) junction sequence 3' End

<400> 260
 catccccag ctgaagaaga agtatgatgt ggacacactg gacatgggtct tcctcgacca 60
 ctggaaggac cggtacctgc cggacacgct tctcttggag 100

<210> 261
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0062277 (circCOMT) junction sequence 5' End

<400> 261
 aaataacatc tgctttgctg ccgagctcag aggagacccc agaccctcc cgcagccaga 60
 gggctggagc ctgctcagag gtgctttgaa gaggatccct 100

<210> 262
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0005133 (circDDR1) junction sequence 3' End

<400> 262
 tgccgggggc ctgggcaagg agttctcccg gagctaccgg ctgcgttact cccgggatgg 60
 tcgccgctgg atgggctgga aggaccgctg gggtcaggag 100

<210> 263
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0005133 (circDDR1) junction sequence 5' End

<400> 263
 agatgctgcc cccaccccct taggcccag ggatcaggag ctatgggacc agaggccctg 60
 tcatctttac tgctgctgct cttggtggca agtggagatg 100

<210> 264
 <211> 100
 <212> DNA

<213> Artificial

<220>

<223> hsa_circ_0103668 (circTRIM69) junction sequence 3' End

<400> 264

tgagcaagga ttctggcttt taagactaag gaaccaaact gatctaaagg ctctggattt 60

gccttctttc agtctgacac tgactaaca cctcgacaag 100

<210> 265

<211> 100

<212> DNA

<213> Artificial

<220>

<223> hsa_circ_0103668 (circTRIM69) junction sequence 5' End

<400> 265

gcctgtctcc actaactctg gaccctaaaa cagctcacc aaatctggtg ctctccaaaa 60

gccaaaccag cgtctggcat ggtgacatta agaagataat 100

<210> 266

<211> 69

<212> DNA

<213> Artificial

<220>

<223> hsa_circ_0027446 (circHMGA2) junction sequence 3' End

<400> 266

tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggagacac 60

aggaaatgg 69

<210> 267

<211> 69

<212> DNA

<213> Artificial

<220>

<223> hsa_circ_0027446 (circHMGA2) junction sequence 5' End

<400> 267

gaaccaaccg gtgagccctc tcctaagaga cccaggggaa gacccaaagg cagcaaaaac 60

aagagtccc 69

<210> 268
 <211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0060930 (circCYP24A1) junction sequence 3' End

<400> 268
 caggccacag acaatgagcc tgttgagatg ctacactcag gcaccctggt gcccagccgg 60
 gaactcccca tcgcgttttg ccagcgataa tacgcctcag 100

<210> 269
 <211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0060930 (circCYP24A1) junction sequence 5' End

<400> 269
 gacaggagga aacgcagcgc cagcagcatc tcattctaccc tccttgacac ctccccgtgg 60
 ctccagccag accctagagg tcagccttgc ggaccaacag 100

<210> 270
 <211> 59
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0075410 (circDUSP22) junction sequence 3' End

<400> 270
 gcaagaacaa ggtgacacat attctgtctg tccacgatag tgccaggcct atgttgag 59

<210> 271
 <211> 58
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0075410 (circDUSP22) junction sequence 5' End

<400> 271
 atcctgcccg gcctgtacat cggcaacttc aaagatgccga gagacgcgga acaattga 58

<210> 272

<211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0049241 (circICAM1) junction sequence 3' End

<400> 272
 acacctggca aatttgattt tttttttttt tccagagacg gggctctgca acattgccca 60
 gacttccttt gtgttagtta ataaagcttt ctcaactgcc 100

<210> 273
 <211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0049241 (circICAM1) junction sequence 5' End

<400> 273
 cccccggta tgagattgtc atcatcactg tggtagcagc cgcagtcata atgggcactg 60
 caggcctcag cacgtacctc tataaccgcc agcggaagat 100

<210> 274
 <211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0035301 (circMAPK6) junction sequence 3' End

<400> 274
 tagaatttgt ttcatttatt ttattttatt gaatactgtc tgtatctttg gttatcctgt 60
 ttgaagaaaa aggacaaata aaacatggcc agcaaataca 100

<210> 275
 <211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0035301 (circMAPK6) junction sequence 5' End

<400> 275
 cccctcttcc tcgccctctc tcgcgggtcg gggttacatg gcggcgactg cggcaaagcg 60
 agagcctcgg agacgccgct gccgccagca cagccggaga 100

<210> 276
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0007335 (circVDAC2) junction sequence 3' End

<400> 276
 ggaacactga taacactctg ggaacagaaa tcgcaattga agaccagatt tgtcaagggt 60
 tgaaactgac atttgatact accttctcac caaacacagg 100

<210> 277
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0007335 (circVDAC2) junction sequence 5' End

<400> 277
 gaattttcaa cgtccggttc atctaataca gacactggta aagttactgg gaccttggag 60
 accaaataca agtgggtgtga gtatgggtctg actttcacag 100

<210> 278
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0005615 (circNFATC3) junction sequence 3' End

<400> 278
 agtatccttt aaagaaagat tcatgtggtg atcagtttct ttcagttcct tcacccttta 60
 cctggagcaa accaaagcct ggccacaccc ctatatttcg 100

<210> 279
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0005615 (circNFATC3) junction sequence 5' End

<400> 279

atcttgagcc agatgattgt gcatccattt acatctttaa tgtagatcca cctccatcta 60
 cttaaccac accactttgc ttaccacatc atggattacc 100

<210> 280
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0002082 (circMALAT1) junction sequence 3' End

<400> 280
 ccagctgagt gataaaggct gagtgttgag gaaatttctg cagttttaag cagtcgtatt 60
 tgtgattgaa gctgagtaca ttttgctggt gtatttttag 100

<210> 281
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0002082 (circMALAT1) junction sequence 5' End

<400> 281
 aaactttgtc tgcgaacact cttaaatgga ccagatcagg atttgagcgg aagaacgaat 60
 gtaactttaa ggcaggaaag acaaatttta ttcttcataa 100

<210> 282
 <211> 100
 <212> DNA
 <213> Artificial

<220>
 <223> hsa_circ_0050124 (circFKBP8) junction sequence 3' End

<400> 282
 acgtcatcca ggccctggat ctcagtggtc cactcatgga cgtgggggag acggccatgg 60
 tcactgctga ctccaagtac tgctacggcc cccaaggcag 100

<210> 283
 <211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0050124 (circFKBP8) junction sequence 5' End

<400> 283
 gaattgtgcg ggcgcgggga attatggggg tgggggctgg gagggctctt caaagtgggg 60
 ctccgagccc gggaggagca ggcaggtgag ggtagggag 100

<210> 284
 <211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0080968 (circADAM22) junction sequence 3' End

<400> 284
 ctggcaatgg tgttgctggc accaatatca taataggcat aattgctggc accattttag 60
 tgctggccct catattagga ataactgcgt ggggttataa 100

<210> 285
 <211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0080968 (circADAM22) junction sequence 5' End

<400> 285
 gtgaatgtaa atgcgaggac acgtggtccg ggtgcataat gggagacact ggctattatc 60
 ttcctaaaaa gttcaccag tgtaatatg aagagtatca 100

<210> 286
 <211> 100
 <212> DNA
 <213> Artificial

<220>

<223> hsa_circ_0000907 (circMY09B) junction sequence 3' End

<400> 286
 gagcaccaac ttcctcatcc actgcctcac cgccctcagc cagaagggt acgccagcgg 60
 cgtcgagagg accatcctgg gtgctggccc tgtgctggag 100

<210> 287
 <211> 100
 <212> DNA

<213> Artificial

<220>

<223> hsa_circ_0000907 (circMY09B) junction sequence 5' End

<400> 287

ctccaggaca cgcgcgcccc gagcctggga ggcatgctga agccaggcgg ccggcaggat 60

gagtgtgaaa gaggcaggca gctcgggccg ccgggagcag 100

<210> 288

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<212> DNA

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<220>

<223> circCHIC1-F1

<400> 288

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<210> 289

<211> 20

<212> DNA

<213> Artificial

<220>

<223> circCHIC1-R1

<400> 289

ccaccttccc tgtagaacg 20

<210> 290

<211> 20

<212> DNA

<213> Artificial

<220>

<223> circCHIC1-F2

<400> 290

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<210> 291

<211> 20

<212> DNA

<213> Artificial

<220>

<223> circCHIC1-R2

<400> 291

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<210> 292

<211> 20

<212> DNA

<213> Artificial

<220>

<223> circCHIC1-F3

<400> 292

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<210> 293

<211> 20

<212> DNA

<213> Artificial

<220>

<223> circCHIC1-R3

<400> 293

ccaccttccc tgtagaacg

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<210> 294

<211> 20

<212> DNA

<213> circCHIC1-F4

<400> 294

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20

<210> 295

<211> 20

<212> DNA

<213> Artificial

<220>

<223> circCHIC1-R4

<400> 295

ccaccttccc tgtagaacg

20

<210> 296

<211> 21

<212> DNA
 <213> circCHIC1-F5

 <400> 296
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 <210> 297
 <211> 20
 <212> DNA
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 <220>
 <223> circCHIC1-R5

 <400> 297
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 <210> 298
 <211> 20
 <212> DNA
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 <220>
 <223> circCHIC1-F6

 <400> 298
 ccggtcaatg tgaaatggct 20

 <210> 299
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 <213> circCHIC1-R6

 <400> 299
 acttgctgct caagccaaac tc 22

 <210> 300
 <211> 19
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 <220>
 <223> circCHIC1-F7

 <400> 300
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<211> 22
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<220>
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<400> 301
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<210> 302
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<220>
 <223> circCHIC1-F8

<400> 302
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<210> 303
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 <223> circCHIC1-R8

<400> 303
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<210> 304
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<210> 305
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<223> circCHIC1-R9

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<210> 306
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<220>
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<210> 307
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<400> 307
 gccaacatag aaaaccagaa ga 22

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 <223> circMIR5695-F2

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 gcagaagagt gagtcgcaaa 20

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<220>
 <223> circMIR5695-R2

<400> 309
 gaaaaccaga agacattggg ata 23

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