biomarkers selected from the biomarkers listed in Table 1A and 1B. In another exemplary embodiment, the expression signature comprises two or more biomarkers selected from the sequences of SEQ ID NOs: 632-802 (Group I) or SEQ ID NOs: 802-954 (Group II). In another exemplary embodiment, the expression signature comprises two or more biomarkers selected from the biomarkers listed in Table 2A and 2B. In another exemplary embodiment, the expression signature comprises the biomarkers listed in Table 2A and 2B and their corresponding weights as determined using a PLS classifier.

[0019] In another aspect, the present invention relates to kits for conventional diagnostic uses listed above such as qPCR, microarray, and immunoassays such as immunohistochemistry, ELISA, Western blot and the like. Such kits include appropriate reagents and directions to assay the expression of the genes or gene products and quantify mRNA or protein expression.

[0020] Also disclosed are methods for identifying human tumors with or without the angiogenesis phenotype. In certain exemplary embodiments, such methods may be used to identify patients that are sensitive to and respond to drugs that inhibit, either directly or indirectly, processes relating to angiogenesis. In certain other exemplary embodiments, such methods may be used to identify patients that are resistant to or do not respond to drugs that inhibit, either directly or indirectly, processes relating to angiogenesis.

[0021] In another aspect, the invention can be used as a prognostic indicator in certain cancer types. In one exemplary embodiment, the cancer is ovarian cancer. In another exemplary embodiment, the cancer is breast cancer. In yet another exemplary embodiment, the cancer is glioblastoma.

[0022] This invention also relates to guiding effective treatment of patients. Further, methods relating to selection of patient treatment regimens and selecting patients for clinical trials of current, or developmental stage drugs that directly or indirectly affect angiogenesis are provided.

[0023] In addition, methods that accommodate the use of archived formalin fixed paraffin-embedded (FFPE) biopsy material, as well as fresh/frozen (FF) tissue, for assay of all transcripts, and are therefore compatible with the most widely available type of biopsy material, are described herein. A biomarker expression level may be determined using RNA obtained from FFPE tissue, fresh frozen tissue or fresh tissue that has been stored in solutions such as RNAlater®.

BRIEF DESCRIPTION OF DRAWINGS

[0024] Figure 1 provides a heatmap representing the hierarchical agglomerative clustering analysis of the most variable genes across 199 serous samples of the Almac

angiogenesis sample group and used for expression signature generation. In another exemplary embodiment, biomarkers in clusters that are up regulated and enriched for angiogeneis, vasculature development and immune response general functional terms are grouped into a putative angiongenesis sample group and used for expression signature generation. In another exemplary embodiment, biomarkers in clusters that are down regulated and enriched for angiogenesis, vasculature development and immune response general functional terms are grouped into a putative angiongenesis sample group and used for expression signature generation. Further details for conducting functional analysis of biomarker clusters is provided in the Examples section below.

[0063] In one exemplary embodiment, the biomarkers useful in deriving an expression signature for distinguishing cancer sub-types that are, or are not, responsive to anti-angiogenic therapeutics include those biomarkers listed in Table 1A, Table 1B, or both. In another exemplary embodiment, the biomarkers useful in deriving an expression signature for distinguishing cancer sub-types that are, or are not, responsive to anti-angiogenic therapeutics include those biomarkers listed in Group I (comprising SEQ ID NOs: 632-802~~1~~) or Group II (comprising SEQ ID NOs: 802-975~~4~~), or both. These biomarkers are identified as having predictive value to determine a patient response to a therapeutic agent. Their expression correlates with the response, or lack thereof, to an agent, and more specifically, an anti-angiogenic therapeutic agent. By examining the expression of a collection of the identified biomarkers in a tumor, it is possible to determine which therapeutic agent or combination of agents will be most likely to reduce the growth rate of a cancer. By examining a collection of identified biomarkers in a tumor, it is also possible to determine which therapeutic agent or combination of agents will be the least likely to reduce the growth rate of a cancer. By examining the expression of a collection of biomarkers, it is therefore possible to eliminate ineffective or inappropriate therapeutic agents. Importantly, in certain embodiments, these determinations can be made on a patient-by-patient basis or on an agent-by-agent basis. Thus, one can determine whether or not a particular therapeutic regimen is likely to benefit a particular patient or type of patient, and/or whether a particular regimen should be continued.

Table 1A: Angiogenesis and immune response cluster genes of Fig 1

SEQ NO:	Orientation	Gene Symbol
1	Sense	STAT1
2	Sense	PDGFC
3	Sense	TGFB3
4	Sense	RAC2

95%, about 96%, about 97%, about 98%, or about 99% of the markers listed in Table 1A, Table 1B, Group I, Group II, or a combination thereof. Selected expression signatures can be assembled from the biomarkers provided using methods described herein and analogous methods known in the art. In one embodiment, the expression signature contains all 250 genes or gene products in Table 1A. In another exemplary embodiment, the expression signature contains all 486 genes or gene products in Table 1B. In another exemplary embodiment the expression signature comprises SEQ ID NOs: 632-8024. In aother exemplary embodiment, the expression signature comprises SEQ ID NOs: 802-9754.

4. Mathematical Models

[0065] The following methods may be used to derive expression signatures for distinguishing between subjects that are responsive or non-responsive to anti-angiogenic therapeutics, or as prognostic indicators of certain cancer types, including expression signatures derived from the biomarkers disclosed above. In certain other exemplary embodiments, the expression signature is derived using a decision tree (Hastie et al. The Elements of Statistical Learning, Springer, New York 2001), a random forest (Breiman, 2001 Random Forests, Machine Learning 45:5), a neural network (Bishop, Neural Networks for Pattern Recognition, Clarendon Press, Oxford 1995), discriminant analysis (Duda et al. Pattern Classification, 2nd ed., John Wiley, New York 2001), including, but not limited to linear, diagonal linear, quadratic and logistic discriminant analysis, a Prediction Analysis for Microarrays (PAM, (Tibshirani et al., 2002, Proc. Natl. Acad. Sci. USA 99:6567-6572)) or a Soft Independent Modeling of Class Analogy analysis. (SIMCA, (Wold, 1976, Pattern Recogn. 8:127-139)).

[0066] Biomarker expression values may be defined in combination with corresponding scalar weights on the real scale with varying magnitude, which are further combined through linear or non-linear, algebraic, trigonometric or correlative means into a single scalar value via an algebraic, statistical learning, Bayesian, regression, or similar algorithms which together with a mathematically derived decision function on the scalar value provide a predictive model by which expression profiles from samples may be resolved into discrete classes of responder or non-responder, resistant or non-resistant, to a specified drug, drug class, or treatment regimen. Such predictive models, including biomarker membership, are developed by learning weights and the decision threshold, optimized for sensitivity, specificity, negative and positive predictive values, hazard ratio or any combination thereof, under cross-validation, bootstrapping or similar sampling techniques, from a set of representative expression profiles from historical patient samples with known drug response and/or resistance.

[0067] In one embodiment, the biomarkers are used to form a weighted sum of their signals, where individual weights can be positive or negative. The resulting sum ("expression

[0128] Feature selection resulted in the selection of 1200 probesets from the original epithelial serous ovarian cancer data set (199 samples) and 1400 PS from the reclassified epithelial serous ovarian cancer data set (265 samples). The GAP analysis revealed three sample clusters and three probeset cluster groups within both sample sets (FIG 1, FIG 6).

Classification of tumors into 'angiogenesis' or 'non-angiogenesis' sample groups

[0129] The classification of samples as 'anigogenesis' or 'non-angiogenesis' was based upon the results of the functional analysis of the epithelial serous ovarian cancer dataset (FIG 1 FIG 6). The objective of this study was to characterize at a transcriptomic level a set of genes that would be capable of determining responsiveness or resistance of a pathogenic cell to anti-angiogenic agents and potentially identify patients who could benefit from anti-angiogenic therapy. With this in mind, those samples within the epithelial serous ovarian cancer datasets that best represented this biology were to be selected and compared to the remaining samples for classifier generation (see next section). It was decided that the samples from the sample angiogenesis cluster within the original epithelial serous ovarian cancer sample set (199 samples) were the most relevant samples for this selection as these samples demonstrated an up-regulation of genes involved in signaling related to angiogenic and immune response processes and pathways as defined by functional analysis (FIG 2A and 2B) It was decided that the samples from sample cluster three within the reclassified epithelial serous ovarian cancer sample set (265 samples) were the most relevant samples for this selection as these samples demonstrated an up-regulation of genes involved in signaling related to angiogenic processes and pathways as defined by functional analysis (FIG 2A and 2B)

[0130] An identical hierarchial clustering approach was applied to 105 breast cancer samples. The dominant biology in Breast cancer is ER status and therefore in order to identify the structure in the biology of the samples this cohort was divided into 2 populations for cluster analysis. We identified angiogenesis and vasculature development subtypes (Figure 12A and 12B) demonstrating the expositing of an angiogenesis subtype from breast cancer samples.

Development and validation of the angiogenesis subtype classifier models

[0131] For ease of reference, the following steps are detailed in reference to expression signatures derived from Table 1A or Table 1B. However, a similar proceduce can be applied to other putative clusters of angiogenesis sub-type related biomarkers such as those disclosed in SEQ ID NOs: 632-8024 and SEQ ID NOs: 802-9754). Following the identification of a class of tumors, that form the putative 'angiogenesis' subgroup, computational classification of these tumors versus all others in the tumor cohort with reference to the functional 'angiogenesis' (angiogenesis, vasculature development, immune response) gene list (Table 1A or Table 1B)

defining an expression signature by analysing the expression levels of the biomarkers in the selected cluster in a the sample set of diseased tissue using a supervised or unsupervised training algorithm.

6. The method of claim 5, wherein the microarray is a transcriptome array comprising probe sets that binds to RNA transcripts verified as expressed in a test sample set by isolating and sequencing RNA transcripts from the test sample set and cross-validating the isolated RNA transcript sequences to known RNA transcript sequences, wherein the test sample set comprises the same tissue as the patient test sample

7. The method of claim 6, wherein the probe set comprises probes that bind within 300 nucleotides of the 3' end of each RNA transcript.

8. The method of any one of claims 5 to 7, wherein RNA transcripts comprising coding and non-coding transcripts that include messenger RNAs (mRNA), alternatively spliced mRNAs, ribosomal RNAs (rRNA), transfer RNAs (tRNA), small nuclear RNAs (snRNA), microRNAs (miRNAs) and antisense RNAs.

9. The method of any one of claims 5 to 8, wherein the expression signature is defined using a PLS classifier, a SVM classifier, a SDA classifier, or a DSDA classifier.

10. The method of claim 9, wherein the expression signature is defined using a PLS classifier.

11. The method of any one of claims 1 to 10, wherein the expression signature comprises two or more genes from Table 1A or Table 1B.

12. The method of any one of claims 1 to 10, wherein the expression signature comprises two or more genes from Table 2A or 2B.

13. The method of any one of claims 1 to 10, wherein the expression signature comprises two or more genes comprising the sequences of SEQ ID NOs: 632-8024 (Group I) or SEQ ID NOs: 802-9754 (Group II).

51. The method of claim 50, wherein the microarray is a transcriptome array comprising probe sets that binds to RNA transcripts verified as expressed in a test sample set by isolating and sequencing RNA transcripts from the test sample set and cross-validating the isolated RNA transcript sequences to known RNA transcript sequences, wherein the test sample set comprises the same tissue as the patient test sample

52. The method of claim 51, wherein the probe set comprises probes that bind within 300 nucleotides of the 3' end of each RNA transcript.

53. The method of any one of claims 50 to 57, wherein RNA transcripts comprising coding and non-coding transcripts that include messenger RNAs (mRNA), alternatively spliced mRNAs, ribosomal RNAs (rRNA), transfer RNAs (tRNA), small nuclear RNAs (snRNA), microRNAs (miRNAs) and antisense RNAs.

54. The method of any one of claims 50 to 53, wherein the expression signature is defined using a PLS classifier, a SVM classifier, a SDA classifier, or a DSDA classifier.

55. The method of claim 46 to 54, wherein the expression signature is defined using a PLS classifier.

56. The method of any one of claims 46 to 55, wherein the expression signature comprises two or more genes from Table 1A or Table 1B.

57. The method of any one of claims 46 to 55, wherein the expression signature comprises two or more genes from Table 2A or 2B.

58. The method of any one of claims 46 to 55, wherein the expression signature comprises two or more genes comprising the sequences of SEQ ID NOs: 632-8024 (Group I) or SEQ ID NOs: 802-9754 (Group II).

59. The method of any one of claims 46 to 55, wherein the expression signature comprises ALPK2, BGN, COL8A1, FAP, FN1, GJB2, INHBA, ITGA5, LOXL1, LUM, MIR1245, MMP2, NKD2, PLAU, RAB31, SFRP2, THBS2, TIMP3, VCAN.

SEQUENCE LISTING

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Harkin, Dennis Paul
McDyer, Fionnuala
Wilson, Claire
O'Brien, Eamonn J.
Michie, Caroline
Gourley, Charlie
Hill, Laura A.
Keating, Katherine E.
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gccgcgtgcg tgagaaccgc gccggtgtcc ccagagacca ggctgtgtcc ctcttctctt 180

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tacagctgtg ttattctttg cgtgtagcta tgga 274

<210> 36
<211> 189
<212> DNA
<213> Homo sapiens

<400> 36
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tgcagcccat cctcccggct ccctcctagt ctgtcctgcg tcctctgtcc ccgggtttca 120

gagacaactt cccaaagcac aaagcagttt ttccccctag gggtgggagg aagcaaaaga 180

ctctgtacc 189

<210> 37
<211> 151
<212> DNA
<213> Homo sapiens

<400> 37
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ttcattattt tgtggttcta ttttactttg tacttgtgtt tgcttaaaca aagtgactgt 120

ttggcttata aacacattga atgcgcttta t 151

<210> 38
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<212> DNA
<213> Homo sapiens

<400> 38
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ttcgtttttc ttggggtact cttgatgtga agataatttg catattctat tgtattattt 180

ggagttaggt cctcacttgg g 201

<210> 39
<211> 138
<212> DNA
<213> Homo sapiens

<400> 39
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taatatcaag attactaaaa atgggggaaa ggacttttaa tctttttttc ataatatctt 120

tgacacatat tacagaag 138

<210> 40
<211> 205
<212> DNA
<213> Homo sapiens

<400> 40
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tccctcgcag ttgtggacat ttctgttcct gtccagatac cattttcct agtatttctt 120

tgttatgtcc cagaactgat gtttttttt taaggtactg aaaagaaatg aagttgatgt 180

atgtcccaag ttttgatgaa actgt 205

<210> 41
<211> 269
<212> DNA
<213> Homo sapiens

<400> 41
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ggatcccttc cctccctaag gactcagctg aggggcccct ctgccccctt ctacctccac 120

ctcagcaccc tcccccagct tgatgtttgg gtctccccag caccctcctc cctggccggt 180

gcaaagtaca gggaggtaaa gcaggaccct tgcagacatg ttgcccagca cacagtaggc 240

cctcaataaa agccatttgc actttaaat 269

<210> 42
<211> 169
<212> DNA
<213> Homo sapiens

<400> 42
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tctgtgaaat tctcagagtg tttaattgta ctcaatggta tcattacaat tttctgtaag 120

agaaaatatt acttatttat cctagtattc ctaacctgtc agaataata 169

<210> 43
<211> 234
<212> DNA
<213> Homo sapiens

<400> 43
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ttcagctgtt cgtgccttcc tttcttgtat ccaccaaagt ggagacaaat acatgatttc 120

aaagatacac agtacctact taattccagc tgatgggaga ccaaagaatt tgcaagtgga 180

tggtttggta tcactgtaaa taaaaagagg gcctgggaat tcttgcgatt ccat 234

<210> 44
<211> 168
<212> DNA
<213> Homo sapiens

<400> 44
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tttcctctcc agatattttt gggagtgaca aacattcttt catcctactt agcctaccta 120

gatttttcat gacgagttaa tgcatgtccg tggttgggtg cacctgta 168

<210> 45
<211> 232
<212> DNA
<213> Homo sapiens

<400> 45
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cctgttggaa ttaatttaag cttaagtata tatcaacatt attttattgt gcaattaaaa 120

caatacaaat tcatggtttt ttaaagttaa aaattttaac cactgtaaca acagtttttg 180

tgttattttc tgtattaaac atcttgttgc acgcatttga ggtcatcagg gt 232

<210> 46
<211> 234
<212> DNA
<213> Homo sapiens

<400> 46
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tgattagttt tatttttta tttttacagg cttatcagtc tcactgttgg ctgtcattgt 120

gacaaagtca aataaacccc caaggacgac acacagtatg gatcacatat tgtttgacat 180

taagcttttg ccagaaaatg ttgcatgtgt tttacctcga cttgctaaaa tcga 234

<210> 47

<211> 147
<212> DNA
<213> Homo sapiens

<400> 47
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ggggaggggt ctctcctccc accccaaggc atcaagccct tctccctgca ctcaataaac 120

cctcaatata tattctcatt gtcaatc 147

<210> 48
<211> 149
<212> DNA
<213> Homo sapiens

<400> 48
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ggggaggggt ctctcctccc accccaaggc atcaagccct tctccctgca ctcaataaac 120

cctcaataaa tattctcatt gtcaatcag 149

<210> 49
<211> 152
<212> DNA
<213> Homo sapiens

<400> 49
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ggggaggggt ctctcctccc accccaaggc atcaagccct tctccctgca ctcaataaac 120

cctcaataaa tattctcatt gtcaatcagc aa 152

<210> 50
<211> 150
<212> DNA
<213> Homo sapiens

<400> 50
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aggggagggg tctctcctcc caccccaagg catcaagccc ttctccctgc actcaataaa 120

ccctcaataa atattctcat tgtcaatcag 150

<210> 51
<211> 151
<212> DNA
<213> Homo sapiens

<400> 51
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gggaggggtc tctcctccca ccccaaggca tcaagccctt ctccctgcac tcaataaacc 120

ctcaataaat attctcattg tcaatcagca a 151

<210> 52
<211> 147
<212> DNA
<213> Homo sapiens

<400> 52
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gggaggggtc tctctcccca tcccaagtca tccagccctt ctccctgcac tcatgaaacc 120

ccaataaata tcctcattga caaccag 147

<210> 53
<211> 150
<212> DNA
<213> Homo sapiens

<400> 53
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gggaggggtc tctctcccca tcccaagtca tccagccctt ctccctgcac tcatgaaacc 120

ccaataaata tcctcattga caaccagcaa 150

<210> 54
<211> 254
<212> DNA
<213> Homo sapiens

<400> 54
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tcacgcatga agggagcacc gtggagaaga cagtggcccc tacagaatgt tcataggttc 120

taaaccctca ccccccccac gggagactag agctgcagga tcccagggga ggggtctctc 180

ctcccacccc aaggcatcaa gcccttctcc ctgcactcaa taaaccctca ataaatattc 240

tcattgtcaa tcag 254

<210> 55
<211> 239
<212> DNA
<213> Homo sapiens

<400> 55
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ttccgaagtc actgcagcgg atgatggaac tgaatcgata cggtgttttc tgtccctcct 120

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tctttcttta ataaaattaa gtctttacaa taaaaacaca actgcaaagt accttcata 239

<210> 56
<211> 270
<212> DNA
<213> Homo sapiens

<400> 56
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ttgtaatact tgcatgcttc ttagaccaga acatgtaggt ccccttgtgt ctcaatactt 120

tttttttctt aattgcattt gttggctcta ttttaatttt tttcttttaa aataaacagc 180

tgggaccatc ccaaaagaca agccatgcat acaactttgg tcatgtatct ctgcaaagca 240

tcaaattaaa tgcacgcttt tgtcatgtca 270

<210> 57
<211> 147
<212> DNA
<213> Homo sapiens

<400> 57
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catttgaaac aatccatttt gtaactgaac cttatgaaat atatgtattt catggtacgt 120

attctctagc acagtctgag caattaa 147

<210> 58
<211> 97
<212> DNA
<213> Homo sapiens

<400> 58
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cttttcagaa tgaccctaac gagacacatt tgcccaa 97

<210> 59
<211> 213
<212> DNA
<213> Homo sapiens

<400> 59
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ccaagaaaag tcaaggccct tcatgacctt gctgggcaca gaaaacaccc tcgtggagta 120

cactaatttg aactggactg gtctcagtgt gagcacttgg cacactttac taaacacata 180

tacaacccca ccgtgagtca actttaaagt aaa 213

<210> 60
<211> 151
<212> DNA
<213> Homo sapiens

<400> 60
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atgagtgcta tggtgttgaa aactgcagtg tccgttatga gtgccaaaaa tttgtcttga 120

aggcagctac actttgaagt ggtctttgaa t 151

<210> 61
<211> 116
<212> DNA
<213> Homo sapiens

<400> 61
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ggggtggctg ggcagtcagg gaaggagggt cgcccggatc cgacattttg gagaga 116

<210> 62
<211> 220

<212> DNA
<213> Homo sapiens

<400> 62
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atatgggata tccagatgag aagcaaatca ttggagccaa tatgtaacat actttaaaag 120

tccaaggagc aaaatttgcc tgtccagctc cctctcccca agaaacaaca tgaatgagca 180

acttcagagt gtcaaacaac tgccattaaa cttaactcaa 220

<210> 63
<211> 262
<212> DNA
<213> Homo sapiens

<400> 63
taagaatctc acaggacctc ttagtttttg ccctatacgc cgccttcact ccacagcctc 60

acccctccca cccccatact ggtactgctg taatgagcca agtggcagct aaaagttggg 120

ggtgttctgc ccagtcccgt cattctgggc tagaaggcag gggaccttgg catgtggctg 180

gccacaccaa gcaggaagca caaactcccc caagctgact catcctaact aacagtcacg 240

ccgtgggatg tctctgtcca ca 262

<210> 64
<211> 72
<212> DNA
<213> Homo sapiens

<400> 64
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taacttttc ca 72

<210> 65
<211> 232
<212> DNA
<213> Homo sapiens

<400> 65
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tcagatacat gaacatgttt tacatgggtt gctgtattta gaattataaa catttttcat 120

tattggaaag tgtaacgggg acctttgca tacctgttta gaaccaaaac caccatgaca 180

cagtttttat agtgtctgta tatttgtgat gcaatggtct tgtaaaggtt tt 232

<210> 66
<211> 53
<212> DNA
<213> Homo sapiens

<400> 66
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<210> 67
<211> 76
<212> DNA

<213> Homo sapiens

<400> 67
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aaaattgttc agtcca 76

<210> 68
<211> 132
<212> DNA
<213> Homo sapiens

<400> 68
aaaagttcac agtcaaatgg ggaggggtat ttttcatgca ggagacccca ggccctggag 60

gctgcaacat acctcaatcc tgtcccaggc cggatcctcc tgaagccctt ttcgcagcac 120

tgctatcctc ca 132

<210> 69
<211> 287
<212> DNA
<213> Homo sapiens

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gacttggttg aacttggttg gtccttgtct gcaccctcga caagaccaca ctttgggact 120

tgggagctgg ggctgaagtt gctctgtacc catgaactcc cagtttgcga attatagaga 180

caatctattt tgttacttgc acttgttatt cgaaccactg agagcgagat gggaagcata 240

gatatctata tttttatttt tactatgagg gccttgtaat aaatttc 287

<210> 70
<211> 36
<212> DNA
<213> Homo sapiens

<400> 70
tgggggggca gaggcgtctg accccaggaa cctgca 36

<210> 71
<211> 157
<212> DNA
<213> Homo sapiens

<400> 71
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gggggggcag aggcgtctga ccccaggaac ctgcagggcg gggctgggtc ggtgcccttt 120

aaggacaatt ttgaccttgt tcaacctttc cacaaag 157

<210> 72
<211> 212
<212> DNA
<213> Homo sapiens

<400> 72
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atgagtgcga cggccggcaa gcccccgctc cccaggctct cggggtcgcg cgaggatgct 120

tggcacgtac cccgtgtaca tacttcccgg gcgcccagca tggaaataaa gcacccagcg 180

ctgccctggg cccctgcgca actttcttgt ac 212

<210> 73
<211> 225
<212> DNA
<213> Homo sapiens

<400> 73
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aactgcaagt gatttaaaaa ttagagaata taatttttaa agctattgaa agtttcaacc 120

agaaaacctc aagtgaattt tgtatgtaaa tgaaattttg aatgtaagtt ctgtgattct 180

ttaagcaaac aattagctga aaacttggta ttgttgtagt ttatg 225

<210> 74
<211> 287
<212> DNA
<213> Homo sapiens

<400> 74
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tagaagcaaa caaaatactt ttacccactt aaaaagagaa tataacattt tatgtcacta 120

taatcttttg ttttttaagt tagtgtatat tttgttgtga ttatcttttt gtggtgtgaa 180

taaatctttt atcttgaatg taataagaat ttggtggtgt caattgctta tttgttttcc 240

cacggttgtc cagcaattaa taaaacataa cctttttttac tgcctat 287

<210> 75
<211> 276
<212> DNA
<213> Homo sapiens

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gtattttggt cttaagatga ctttagtaat ttaactgttt atgttaccca cgttgggatc 120

cagttggtct tggtttgctt ctctctgtac cacgtgcaca tgaggtccat tcattttaca 180

gcccctgtta cacacagacc cacaggcagc cgtctgtgcc ccgcacacat tgttggtcct 240

atttgtaaat cccacacccg gtgtatccaa taaagt 276

<210> 76
<211> 222
<212> DNA
<213> Homo sapiens

<400> 76
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agggtaatct gacttctcac ttcctaagtt cccttctata tcctcaaggt agaaatgtct 120

atgtttttta ctccaattca taaatctatt cataagtctt tggtacaagt ttacatgata 180

aaaagaaatg tgatttgtct tcccttcttt gcacttttga aa 222

<210> 77
<211> 182
<212> DNA
<213> Homo sapiens

<400> 77
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aacagataat agcaacttgg gaaatgctta tgttacaggt tacgtgagaa caatcatgta 120

aatctatatg atttcagaaa tgttaaaata gactaacctc taccagcaca ttaaaagtga 180

tt 182

<210> 78
<211> 212
<212> DNA
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<400> 78
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atttgattgg gtgtctgttt ctcgcagcca aaagagcttt gaatgaggaa agtgcttctg 120

tgctaactcc ccgcgtctcc tgaatttcag tcattcatgt acccgcctcg aaatttttgc 180

aatatctgtg taccaactgt ccatttactt aa 212

<210> 79
<211> 238
<212> DNA
<213> Homo sapiens

<400> 79
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atggttcact gcagtcttga ccttttgggc tcaagtgatc ctcccacctc agcctcctga 120

gtagctggga ccataggctc acaacaccac acctggcaaa tttgattttt ttttttttc 180

cagagacggg gtctcgcaac attgcccaga cttcctttgt gttagttaat aaagcttt 238

<210> 80
<211> 262
<212> DNA
<213> Homo sapiens

<400> 80
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tgaacacctt tctgccaccc caagctttgc tctcctcctc tgtgagctct gggcttccca 120

gtttgtttac ccgggaaagt acgtctagat tgtgtggttt gcctcattgt gctatttgcc 180

cactttcctt ccctgaagaa atatctgtga accttctttc tgttcagtcc taaaattcga 240

aataaagtga gactatggtt ca 262

<210> 81
<211> 129
<212> DNA

<213> Homo sapiens

<400> 81
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atatgtatgt atgtgttgtg tacacgatgt tttagtgcta aaaatatgta aaagagctct 120

acttggctt 129

<210> 82
<211> 178
<212> DNA
<213> Homo sapiens

<400> 82
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aacaatataa tattttaaaa tgtataaata attatgaatt tttgtttaga acaaagagga 120

ttactgatat ttgtttccct atgaatggca aaaggtttag cttactactg catttctg 178

<210> 83
<211> 135
<212> DNA
<213> Homo sapiens

<400> 83
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cagtgtttat ttgctggtgt ctcagggatt tgacagtttc cttaatattc ccacacatgg 120

ccgagaaaaa taaat 135

<210> 84
<211> 235
<212> DNA
<213> Homo sapiens

<400> 84
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tgggaagtag ctgcctataa ctgagactag acggaaaagg aatactcgtg tattttaaga 120

tatgaatgtg actcaagact cgaggccgat acgaggctgt gattctgcct ttggatggat 180

gttgctgtac acagatgcta cagacttgta ctaacacacc gtaatttggc atttg 235

<210> 85
<211> 177
<212> DNA
<213> Homo sapiens

<400> 85
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ctttcccatc ctcaaaaaag ggccatttta tgatgcattg cacaccctct ggggaaattg 120

atctttaaat tttgagacag tataaggaaa atctggttgg tgtcttacaa gtgagct 177

<210> 86
<211> 236
<212> DNA
<213> Homo sapiens

<400> 86
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cttttccaac ctgtatcaat ttttacaact ttttttcctga aagcagttta gtccatactt 120

tgcactgaca tacttttttcc ttctgtgcta aggtaaggta tccaccctcg atgcaatcca 180

ccttgtgttt tcttagggtg gaatgtgatg ttcagcagca aacttgcaac agactg 236

<210> 87
<211> 243
<212> DNA
<213> Homo sapiens

<400> 87
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gtggtcttgt tcagaagcag ccagatttcc aatgttgttt ttcccctcca ctcagaaacc 120

cctgcccttt cccttcagaa aacgatggca ggcattcctt tgagtttaca agcagagact 180

cactccaacc caaactagct gggagttcag aaccatggtg gaataaagaa atgtgcatct 240

ggt 243

<210> 88
<211> 221
<212> DNA
<213> Homo sapiens

<400> 88
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tcaaatgtca gcttaaaatt ggtaattgaa tggaagcaaa attataagaa gaggaaatta 120

aagtcttcca ttgcatgtat tgtaaacaga aggagatggg tgattccttc aattcaaaag 180

ctctctttgg aatgaacaat gtgggcgttt gtaaattctg g 221

<210> 89
<211> 273
<212> DNA
<213> Homo sapiens

<400> 89
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gtaatggctg atcctgcatc agcattgtat atatggtctt aagtgcctgg cctccttatc 120

cttcagaata tttattttac ttacaatcct caagttttaa ttgattttaa atatttttca 180

atacaacagt ttaggtttaa gatgaccaat gacaatgacc acctttgcag aaagtaaact 240

gattgaataa ataaatctcc gttttcttca att 273

<210> 90
<211> 225
<212> DNA
<213> Homo sapiens

<400> 90
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cttgaatatt aaaaggttgt aaaaatagtg catgttatgt gatttcaatt ttgtttttta 120

aaatatgggt gtatgcttgt atacgtagag cagataaaaa agacggaagg catactaaaa 180

aatgttgagt ggttatcttt gtatggtgga acaaagtcac tgtaa 225

<210> 91
<211> 182
<212> DNA
<213> Homo sapiens

<400> 91
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aaatcatata ttaagacttt ccaaagatga ggtccctggt ttttcatggc aacttgatca 120

gtaaggattt cacctctgtt tgtaactaaa accatttact atatgttaga catgacattc 180

tt 182

<210> 92
<211> 157
<212> DNA
<213> Homo sapiens

<400> 92
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agagtcaaga attttgttgg attgtgtttg tgtgtgcata tatttgatat catcattata 120

tttgtaatct ttggacttgt aatcatagcc tgtttat 157

<210> 93
<211> 201
<212> DNA
<213> Homo sapiens

<400> 93
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tagctagcct ccccatctca tcacaacgca tgtctgtgac ctttggtaat catttacagt 120

gccacacgga accctgtatt ttgcacacag caaaacaaac aatgtttagc tttatttatg 180

gtatttgatg ctgtaaatgg a 201

<210> 94
<211> 35
<212> DNA
<213> Homo sapiens

<400> 94
atattattgg attatggttc ctgaaggtca ttaaa 35

<210> 95
<211> 249
<212> DNA
<213> Homo sapiens

<400> 95
tctccagagg gcacttcggc tgcctttgct tcctttcatt cgaggcccgg ctcttgctga 60

cagaataggt tccgttttgg gcggtggttc tcgagcctgc cattcaaaac caaagcaaat 120

tggagcattt ctcacaacat ggtattgaag ttccttttg ttctcaaaag ttgtgaccgt 180

gttaaattgt actcccttag tcctgtaagg tatgttaagt gaatcgcagt tacgctgtac 240

ttttattaa 249

<210> 96
<211> 203
<212> DNA
<213> Homosapiens

<400> 96
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ccctttgatg tcttcatctg tatggggtgg aaaaatcacc gggaatcccc cttcagttct 120

ttgaaaaagt tccatgactc gaatatctga aatgaagaaa acaaaccgac tcacaaacct 180

ccaagtagct ccaaatgcaa ttt 203

<210> 97
<211> 73
<212> DNA
<213> Homo sapiens

<400> 97
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tgtattaatc ccc 73

<210> 98
<211> 123
<212> DNA
<213> Homo sapiens

<400> 98
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cgaagtttgt tcatcagact cctgtgcaac tttcccaatg tggcctaaaa atgcaacttc 120

ttt 123

<210> 99
<211> 132
<212> DNA
<213> Homo sapiens

<400> 99
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attataaaaa gtatttgaaa tttgcacatt taattgtccc taatagaaag ccacctattc 120

tttgttggat tt 132

<210> 100
<211> 189
<212> DNA
<213> Homo sapiens

<400> 100
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acccccctccc ccacccacct ctctggcttc catgctccgc ctgtaaaatg ggggcgctat 120

tgcttcagct gctgaaggga gggggctggc tttgagagcc ccaggactgg ctgccccgtg 180

acacatgct 189

<210> 101
<211> 265
<212> DNA
<213> Homo sapiens

<400> 101
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tcccatctgc ctgagccagg gaaggacccc ctcccccacc cacctctctg gcttccatgc 120

tccgcctgta aaatgggggc gctattgctt cagctgctga agggaggggg ctggctttga 180

gagccccagg actggctgcc ccgtgacaca tgctttaaga agctcgtttt ttagacctct 240

tcctggaata aacatctgtg tctgt 265

<210> 102
<211> 174
<212> DNA
<213> Homo sapiens

<400> 102
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aagggtcccc ctgctgactg gagagctggg aatatggcat ttggacactt catttgtaaa 120

tagtgtacat tttaaacatt ggctcgaaac ttcagagata agtcatggag agga 174

<210> 103
<211> 239
<212> DNA
<213> Homo sapiens

<400> 103
gggatacagt tccatattgc cttaaacctc cttgttttag acacactaac atttatacca 60

aattgcagat tattttgcag agagggaatt gcatgtttgt gttgtatatt tagtatgaac 120

ttttttcaga atataatatt ttttagttat caaaagtagt tggaaaacat ttgcaagact 180

atgaacatag aattgctgct tttatatttt aactgcagat tgtgaatttc actgcctta 239

<210> 104
<211> 110
<212> DNA
<213> Homo sapiens

<400> 104
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ttaaaagttt agggttttct cttggttgta gagtggccca gaattgcatt 110

<210> 105
<211> 292
<212> DNA
<213> Homo sapiens

<400> 105
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agaatgaaag ggcccagaga gggtggtgac ctctgcctga agtcacacag tgagtcgagg 120

acagggaggt gaccccaggt ttctatgtgt agggcgggag gatgttttgg gacacagttc 180

aattctcatt tgtcacacac tttggctatt agagatcaac cccttcgctc ctgtgtcttg 240

caatggcagc cttggcaaac gctaaatgaa aatcgtgaca acacttgtgt ta 292

<210> 106
<211> 223
<212> DNA
<213> Homo sapiens

<400> 106
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ccacattgta tatccttcca ccctctggct gcctagatca gtaaataaaa ttgatgtaat 120

ataatttata agtaacactg ttgaaaccct gatcccagtg gaggctgtaa cccacctgcc 180

cccgcaccac ccccctgacc cctgttaccg catttgtgtg tat 223

<210> 107
<211> 275
<212> DNA
<213> Homo sapiens

<400> 107
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agaacataaa tgcacaaaat ctgtacatgt ctcccatcag aaagattcat tggcatgcca 120

caggggattt tcctccttca tcctgtaaag gtcaacaata aaaaccaaat tatggggctg 180

cttttgtcac actagcatag agaatgtgtt gaaatttaac tttgtaagct tgtatgtggt 240

tgttgatctt ttttttcctt acagacaccc ataat 275

<210> 108
<211> 196
<212> DNA
<213> Homo sapiens

<400> 108
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acagtactca ctttttccaa atgatcctag taattgccta gaaatatctt tttcttacct 120

gttatttatc aatttttccc agtattttta tacggaaaaa attgtattga aaacacttag 180

tatgcagttg ataaga 196

<210> 109
<211> 129
<212> DNA
<213> Homo sapiens

<400> 109
gctgcggaga gctcatggaa ggcgagtggg aacccggctg cctgcctttt tttttgatcc 60

agaccctcgg cacctgctac ttaccaactg gaaaatttta tgcatcccat gaagcccaga 120

tacacaaaa 129

<210> 110
<211> 296
<212> DNA
<213> Homo sapiens

<400> 110
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ggccggccgg gtgcttttgg gggctcgtcg gggggacagc tccactttga ctggcacagt 120

ctttgcatgg agacttgagg agggagggct tgaggttggt gaggttaggt gcgtgtttcc 180

tgtgcaagtc aggacatcag tttgattaaa ggtggtgcca atttatttac atttaaactt 240

gtcagggtat aaaatgacat cccattaatt atattgttaa tcaatcacgt gtatag 296

<210> 111
<211> 108
<212> DNA
<213> Homo sapiens

<400> 111
acatgcagta ctgtataccc cccatccctc cctcggtcca ctgaacttca gagcagttcc 60

cattcctgcc ccgcccatct ttttgtgtct cgctgtgata gatcaata 108

<210> 112
<211> 243
<212> DNA
<213> Homo sapiens

<400> 112
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gtgaatcttt taccctgaaa aaaagccata atgaattaag ccagactgac cacttgcttg 120

gagtgtgtgc ttgaaaaaac cagagcaata ctgttgggta ttgtatcagg cttcagtaca 180

aactggtaac accaatgtgg atcctgacag ctttcagttt tagcaaaaat acacgtgaaa 240

tct 243

<210> 113
<211> 52
<212> DNA
<213> Homo sapiens

<400> 113
agtgcaacgt attcaagtcc tcaatatcct gatcataata ccatgctata gg 52

<210> 114
<211> 294
<212> DNA
<213> Homo sapiens

<400> 114
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gttttacccc tattcaagca actagaggcc agaaaatggg caaattatca ctaacaggtc 120

tttgactcag gttccagtag ttcattttaa tgcctagatt cttttgtggt tgttgctggc 180

ccaatgagtc cctagtcaca tcccctgcca gagggagttt ttttttgtg agagacactg 240

taaacgacac aagagaacaa gaataaaaca ataactgtgt gtgttttggc tgag 294

<210> 115
<211> 277
<212> DNA
<213> Homo sapiens

<400> 115
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catggcggtt gtggcagctg gggaggtttg gccccaacag ccctcctgtg cctgcttccc 120

tgtgtgtcgg ggtcctccag ggagctgacc cagaggtgga ggccacggag gcagggtctc 180

tggggactgt cgggggggtac agagggagaa ggctctgcaa gagctccctg gcaatacccc 240

cttgtgtaat tgctttgtgt gcgacaggga ggaagtt 277

<210> 116
<211> 173
<212> DNA
<213> Homo sapiens

<400> 116
ggcttcctac cttgcaacaa aataattgca ccaactcctt agtgccgatt ccgcccccag 60

agagtcctgg agccacagtt ttttttgctt tgcattgtag gagagggaat aagtgctaga 120

gactatgtcg ctttcctgag ctaccgagag cgctcgtgaa ctggaatcaa ctg 173

<210> 117
<211> 217
<212> DNA
<213> Homo sapiens

<400> 117
agaagtggta aaagtggata atcttgtctt gtactttatt ttagaggaaa agctgtcagt 60

ttttcactgc tgaatatgat gttaactatg aacttttttat acatgtattt actatgttga 120

ggtaatttcc ttttactcct ggtttaagtg ttttttgttt ttttttgttt ttttttttt 180

ttaaatcatg gaaggacttg ggttttatca aatgtct 217

<210> 118
<211> 286
<212> DNA
<213> Homo sapiens

<400> 118
actttgccgg cgagcacacc gcctacccgc acggctgggt ggagacggcg gtcaagttgg 60

cgctgcgcgc cgccatcaag atcaacagcc ggaaggggcc tgcatcggac acggccagcc 120

ccgaggggca cgcatttgac atggaggggc aggggcatgt gcatggggtg gccagcagcc 180

cctcgcatga cctggcaaag gaagaaggca gccaccctcc agtccaaggc cagttatctt 240

tccaaaacac gacccacacg aggacctcgc attaaagtat tttcgg 286

<210> 119
<211> 168
<212> DNA
<213> Homo sapiens

<400> 119
catttcatgt ttggcgggca tgtgagtgca caagatggaa agagcgattg gagcatcctg 60

gtataattac ccccattgtg cttttaatgg aaatttcaaa ggacgggagt attttgttgg 120

ttggtgtcca ggtttgtggc actgttccaa gaggccttac acacacac 168

<210> 120
<211> 150
<212> DNA
<213> Homo sapiens

<400> 120
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aggggagggg tctctcctcc caccccaagg catcaagccc ttctccctgc actcaataaa 120

ccctcaataa atattctcat tgtcaatcaa 150

<210> 121
<211> 177
<212> DNA
<213> Homo sapiens

<400> 121
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gtagggtaga aaaagaggga gtcacttgat gctttcaggt taatcagagc tatgggtgct 120

acaggcttgt ctttctaagt gacatattct tatctaattc tcagatcagg ttttgaa 177

<210> 122
<211> 124
<212> DNA
<213> Homo sapiens

<400> 122
ggcagcatac tgagaccctg cctttaaaaa caaacagaac aaaaacaaaa caccagggac 60

acatttctct gtctttttg atcagtgtcc tatacatcga aggtgtgcat atatgttgaa 120

tgac 124

<210> 123
<211> 64
<212> DNA
<213> Homo sapiens

<400> 123
atgttcatag gttctcaacc ctcaccccc accacgggag actagagctc aggatcccag 60

ggga 64

<210> 124
<211> 167
<212> DNA
<213> Homo sapiens

<400> 124
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cctctggagc aggtctggag gggccatggg gcagtcctgg gtgtggggac acagtcgggt 120

tgacccaggg ctgtctccct ccagagcctc cctccggaca atgagtc 167

<210> 125
<211> 36
<212> DNA
<213> Homo sapiens

<400> 125
caccactaaa agatcgcagt ttgcctggtg cagtgg 36

<210> 126
<211> 129
<212> DNA
<213> Homo sapiens

<400> 126
aatgcatatg gaggtaggct gaaaagaatg taatttttat tttctgaaat acagatttga 60

gctatcagac caacaaacct tccccctgaa aagtgagcag caacgtaaaa acgtatgtga 120

agcctctct 129

<210> 127
<211> 150
<212> DNA
<213> Homo sapiens

<400> 127
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aggggagggg tctctcctcc caccccaagg catcaagccc ttctccctgc actcaataaa 120

ccctcaataa atattctcat tgtcaatcaa 150

<210> 128
<211> 83
<212> DNA
<213> Homo sapiens

<400> 128
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gccactggtg ttaagatata ttt 83

<210> 129
<211> 121
<212> DNA
<213> Homo sapiens

<400> 129
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tttcccttaa agatgtcctg ttgctttagt gatatttaga cccctctcag ttaagaaatg 120

c 121

<210> 130
<211> 257
<212> DNA
<213> Homo sapiens

<400> 130
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aaaatattgg ttcacgtaga gtgcaaatta gaactagaaa gttttatacg attatcattt 120

tgagatgtgt taaagtaggt tttcactgta aaatgtatta gtgtttctgc attgccatag 180

ggcctggtta aaactttctc ttaggtttca ggaagactgt cacatacagt aagctttttt 240

ccttctgact tataata 257

<210> 131
<211> 285
<212> DNA
<213> Homo sapiens

<400> 131
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agaccccagg ctggacatgc tgactgtcct ctcccctcca gcctttggcc ttggcttttc 120

tagcctattt acctgcaggc tgagccactc tcttcccttt ccccagcatc actccccaag 180

gaagagccaa tgttttccac ccataatcct ttctgccgac ccctagttcc ctctgctcag 240

ccaagcttgt tatcagcttt cagggccatg gttcacatta gaata 285

<210> 132
<211> 105
<212> DNA
<213> Homo sapiens

<400> 132
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ggggtagaac ttaggaaaaa taaagttggt tcttattcaa tattt 105

<210> 133
<211> 205
<212> DNA
<213> Homo sapiens

<400> 133
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acttctcctc cagggagccc accctgaccc acccccactg cacccctcc ccatgggttc 120

tctccttcct ctgaacttct ttaggagtca ctgcttgtgt ggttcctggg acacttaacc 180

aatgccttct ggtactgcca ttctt 205

<210> 134
<211> 189
<212> DNA
<213> Homo sapiens

<400> 134
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tataaaaagc aaaagtatct atagacacag acacttgcct atacagagac ataaccacac 120

acactcagag gatagtgaac aaatctgtct ttgacttacg acccattttg caagacttaa 180

agccggaag 189

<210> 135
<211> 248
<212> DNA
<213> Homo sapiens

<400> 135
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aatgtttaat tttgcatcat aatttctaca ttgtccctga gtgtcagaac tataatttat 120

tccatttctc tctgtgtctg tgccaagaaa cgcaggctct gggcctgccc cttgcccagg 180

aggccttgcc agcctgtgtg cttgtgggaa caccttgtac ctgagcttac aggtaccaat 240

aaagaggc 248

<210> 136
<211> 99
<212> DNA
<213> Homo sapiens

<400> 136
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tgcacctcat tccaactcct accgcgatac agacccaca 99

<210> 137
<211> 250
<212> DNA
<213> Homo sapiens

<400> 137
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cccaacttcg gatgtggggt caggaggttg aggttcacta ttaacaaatg tcataaatat 120

ctcatagagg tacagtgcca atagatattc aaatgttgca tgttgaccag agggatttta 180

tatctgaaga acatacacta ttaataaata ccttagagaa agattttgac ctggctttag 240

ataaaactgt 250

<210> 138
<211> 55
<212> DNA
<213> Homo sapiens

<400> 138
atactggaaa cctaactgca atgtggatgt tttacccaca tgacttatta tgcat 55

<210> 139
<211> 237
<212> DNA
<213> Homo sapiens

<400> 139
agaagaccca cgtgctaggg gatgaggggc ttcctgggtc ctgttcccta ccccatttgt 60

ggtcacagcc atgaagtcac cgggatgaac ctatccttcc agtggctcgc tccctgtagc 120

tctgcctccc tctccatatc tccttccccc acacctccct ccccacacct ccctactccc 180

ctgggcatct tctggcttga ctggatggaa ggagacttag gaacctacca gttggcc 237

<210> 140
<211> 216
<212> DNA
<213> Homo sapiens

<400> 140
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ccaaaggact cttcttcagc agcatctttg caaaatgtct ttctctcaat gaagagcata 120

tctggacgac tgtgcaatgc tgtgtgctcc cgggatcagt aacccttccg ctgttcctga 180

aataaccttt cataaagtgc tttgggtgcc attcca 216

<210> 141
<211> 156
<212> DNA
<213> Homo sapiens

<400> 141
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ccccaggaaa aggaagaggt cgaaccaacc ctgcggaagg agcatggttt caggagttta 120

ttttaagact gctgggaagg aaacaggccc catttt 156

<210> 142
<211> 151
<212> DNA
<213> Homo sapiens

<400> 142
ctgactctgg gttcgttggg gacatgagat tttatttttt gtgagtgaga ctgagggatc 60

gtagattttt acaatctgta tctttgacaa ttctgggtgc gagtgtgaga gtgtgagcag 120

ggcttgctcc tgccaaccac aattcaatga a 151

<210> 143
<211> 151
<212> DNA
<213> Homo sapiens

<400> 143
gcagaaatat gtaaccttag actcagccag tttcctctgc agctgctaaa actacatgtg 60

gccagctcca ttcttccaca ctgcgtacta catttcctgc ctttttcttt cagtgttttt 120

ctaagactaa ataaatagca aactttcacc t 151

<210> 144
<211> 132
<212> DNA
<213> Homo sapiens

<400> 144

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ccccatccca agtcatccag cccttctccc tgcactcatg aaaccccaat aaatatcctc 120

attgacaacc aa 132

<210> 145
<211> 80
<212> DNA
<213> Homo sapiens

<400> 145
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aacttttgga ttgtaataaa 80

<210> 146
<211> 94
<212> DNA
<213> Homo sapiens

<400> 146
ctgggcttgg gtgcccatat aggaggtctg tatgttcacc aacagtgcgg aggggtcaca 60

cattgcaaaa cactgcccag aacagtaaaa agag 94

<210> 147
<211> 264
<212> DNA
<213> Homo sapiens

<400> 147
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aagacagtga tgaatacaaa gaagattttt ataacaatgt gtaaaatttt tggccaggga 120

aaggaatatt gaagttagat acaattactt acctttgagg gaaataattg ttggtaatga 180

gatgtgatgt ttctcctgcc acctggaaac aaagcattga agtctgcagt tgaaaagccc 240

aacgtctgtg agatccagga aacc 264

<210> 148
<211> 286
<212> DNA
<213> Homo sapiens

<400> 148
taaagacgca tgttatggtg ctaatgtact ttcactttta aactctagat cagaattgtt 60

gacttgcatt cagaacataa atgcacaaaa tctgtacatg tctcccatca gaaagattca 120

ttggcatgcc acaggggatt ctcctccttc atcctgtaaa ggtcaacaat aaaaaccaaa 180

ttatggggct gcttttgtca cactagcata gagaatgtgt tgaaatttaa ctttgtaagc 240

ttgtatgtgg ttgttgatct ttttttttcct tacagacacc cataat 286

<210> 149
<211> 42
<212> DNA
<213> Homo sapiens

<400> 149
ccattcctcg ccctgtcccc acagccgagt cctgcatcag cc 42

<210> 150
<211> 189
<212> DNA
<213> Homo sapiens

<400> 150
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cctttattta tgacgacttt atttattcta atatgatttt atagtattta tatatattgg 120

gtcgtctgct tcccttgtat ttttcttcct ttttttgtaa tattgaaaac gacgatataa 180

ttattataa 189

<210> 151
<211> 211
<212> DNA
<213> Homo sapiens

<400> 151
gtcaggtctt ggtaggtgcc tgcatctgtc tgccttctgg ctgacaatcc tggaaatctg 60

ttctccagaa tccaggccaa aaagttcaca gtcaaatggg gaggggtatt cttcatgcag 120

gagaccccag gccctggagg ctgcaacata cctcaatcct gtcccaggcc ggatcctcct 180

gaagcccttt tcgcagcact gctatcctcc a 211

<210> 152
<211> 211
<212> DNA
<213> Homo sapiens.

<400> 152
gaaaaaactt tctctttgcc atttcttctt cttctttttt aactgaaagc tgaatccttc 60

catttcttct gcacatctac ttgcttaaat tgtgggcaaa agagaaaaag aaggattgat 120

cagagcattg tgcaatacag tttcattaac tccttccccc gctcccccaa aaatttgaat 180

tttttttca acactcttac acctgttatg g 211

<210> 153
<211> 89
<212> DNA
<213> Homo sapiens

<400> 153
tgactgaatt gctgaccctt caagctctgt ccttatccat tacctcaaag cagtcattcc 60

ttagtaaagt ttccaacaaa tagaaatta 89

<210> 154
<211> 162
<212> DNA
<213> Homo sapiens

<400> 154
gcattctcaa gaggtcgtgc caatcagcca ctgaaaggaa aggcatcact atggactttc 60

tctattttaa aatggtaaca atcagaggaa ctataagaac acctttagaa ataaaaatac 120

tgggatcaaa ctggcctgca aaaccatagt cagttaattc tt 162

<210> 155
<211> 86
<212> DNA
<213> Homo sapiens

<400> 155
atcatttcat agtcatttat gtttcatcgg tcctcatgtg tactagtgcg ttattttact 60

tatactcccg gatatcatat tattta 86

<210> 156
<211> 233
<212> DNA
<213> Homo sapiens

<400> 156
gaaacacaag agacttaaag gacaggagga ggagatggcc ataggagagg agggttcctc 60

ttaggtcaga tggaggttct cagagccaag tcctccctct ctactggagt ggaaggtcta 120

ttggccaaca atcctttctg cccacttccc cttccccaat tactattccc tttgacttca 180

gctgcctgaa acagccatgt ccaagttctt cacctctatc caaagaactt gat 233

<210> 157
<211> 146
<212> DNA
<213> Homo sapiens

<400> 157
atgttcatag gttctcaacc ctcaccccca ccacgggaga ctagagctgc aggatcccag 60

gggaggggtc tctcctccca ccccaaggca tcaagccctt ctccctgcac tcaataaacc 120

ctcaataaat attctcattg tcaagg 146

<210> 158
<211> 265
<212> DNA
<213> Homo sapiens

<400> 158
aacaaaatat ttctccccta gtgagagaaa gaggtcctca gagagtagca gctcacataa 60

ctgggaccag aggaagaagc aacacattgt cttctccaaa ctccaagaat gaaaaggctc 120

tgggccgcaa aataaactcc tgggaatcat caaggagtgg gcattcattc ctgagcaact 180

tgcacttgag gaatggtgaa ctggtcatcc atgaaaaagg gttttactac atctattccc 240

aaacatactt tcgatttcag gagga 265

<210> 159
<211> 186
<212> DNA
<213> Homo sapiens

<400> 159
gctgagcaaa gcagactacg agaaacacaa agtctacgcc tgcgaagtca cccatcaggg 60

cctgagctcg cccgtcacaa agagcttcaa caggggagag tgttagaggg agaagtgccc 120

ccacctgctc ctcagttcca gcctgacccc ctcccatcct ttggcctctg acccttttc 180

cacagg 186

<210> 160
<211> 41
<212> DNA
<213> Homo sapiens

<400> 160
tacaagacca cgcctcccgt gctggactcc gacggctcct t 41

<210> 161
<211> 45
<212> DNA
<213> Homo sapiens

<400> 161
aacagaaaag aaactgtaga ccttgggaca atcaacattt aaata 45

<210> 162
<211> 211
<212> DNA
<213> Homo sapiens

<400> 162
gaaaaaactt tctctttgcc atttcttctt cttctttttt aactgaaagc tgaatccttc 60

catttcttct gcacatctac ttgcttaaat tgtgggcaaa agagaaaaag aaggattgat 120

cagagcattg tgcaatacag tttcattaac tccttccctc gctcccccaa aaatttgaat 180

tttttttca acactcttac acctgttatg g 211

<210> 163
<211> 105
<212> DNA
<213> Homo sapiens

<400> 163
ggacctgaag ggtgacatcc caggaggggc ctctgaaatt tcccacaccc cagcgcctgt 60

gctgaggact ccctccatgt ggccccaggt gccaccaata aaaat 105

<210> 164
<211> 175
<212> DNA
<213> Homo sapiens

<400> 164
tcatgatttg tgtagcgtgg aatgtgtttg ctcaatgtga agggttttca ttgctcaatt 60

tctctgtgta agtcttttcc ttaaggtaat aaaccatcag caaagtcaca tactggagtt 120

ggtggctttt tttgtacagg cagttgttat gagacaatga tggagcattg agcat 175

<210> 165
<211> 65
<212> DNA

<213> Homo sapiens

<400> 165
ttaactccat atgtgttcct cttgttttaa ttttgtcaac cagtgcaagt gaccgacaaa 60

attcc 65

<210> 166
<211> 114
<212> DNA
<213> Homo sapiens

<400> 166
aaggagctga cacacggaga gtcacaggct atacagctgc ttcgagcagc gggaatgttt 60

gtcttgggat tagatgctga cgtgtggtga aatgttacag agagcccaga ggaa 114

<210> 167
<211> 100
<212> DNA
<213> Homo sapiens

<400> 167
tgccccccct aaggctagag gtgagcatgt ccctcacaat tgcacatgtc aagccatcag 60

caaggcgcat cacacaaaag gcaccaagac gtgaaacttt 100

<210> 168
<211> 273
<212> DNA
<213> Homo sapiens

<400> 168
gagtctgtga ccgatgcaat tctacagaca gaccagattt tcacagaaaa ggaaaaggag 60

attgaagtgg aatgtgtaaa agctgaatct gcacaggctt cagcaaaaat ggtggaggaa 120

atgcaaataa agtatcagca gatgatggaa gagaaagaga agagttatca agaacatgtg 180

aaacaattga ctgagaagat ggagagggag agggcccagt tgctggaaga gcaagagaag 240

accctcacta gtaaacttca ggtatccaaa tgc 273

<210> 169
<211> 36
<212> DNA
<213> Homo sapiens

<400> 169
agcaggatca agggccggaa ataaaggctg ttgtaa 36

<210> 170
<211> 109
<212> DNA
<213> Homo sapiens

<400> 170
agaattattg catttgagct ccgctcccct tccgaaccaa ggtataaaag taaatcaagc 60

cccttcctcg gggccgagag aattttggaa agtcaagcct tctcttggc 109

<210> 171

<211> 115
<212> DNA
<213> Homo sapiens

<400> 171
gcatgctcag tcttttcctc ttatctacaa tacaaagggt ttgtctgaaa agtctggttt 60

tttttctttt tacaaatgta ccttagctgc atcaacagga gtaagatgta gaaaa 115

<210> 172
<211> 175
<212> DNA
<213> Homo sapiens

<400> 172
atagagagta gatcagcgat tgtgaggagg taggggttaa agaaggattt tactacaaag 60

gtgcaatgca aggaagtttt gggggtgatg aactgtcctg tatcccgatt gtggtggcag 120

ttacatgaat ctatatttgt gttaagatct atagatctgt actccctcaa aaagt 175

<210> 173
<211> 279
<212> DNA
<213> Homo sapiens

<400> 173
gtaggtttgg gagtataacg gtcacccagg gaggggggtga agacggagaa gacttacata 60

gcacggtcag gttagggctg gacagatgag gaagagctag caaaggggggc ttgaggagca 120

gtggccacta agacaggagt gtgacatttt agaagccaaa agaagaccat gtaattcaag 180

ggagaggtat gatttgctgg gtcagatcta aaaataaatc acacgttttt ttaaactgta 240

gtaattaacc actgaaaact tatgagtgat ccaatatta 279

<210> 174
<211> 74
<212> DNA
<213> Homo sapiens

<400> 174
cgatatgact tccatgtaaa cgttcatcca ctctgcctgc ttacaccctg ccctcatgct 60

aatgtaataa actc 74

<210> 175
<211> 48
<212> DNA
<213> Homo sapiens

<400> 175
gccgagatcg tgctagggtg actggagcaa aacccccttca agaaaaga 48

<210> 176
<211> 164
<212> DNA
<213> Homo sapiens

<400> 176
gtgtggatgc taaggtgttt gttttgtttt gtatttttat gtagcgcgtg ggtattgtgc 60

ctagaaatga agtcattatt agggatttaa atatgcaact catggagtgg atgagaccag 120

ctagaaagat aatagagtgt gaagaggaga tcggaaattc aata 164

<210> 177
<211> 34
<212> DNA
<213> Homo sapiens

<400> 177
attccaggac tttggcgcct tcaccgggag catg 34

<210> 178
<211> 32
<212> DNA
<213> Homo sapiens

<400> 178
cacaaagctc tgtcaataag tgatacatgt tt 32

<210> 179
<211> 141
<212> DNA
<213> Homo sapiens

<400> 179
atttttgcct ttccgtttct gtctatgatg taggcttctg aggagaacca agaagcttgg 60

ctttagtggt agaatgacag aacttaggga tcccttgcag gctagaacaa agttctgacc 120

cttagaccaa atctttatgt t 141

<210> 180
<211> 211
<212> DNA
<213> Homo sapiens

<400> 180
gtttgtgtgg gaactttgca agtcagtttc cctgtatgaa gtgatggaga gagtgattaa 60

gatactgagc tttctctgtg ttcttgccgt taaccattgc cggtttgtgg gagattaaga 120

agtcgatgcg ttttatggag aattaattta ttttgatata gacagatgga cgggtcatga 180

aaatttgttg acatacttta ctaaactgct a 211

<210> 181
<211> 127
<212> DNA
<213> Homo sapiens

<400> 181
ttttttagtt gccaacagtt gtatttttgc tgattattta tgaccttaaa taatatattt 60

tttttttaa gaagacattt tgttacataa ggaaaacttt tttattcaat ggaataaatt 120

atggcat 127

<210> 182
<211> 251
<212> DNA
<213> Homo sapiens

<400> 182
gaacaggagc aactactaaa agagggattt caaaaagaaa gcagaataat gaaaaatgag 60

atacaggatc tccagacgaa aatgagacga cgaaaggcat gtaccataag ctaaagacca 120

gagccttcct gtcaccccta accaaggcat aattgaaaca attttagaat ttggaacaag 180

cgtcactaca tttgataata attagatctt gcatcataac accaaaagtt tataaaggca 240

tgtggtacaa t 251

<210> 183
<211> 248
<212> DNA
<213> Homo sapiens

<400> 183
gcaagcacac gcagaaggca cacagggaca ggacgcccca tggagccccg aattgaccct 60

cactgcctcc aaagcccaga gcctgcctgt cagcccagct ggagggcccg aggctgcagg 120

gtgtcctccc acagtcccgc tgtttcctgt gcattcgtga cccgcttccc tcccaccctg 180

tctcctgtct ccatcgttgg attatctttg aacccccttg tgtggatcat tttgagccgc 240

ctggcctt 248

<210> 184
<211> 71
<212> DNA
<213> Homo sapiens

<400> 184
tattgcccgg ctcctagaat ttatttattt cctgacttac agcaagcgag ttatcgtctt 60

ctgtattttg t 71

<210> 185
<211> 163
<212> DNA
<213> Homo sapiens

<400> 185
ctttcattgg aagttcatca ctgttaggcg ttatcttgag tattataaca aagcaaatcc 60

acaagtattc aatataagat taggaaaaaa attcctgcga tactttgttg tcaaacactt 120

gccactgata gacgttattt tagcttttaa ggcctgtcac att 163

<210> 186
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (61)..(61)
<223> n is a, c, g, or t

<400> 186
atggagtata agctgtttgt agtcaggcct ggagtaatga gggtacctaa atactgaagg 60

natttttatg cagattgact gaaacctgaa tcaaattgga aggagagggc tgaattttga 120

tagactggaa gtattagaga attttctata ctttgactca aggaatggtc aacttttagg 180

aaaagcaact atattatgtc tgttaagatc atagaatctt aacctgaaag ggaccttgga 240

gactatttag tacaactc 258

<210> 187
<211> 89
<212> DNA
<213> Homo sapiens

<400> 187
ttttgaatga actctgagtc agttgaaata gggtaccatc taggtcagtt taagaagagt 60

cagctcagag aaagcaagca taagggaaa 89

<210> 188
<211> 193
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (120)..(125)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (127)..(127)
<223> n is a, c, g, or t

<400> 188
gaagaaagct aactcagtac actaagagtg atttacatgc ctgcaaataa tttgtgtctg 60

gggtcttgac cctccccaaa tgccttgtta tttatatctc tgcttttaga taacagatgn 120

nnnnntntct atgggcttgt accggcagag gcaacagcag gtccttaaga ctccccaggt 180

gccatgatga aaa 193

<210> 189
<211> 173
<212> DNA
<213> Homo sapiens

<400> 189
gtaccatctt acatgcttaa ataactccac atttatttgt gtttattact ctgtgttata 60

aatatacatt tgttggtctc tctcttggat tattttgttt ctttgtcctg taactaccac 120

tgaaagggtg caatacagct ttcttgaaat gtgtattgaa cggatgaatg tat 173

<210> 190
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (41)..(41)

<223> n is a, c, g, or t

<400> 190
gattcggagt cttgattttg caaaggtaac aaaagacatg ntttttttata agacttttca 60

tcataagttt attttattca acagaagcaa aatctaatat aatggaaaaa ataaagatct 120

gtgataaatc tgatctgtgt ggataaacac aattagaaag atttaaagat taagtattga 180

aacaaactac caaaatattt taatactgat ttgtaaaaat ttcagtacat ttttcttctt 240

tgcttaattc tactgggtcc tgttt 265

<210> 191
<211> 217
<212> DNA
<213> Homo sapiens

<400> 191
gttcccagtg acacttcaga gagctggtag ttagtagcat gttgagccag gcctgggtct 60

gtgtctcttt tctctttctc cttagtcttc tcatagcatt aactaatcta ttgggttcat 120

tattggaatt aacctggtgc tggatatttt caaattgtat ctagtgcagc tgattttaac 180

aataactact gtgttcctgg caatagtgtg ttctgat 217

<210> 192
<211> 168
<212> DNA
<213> Homo sapiens

<400> 192
gatacactat acaatcctat gaccaatctc atctacaact ttattcaaat tttatagagg 60

ctgaggtgga aggatcactt gagtttgaaa ccagcctggg caacatagtg agaccccgtc 120

tctacaaaaa gtaggaaaaa aaaaatagcg aggtgttgtg gtacacgc 168

<210> 193
<211> 115
<212> DNA
<213> Homo sapiens

<400> 193
ttctagtaat tatcaattgt cctggtctgg ctgcttagag tatcagtttg ctcaaaattg 60

cttgaatcat taaagcaaat actaattgtg agcattgacc agatcttaag ttaaa 115

<210> 194
<211> 193
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (147)..(147)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (164)..(164)
<223> n is a, c, g, or t

<400> 194
tgtctatggc tgtttttgtg caaaatggca gagttgggtt cagagttagc aacagagagc 60

ttgtagcctg caagcctaga gtatttacta tctggatttc tacaaaaaaa aaaaaaaaaa 120

aatttggggg gggcccgtaa cccaatncgc ccctatagtg agtngtatta caatccacct 180

ggccgcgttt tac 193

<210> 195
<211> 233
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (35)..(35)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (53)..(53)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (60)..(60)
<223> n is a, c, g, or t

<400> 195
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tagaagaagg gacaaatgca atccgacctt tggatctaca cattcctctt gcttcaatgg 120

gtgtcattta agaattagag gaaaatatta ggagatggag aactagagtt gaggaaacca 180

aaagaagagg agtcacagaa aaccagctct ctctgtgcaa ggcatcttga aag 233

<210> 196
<211> 139
<212> DNA
<213> Homo sapiens

<400> 196
caatattaaa aaaggctctg tatgcatggt ggggctatgt aagtactctt taaaactatg 60

gccctattaa tcttacaagt gttacttatg ggtcaagcaa tgtaaactgt ataaatgtaa 120

aaacaacccc tccacacac 139

<210> 197
<211> 178
<212> DNA
<213> Homo sapiens

<400> 197
ctttggatag aggtgaagaa cttggacatg gctgtttcag gcagctgaag tcaaagggaa 60

tagtaattgg ggaaggggaa gtgggcagaa aggattgttg gccaatatac cttccactcc 120

agtagagagg gaggacttgg ctctgagaac ctccatctga cctaagagga accctcct 178

<210> 198
<211> 163
<212> DNA
<213> Homo sapiens

<400> 198
ctgcaaaagc cgagatgggt tccatgcagt tctccagtgg gacatcagtg cttatccgaa 60

tgtcatcaat ggcaatctct ccggaacgtc ctttccctat cactccctcg aacacaatct 120

ggtactccat gtcgtagctg ggcaggatga tccgcccgtg ctt 163

<210> 199
<211> 104
<212> DNA
<213> Homo sapiens

<400> 199
ttcagcaagg actggtcttt ctatctcttg tactacactg aattcacccc cactgaaaaa 60

gatgagtatg cctgccgtgt gaaccatgtg actttgtcac agcc 104

<210> 200
<211> 222
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (93)..(93)
<223> n is a, c, g, or t

<400> 200
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taagaagtat aataaccttt tcaaaaccca cantgcagct tagttttcct ttatttattt 120

gtggtcatga agactatccc catttctcca taaaatcctc cctccatact gctgcattat 180

ggcacaaaag actctaagtg ccaccagaca gaaggaccag ag 222

<210> 201
<211> 267
<212> DNA
<213> Homo sapiens

<400> 201
ttgctttgta tgcactttgt ttttttcttt gggtcttgtt ttttttttcc acttagaaat 60

tgcatttcct gacagaagga ctcaggttgt ctgaagtcac tgcacagtgc atctcagccc 120

acatagtgat ggttcccctg ttcactctac ttagcatgtc cctaccgagt ctcttctcca 180

ctggatggag gaaaaccaag ccgtggcttc ccgctcagcc ctccctgccc ctcccttcaa 240

ccattcccca tgggaaatgt caacaag 267

<210> 202
<211> 108
<212> DNA
<213> Homo sapiens

<400> 202

ggtggaagac cagtaattgc tggaagactg gatttgctgg aagacttgat ttactggaag 60

acttggagct tcttggaaga catggattgt ccggaagaca tggattgt 108

<210> 203
<211> 209
<212> DNA
<213> Homo sapiens

<400> 203
tgggagccgt cttcccagtc caccgtcccc atcgtgggca ttgttgctgg cctggctgtc 60

ctagcagttg tggtcatcgg agctgtggtc gctgctgtga tgtgtaggag gaagagctca 120

ggtggaaaag gagggagcta ctctcaggct gcgtgcagcg acagtgccca gggctctgat 180

gtgtctctca cagcttgaaa agcctgaga 209

<210> 204
<211> 146
<212> DNA
<213> Homo sapiens

<400> 204
gctttgatat ttcaatgtta gcctcaattt ctgaacacca taggtagaat gtaaagcttg 60

tctgatcgtt caaagcatga aatggatact tatatggaaa ttctgctcag atagaatgac 120

agtccgtcaa aacagattgt ttgcaa 146

<210> 205
<211> 48
<212> DNA
<213> Homo sapiens

<400> 205
agtgccaaag gatcttcccc ctgacacaac tctgctagac ctgcaaaa 48

<210> 206
<211> 150
<212> DNA
<213> Homo sapiens

<400> 206
gtgtcatgta agattactgc ttgcctctct aaggaaggtc gtgactgttt aaatagacgg 60

gcaaggtgga acctttttgaa agatgagctt ttgaatataa gttgtctgct agatcatggt 120

ttgtattgaa ctaacaaggt ttgcagatct 150

<210> 207
<211> 186
<212> DNA
<213> Homo sapiens

<400> 207
tattcctgca ccaactgacc tgaagttcac tcaggtcaca cccacaagcc tgagcgccca 60

gtggacacca cccaatgttc agctcactgg atatcgagtg cgggtgaccc ccaaggagaa 120

gaccggacca atgaaagaag tcaaccttgc tcctgacagc tcatccgtgg ttgtatcagg 180

acttat 186

<210> 208
<211> 276
<212> DNA
<213> Homo sapiens

<400> 208
aacaatgtca gattttaact atgaaaacga cattaccttg tgcattttta tattgattcc 60

tatttttttt ttaagattaa agtttaaatg ttttccacta gtcatttcac ttctaacttg 120

gtataggaag cttagctctc tacataccta tcatgtgccc tgtatcacag aagattcagg 180

aaaaatgcac ttgggaatca aagaaaatgg aacttctttt tgaaaagaca agcaaccatg 240

ttaactgtat tgacacatcc tcaataaaac ctgttg 276

<210> 209
<211> 158
<212> DNA
<213> Homo sapiens

<400> 209
tttgcattcc tgataattgt atgtattgta taaagaacgt ctgtacattg ggttataaca 60

ctagtatatt taaacttaca ggcttatttg taatgtaaac caccatttta atgtactgta 120

attaacatgg ttataatacg tacaatcctt ccctcatc 158

<210> 210
<211> 225
<212> DNA
<213> Homo sapiens

<400> 210
tagaggcttc ttagattctc ccagcatccg cctttccctt tagccagtct gctgtcctga 60

aacccagaag tgatggagag aaaccaacaa gagatctcga accctgtcta gaaggaatgt 120

atttgttgct aaatttcgta gcactgttta cagttttcct ccatgttatt tatgaatttt 180

atattccgtg aatgtatatt gtcttgtaat gttgcataat gttca 225

<210> 211
<211> 174
<212> DNA
<213> Homo sapiens

<400> 211
gatcagcaaa caggaatacg atgaagccgg gccttccatt gtccaccgca aatgcttcta 60

aaacactttc ctgctcctct ctgtctctag cacacaactg tgaatgtcct gtggaattat 120

gccttcagtt cttttccaaa tcattcctag ccaaagctct gactcgttac ctat 174

<210> 212
<211> 168
<212> DNA
<213> Homo sapiens

<400> 212
atattttaca gggtggagtg tactatatac tattaccttt gaatgtgttt gcagagctag 60

tggatgtgtt tgtctacaag tatgattgct gttacataac accccaaatt aactcccaaa 120

ttaaaacaca gttgtgctgt caatacctca tactgcttta ccttttt 168

<210> 213
<211> 165
<212> DNA
<213> Homo sapiens

<400> 213
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cttcactttt ctctacagtg ttgttttgtt gttgttggtt tttatttttt atactttggc 120

cataccacag agctagattg cccaggtctg ggctgaataa aacaa 165

<210> 214
<211> 208
<212> DNA
<213> Homo sapiens

<400> 214
ccaaacactg acattaccta cacttccact acccaaagac aaaatgtgcc cactgtgtgc 60

ttttgagtgt attttctttt agtttgtttt ttgttgggtg catatttatg ataataacaa 120

tgatggactt caattgtact cactgttcta ttgttggttt taattagcag caagttgtga 180

tcactttccc aggtgaataa atcatttc 208

<210> 215
<211> 245
<212> DNA
<213> Homo sapiens

<400> 215
agatgctgtg taactaaact gaaataattc aattacttat tatttagaat gttaaagctt 60

atgatagtct tttctaattc ttaacactca tacttgaaat ctttccgagt ttccccagaa 120

gagaatatgg gatttttttt gacatttttg acccatttaa taatgctctt gtgtttacct 180

agtatatgta gactttgtct tatgtgtcaa aagtcctagg aaagtggttg atgtttctta 240

tagca 245

<210> 216
<211> 257
<212> DNA
<213> Homo sapiens

<400> 216
ttgttactgc tgattcttgt aaatcttttt gcttctactt tcatcttaaa ctaatacgtg 60

ccagatataa ctgtcttgtt tcagtgagag acgccctatt tctatgtcat ttttaatgta 120

tctatttgta caatttttaaa gttcttattt tagtatacgt ataaatatca gtattctgac 180

atgtaagaaa atgttacggc atcacactta tattttatga acattgtact gttgctttaa 240

tatgagcttc aatataa 257

<210> 217

<211> 174
<212> DNA
<213> Homo sapiens

<400> 217
tttcaaatcc ttcatcatgt cagttccaat gaggtgggga tggagaagac aattgttgct 60

tatgaaagaa agctttagct gtctctgttt tgtaagcttt aagcgcaaca tttcttggtt 120

ccaataaagc attttacaag atcttgcatg ctactcttag atagaagatg ggaa 174

<210> 218
<211> 191
<212> DNA
<213> Homo sapiens

<400> 218
taggtggtag atattgaggc caagaatatt gcaaaatata tgaagcttca tgcacttaaa 60

gaagtatttt tagaataaga atttgcatac ttacctagtg aaacttttct agaattattt 120

ttcactctaa gtcatgtatg tttctctttg attatttgca tgttatgttt aataagctac 180

tagcaaaata a 191

<210> 219
<211> 116
<212> DNA
<213> Homo sapiens

<400> 219
tgctgtgaaa gaggctggct acacaatcga atggtttgag gtgatctcgc aaagttattc 60

ttccaccatg gccaacaacg aaggactttt ctccctggtg gcgaggaagc tgagca 116

<210> 220
<211> 181
<212> DNA
<213> Homo sapiens

<400> 220
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tattcccaat taaaagtatg cagattattt gcccaaatct tcttcagatt cagcatttgt 120

tctttgccag tctcattttc atcttcttcc atggttccac agaagctttg tttcttgggc 180

a 181

<210> 221
<211> 248
<212> DNA
<213> Homo sapiens

<400> 221
tgttttcaaa ttgccattgc tactattgct tgtcggtgtt attttatttt attgtttttg 60

actttggaag agatgaactg tgtatttaac ttaagctatt gctcttaaaa ccagggagtc 120

agaatatatt tgtaagttaa atcattggtg ctaataataa atgtggattt tgtattaaaa 180

tatatagaag caatttctgt ttacatgtcc ttgctacttt taaaaacttg catttattcc 240

tcagattt 248

<210> 222
<211> 227
<212> DNA
<213> Homo sapiens

<400> 222
tatttgaact atatgttgaa gacatctacc agtttctcca aatgcctttt ttaaaactca 60

tcacagaaga ttggtgaaaa tgctgagtat gacacttttc ttcttgcatg catgtcagct 120

acataaacag ttttgtacaa tgaaaattac taatttgttt gacattccat gttaaactac 180

ggtcatgttc agcttcattg catgtaatgt agacctagtc catcaga 227

<210> 223
<211> 194
<212> DNA
<213> Homo sapiens

<400> 223
gaagtttaat tcatagtaat ttcactctct gcattgactt atgagataat taatgattaa 60

actattaatg ataaaaataa tgcatttgta ttgttcataa tatcatgtgc acttcaagaa 120

aatggaatgc tactcttttg tggtttacgt gtattatttt caatatctta ataccctaat 180

aaagagtcca taaa 194

<210> 224
<211> 217
<212> DNA
<213> Homo sapiens

<400> 224
tgattagccc caagtagaaa gtcctgtggt tttatgttta atggtaatag ttgatcatat 60

atggcataat tttctatcag cttcctactc agtcactata aacacagact tgaaatagta 120

ctttaaatgt ccaaatacct aaatgtgcta aactggaggt aactatttct aggtagttga 180

atttttgaaa gtcatgatca gccacacaac tgttttg 217

<210> 225
<211> 293
<212> DNA
<213> Homo sapiens

<400> 225
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caaggcataa taaaacccga ggtagcaaat gaaaattaaa gcatttattt tggtagttct 120

tcaataatga tgcgagaaac tgaattccat ccagtagaag catctccttt tgggtaatct 180

gaacaagtgc caacccagat agcaacatcc actaatccag caccaattcc ttcacaaagt 240

ccttccacag aagaagtgcg atgaatatta attgttgaat tcatttcagg gct 293

<210> 226
<211> 95
<212> DNA
<213> Homo sapiens

<400> 226
ctgtcaggaa ctcctcactg tttaaatatt tatttattgt gacaaatgga gctggtttcc 60

tagatatgaa tgatgtttgc aatccccatt ttcct 95

<210> 227
<211> 210
<212> DNA
<213> Homo sapiens

<400> 227
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tgcctcgggg agcacttgga agggaaattg cagttctgtt gaaatagagg aaaatccctt 120

ggtaaagaca cagcctgtta ggctcgtgtg ggcctccagt atgttcacca ggggaatggc 180

tgggatttct cggcactctg catcatccat 210

<210> 228
<211> 243
<212> DNA
<213> Homo sapiens

<400> 228
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cccacttaaa aagagaatat aacattttat gtcactataa tcttttgttt tttaagttag 120

tgtatatttt gttgtgatta tcttttttgtg gtgtgaataa atcttttatc ttgaatgtaa 180

taagaatttg gtggtgtcaa ttgcttattt gttttcccac ggttgtccag caattaataa 240

aac 243

<210> 229
<211> 37
<212> DNA
<213> Homo sapiens

<400> 229
gatgcttaac aaaggttacc ataagccaca aattcat 37

<210> 230
<211> 264
<212> DNA
<213> Homo sapiens

<400> 230
aatgcaaact atcactgtat tttaatattt gttattctct catgaataga aatttatgta 60

gaagcaaaca aaatactttt acccacttaa aaagagaata taacatttta tgtcactata 120

atcttttgtt ttttaagtta gtgtatattt tgttgtgatt atcttttttgt ggtgtgaata 180

aatcttttat cttgaatgta ataagaattt ggtggtgtca attgcttatt tgttttccca 240

cggttgtcca gcaattaata aaac 264

<210> 231
<211> 269
<212> DNA

<213> Homo sapiens

<400> 231
gcttatttga caacgtttca gcgactccgt tggccactcc gagaggtggg ccagtctgtg 60

gatcagagat gcaccaccaa gccaagggaa cctgtgtccg gtattcgata ctgcgacttt 120

ctgcctggag tgtatgactg cacatgactc gggggtgggg aaaggggtcg gctgaccatg 180

ctcatctgct ggtccgtggg acggtgccca agccagaggc tgggttcatt tgtgtaacga 240

caataaacgg tacttgtcat ttcgggcaa 269

<210> 232
<211> 179
<212> DNA
<213> Homo sapiens

<400> 232
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tattattctg cagcatgacc tgtgaccagc actgtctcag tttcactttc acatagatgt 120

ccctttcttg gccagttatc ccttcctttt agcctagttc atccaatcct cactgggtg 179

<210> 233
<211> 220
<212> DNA
<213> Homo sapiens

<400> 233
ctgtatcact gccttcgttt atatttttt aactgtgata atccccacag gcacattaac 60

tgttgcactt ttgaatgtcc aaaatttata ttttagaaat aataaaaaga aagatactta 120

catgttccca aaacaatggt gtggtgaatg tgtgagaaaa actaacttga tagggtctac 180

caatacaaaa tgtattacga atgcccctgt tcatgttttt 220

<210> 234
<211> 127
<212> DNA
<213> Homo sapiens

<400> 234
gggcccctaa tatcccagtt taatattcca ataccctaga agaaaacccg agggacagca 60

gattccacag gacacgaagg ctgcccctgt aaggtttcaa tgcatacaat aaaagagctt 120

tatccct 127

<210> 235
<211> 225
<212> DNA
<213> Homo sapiens

<400> 235
cccaaacctg tactgtcccg gaggaggttg ggaggtggag gcccagcatc ccgcgcagat 60

gacaccatca accgccagag tcccagacac cggttttcct agaagcccct caccccact 120

ggcccactgg tggctaggtc tccccttatc cttctggtcc agcgcaagga ggggctgctt 180

ctgaggtcgg tggctgtctt tccattaaag aaacaccgtg caacg 225

<210> 236
<211> 41
<212> DNA
<213> Homo sapiens

<400> 236
ttaatctatg tgcaccgttg ggaccaatgc cttaattaaa g 41

<210> 237
<211> 160
<212> DNA
<213> Homo sapiens

<400> 237
cttctcactg gacagcacta gttttttgcc tgggaagtcg tggacagtaa cagtgactgg 60

aacatcccct tgcgcgtcgt gggcctccag caccatggtc tcctcgctct ccagccgcaa 120

gatgttgggg gtgatgatag agtacatggg actccccaga 160

<210> 238
<211> 179
<212> DNA
<213> Homo sapiens

<400> 238
gggtcagcac agtcttctca ctggacagca ctagtttttt gcctgggaag tcgtggacag 60

taacagtgac tggaacatcc ccttgcgcgt cgtgggcctc cagcaccatg gtctcctcgc 120

tctccagccg caagatgttg ggggtgatga tagagtacat gggactcccc agagccagg 179

<210> 239
<211> 164
<212> DNA
<213> Homo sapiens

<400> 239
gtagtgagtt ttccttggtc ggcgtttggc tgagaaggct gcaactggcc tgagacgagt 60

ctggtcccga cgatgctgtg ctctgcctcc tcctgctgct gctgacaacc aagccctccc 120

agaatttaaa tgctgctgca gacatcctcc accaacacag ggag 164

<210> 240
<211> 167
<212> DNA
<213> Homo sapiens

<400> 240
aagaaggaat gatcactctt ggagaggaag ctggtctcag aaacaccttc tgtgactgag 60

tgcccattgc tcagccatgt gatgttgacc acaggaggaa agatgttgtc cacaagacag 120

atgaggatgt tgggctgacc cagtgtcacg ggagacttgg aaaacac 167

<210> 241
<211> 183
<212> DNA
<213> Homo sapiens

<400> 241
ggattataat atcctcactg gccacaatct gtaaaagtcg atactggcac ttttttgcc 60

ccctcaaagg aaatatgcta atagacagcc cctttgcaaa tataattcct ccttcccaac 120

ccttcaaatt gctaaggccc cactggtcag caccttccct ttcgagtcca ggactactgt 180

tct 183

<210> 242
<211> 237
<212> DNA
<213> Homo sapiens

<400> 242
acaaaagctc ccctgatcca actagcacac tgtcaaatac agtgtcatat gagaggtcca 60

cagacggtag tttccaagac cgtttcaggg aattcgagga ttccacctta aaacctaaca 120

gaaaaaaacc cactgaaaat attatcatag acctggacaa agaggacaag gatttaatat 180

tgacaattac agagagtacc atccttgaaa ttctacctga gctgacatcg gataaaa 237

<210> 243
<211> 197
<212> DNA
<213> Homo sapiens

<400> 243
agtgctaagg agtatagcag atgacttata tgtgtgttgg ctgggagaat atcatcttaa 60

agtgagagtg atgttgtgga gacagttgaa atgtcagtgc tagagcctct gtggtgtgaa 120

tgggcacgtt aggttgttgc attagaaagt gactgtttct gacagaaatt tgtagctttg 180

tgcaaactca cccacca 197

<210> 244
<211> 131
<212> DNA
<213> Homo sapiens

<400> 244
ctacttcccc gaaccggtga cggtgtcgtg gaactcaggc gccctgacca gcggcgtgca 60

caccttcccg gctgtcctac agtcctcagg actctactcc ctcagcagcg tggtgaccgt 120

gccctccagc a 131

<210> 245
<211> 95
<212> DNA
<213> Homo sapiens

<400> 245
ccagacctac acctgcaacg tagatcacaa gcccagcaac accaaagtgg acaagacagt 60

tgagcgcaaa tgttgtgtcg agtgcccacc gtgcc 95

<210> 246
<211> 131
<212> DNA
<213> Homo sapiens

<400> 246
gtaatttgtg attgtcgagg aagaggtgtg gctgttggtg tgatagtaat actgctggtg 60

actttattgg ttgttttgtt tagtgccccg ttaattaagc cttgagttcg gttatcctgc 120

agtggtgctg a 131

<210> 247
<211> 38
<212> DNA
<213> Homo sapiens

<400> 247
tttcccccac tgtctggaca ctggtgaatg acattaga 38

<210> 248
<211> 173
<212> DNA
<213> Homo sapiens

<400> 248
gaaggagaac gaatccagtg gaaagaaagc tggtgaggga aaagatgccc tgcagaaaag 60

tccccttttcc cccactgtct ggacactggt gaatgacatt agaagagacc caccccattc 120

aagtcccctc actggctcct tttctcccca ctacaccact tccaaaatct gaa 173

<210> 249
<211> 298
<212> DNA
<213> Homo sapiens

<400> 249
tgactttgtc acaatgacag ccaacagtga gactgataag cctgtaaaaa taaaaaaata 60

agactaatca aatagacatg gcattttaat ctcaaagtgc aaaatcatct aactgaaaat 120

gacggcattg aaaaattcca gtggttaaaa atgaatcaaa acttcattac gcaggcagtg 180

gaagtgtgtt gaaagattta ccaggggtgt caagttttag acactcagaa aggcaccatt 240

ctagccatct tgattggata acatgtatat acttatgtcc ctacgatatt caaaagat 298

<210> 250
<211> 145
<212> DNA
<213> Homo sapiens

<400> 250
gataccgact gaccgtgggc cttacccgaa gaggacagcc catgcagtac aatgtgggtc 60

cctctgtctt caagtaccca ctgaggaatc tgcagcctgc atctgagtac accgtattcc 120

tcgtggccat aaagggcaac caaga 145

<210> 251
<211> 111
<212> DNA
<213> Homo sapiens

<400> 251
ttaagacatt ggagtgattt ctggaaatgt tttctttaag aaggctcacg tgatgtttgt 60

gtttacttgt ggttgcccta tcctatgctg cataaatcct tgaaaggaaa g 111

<210> 252
<211> 137
<212> DNA
<213> Homo sapiens

<400> 252
ttaagacatt ggagtgattt ctggaaatgt tttctttaag aaggctcacg tgatgtttgt 60

gtttacttgt ggttgcccta tcctatgctg cataaatcct tgaaaggaaa ggttttagtt 120

agttgctttc tttcttc 137

<210> 253
<211> 203
<212> DNA
<213> Homo sapiens

<400> 253
tttttctttg ggctactgta ccctgcttcc agtgctgacc ccggcataag tccatctctg 60

cagaagccat ttcaggagta cctggaggct caacggcaca agcttcacca caaaagcgaa 120

atggacacac cacaggtaag actttaatcc ggtttcttct ccccctctggg aagtttcggg 180

ctgaaattac attcacagct ctc 203

<210> 254
<211> 243
<212> DNA
<213> Homo sapiens

<400> 254
ttcctgcttt tcttcccaaa tgtgtctttt tctttgggct actgtaccct gcttccagtg 60

ctgaccccgg cataagtcca tctctgcaga agccatttca ggagtacctg gaggctcaac 120

ggcacaagct tcaccacaaa agcgaaatgg acacaccaca ggtaagactt taatccggtt 180

tcttctcccc tctgggaagt ttcgggctga aattacattc acagctctca ctcacatttt 240

tag 243

<210> 255
<211> 292
<212> DNA
<213> Homo sapiens

<400> 255
cgcggtctga gtctcgtttg gaagctcgag gcataggaca gtctctgcct gggtagggaa 60

tgcagttagc tgaggaacca cggtaggttt taaaaaaaaa gactcgggga gagaaatagc 120

acattattta catgactgga caaggacaga aggtgggagg aagcccctgt cactccttgg 180

gacctgggat ctgagcacaa agctgagtgg gaaacagtgg gggctccgaa gcgcccagca 240

gggccagcgc cctcctttct agaccccgac tgcccttggt cttctgccct tt 292

<210> 256
<211> 156

<212> DNA
<213> Homo sapiens

<400> 256
ctgagtaaat gggactgctg tcgttggatg gcactgcgca gctcaggggt gggctctggg 60

aggcggaggc ggaggaggcc gctggagatg gtgctgagga cgaggaggcc ggtgggttgg 120

tcatgctcac taggccactg accaagctga agaggg 156

<210> 257
<211> 249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (142)..(142)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (188)..(188)
<223> n is a, c, g, or t

<400> 257
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atacagaact cattcaatca tataaaaata aacacaaatt tacattgact catcaactat 120

acaatttaaa aaggcacttg anaggggtat tgtattattg catttgtggt atgcatttga 180

aatagttnta agtacattaa tgaaatttgt aagaattcct cttttgcact tattcccatc 240

tttaattaa 249

<210> 258
<211> 62
<212> DNA
<213> Homo sapiens

<400> 258
gtccccaaat gacccacatg attcaaagtg caaatttact ccaacctgca agagaaaacg 60

aa 62

<210> 259
<211> 126
<212> DNA
<213> Homo sapiens

<400> 259
actagtctca gtaatacatt agtaaaaatc atgtcactta attaattgtg ttagaatcaa 60

agaaacatag agttgggcaa tatacttcat cctacccatc ccacccaaat cttactctac 120

tcatct 126

<210> 260
<211> 149
<212> DNA
<213> Homo sapiens

<400> 260
aaaaatttat ttactagtct cagtaataca ttagtaaaaa tcatgtcact taattaattg 60

tgttagaatc aaagaaacat agagttgggc aatatacttc atcctaccca tcccacccaa 120

atcttactct actcatctca ttctcatta 149

<210> 261
<211> 163
<212> DNA
<213> Homo sapiens

<400> 261
agaattaact gactatggtt ttgcaggcca gtttgatccc agtattttta tttctaaagg 60

ggttcttata gttcctctga ttgttaccat tttaaaatag agaaagtcca tagtgatgcc 120

tttcctttca gtggctgatt ggcacgacct cttgagaatg cat 163

<210> 262
<211> 269
<212> DNA
<213> Homo sapiens

<400> 262
atttgcattt taccatgggt cctcaataaa taaatagaat gttgtttttt gtattttaag 60

ttttttttg ttttcccct cagaggaagg atgaaaaaaa gaattaactg actatggttt 120

tgcaggccag tttgatccca gtatttttat ttctaaaggg gttcttatag ttcctctgat 180

tgttaccatt ttaaaataga gaaagtccat agtgatgcct ttcctttcag tggctgattg 240

gcacgacctc ttgagaatgc atgcatgaa 269

<210> 263
<211> 105
<212> DNA
<213> Homo sapiens

<400> 263
atttccatca catatgtgcc aagacttgtg ttctgtatcc aggagtgtgt tagatactaa 60

catagtgttt catttacatg tgtgtgaaac ctgggtgaag agcca 105

<210> 264
<211> 174
<212> DNA
<213> Homo sapiens

<400> 264
ccatcagttt ttccaatgtg aatggactgg ttcatatcac accatattta gagatacaag 60

gtgattataa ctaacgtgtc tacaagacat actgggtcaa acaatgtgat caatccaaag 120

ggtatctttt taaaaagaat ttaagtactc agctgcaaag ataagttcac taat 174

<210> 265
<211> 218
<212> DNA
<213> Homo sapiens

<400> 265

gtacatggtc tggagtaacc tttatatgaa gtggctgccc aggtgtgtgg cttaggacta 60

gatctccagg ttgcacaaag ttggcattgg gtttagtttg cattttcca ttctgaagat 120

ggccctcctt ggatttcatc caggaaatcc atagctttct gttaacagga catggagtag 180

actggctgca tttgaaggac agcacagatc cctcatca 218

<210> 266
<211> 103
<212> DNA
<213> Homo sapiens

<400> 266
aaaccttgtt ttattcagcc cagacctggg agatctagct ctgtggtatg gccaaagtat 60

aaaaaataaa aaccaacaac aacaaaacaa cactgtagag aaa 103

<210> 267
<211> 194
<212> DNA
<213> Homo sapiens

<400> 267
tcaaactcag gtatgtgaca ctctacagtt caatgctagc acacctgtgt gaggcttaac 60

aacatgagga actgatagcc agtgatacac aaatccagca cttcctctcc atttactctg 120

tcaggctgta tatggggagc aacacatatg gctttgtggc agccagaaag tgaaggtctt 180

tttaggaggt gaca 194

<210> 268
<211> 61
<212> DNA
<213> Homo sapiens

<400> 268
ttcccagcac cggaaggtct cagacttcat attccagcat aaacacagtg ctcccctccc 60

c 61

<210> 269
<211> 268
<212> DNA
<213> Homo sapiens

<400> 269
gtaaagcttt ggcacataca gtataaaaaa taatcaccca ccataattat accaaattcc 60

tcttatcaac tgcatactaa gtgttttcaa tacaattttt tccgtataaa aatactggga 120

aaaattgata aataacaggt aagagaaaga tatttctagg caattactag gatcatttgg 180

aaaaagtgag tactgtggat atttaaaata tcacagtaac aagatcatgc ttgttcctac 240

agtattgcgg gccagacact taagtgaa 268

<210> 270
<211> 37
<212> DNA
<213> Homo sapiens

<400> 270
tgggctggag ccgcacacgc tctcctccca tgttaaa 37

<210> 271
<211> 112
<212> DNA
<213> Homo sapiens

<400> 271
atagatgaca taagttacca tactcaaatg taagataggg agaggtagaa gaaatagctg 60

agaacttgaa aagatgtact gttattgtca acaaaccaat gtcttctccc tt 112

<210> 272
<211> 158
<212> DNA
<213> Homo sapiens

<400> 272
ttttcgtagt ccaaaggctt tattgttctg ctgaaatgct tacaaatact gaaaaccccc 60

agcctgggcc caggcaacca agggctcaat gctgggaagg agagcagggg aggtgggctt 120

agtgttaagg cgtgaagggc gaggccagac agctggag 158

<210> 273
<211> 75
<212> DNA
<213> Homo sapiens

<400> 273
catctctgac tttaatggct taagcaagaa catggtttcc gtggctcccc ctggactgaa 60

tgctggagga tatat 75

<210> 274
<211> 182
<212> DNA
<213> Homo sapiens

<400> 274
tgagtaggtg agtttattgg gacttacaca caggtcaatc ctgggcggcg acaagacagc 60

tctagagatc tgagcttcct cccaatgcta aactgctttc atgctaattt tctgactgtt 120

tacttaccgg gtaagagcga tgggactgtt ttcattggtt ggttctcaca tactctctgg 180

ga 182

<210> 275
<211> 121
<212> DNA
<213> Homo sapiens

<400> 275
cctggatctc acagacgttg ggcttttcaa ctgcagactt caatgctttg tttccaggtg 60

gcaggagaaa catcacatct cattaccaac aattatttcc ctcaaaggta agtaattgta 120

t 121

<210> 276

<211> 177
<212> DNA
<213> Homo sapiens

<400> 276
cagtggtttg caagcatggt ttcctggatc tcacagacgt tgggcttttc aactgcagac 60

ttcaatgctt tgtttccagg tggcaggaga aacatcacat ctcattacca acaattattt 120

ccctcaaagg taagtaattg tatctaactt caatattcct ttccctggcc aaaaatt 177

<210> 277
<211> 237
<212> DNA
<213> Homo sapiens

<400> 277
agacccctga cacagaccac tagaagattc cgggaacgtt gggagtcacc tgattctgca 60

aagataaata atatccctgc attatcaaaa taaagtagca gacctctcaa ttcacaatga 120

gttaactgat aaaacaaaac agaagtcaga caatgtttta aattgaatga tcatgtaaat 180

attacacatc aaaccaatga catgggaaaa tgggagcttc taatgaggac aaacaaa 237

<210> 278
<211> 43
<212> DNA
<213> Homo sapiens

<400> 278
caatggttga gcccctgtca agtgccagtc atgatagtag taa 43

<210> 279
<211> 198
<212> DNA
<213> Homo sapiens

<400> 279
gggatttctt ggtttgtgaa aacaggagag gagaaatatc tcatacaagt gaaaggatac 60

tggagagaga aattacccat ttctaaaaaa aaaccacact ctgtcgtatc tgtgttaatg 120

ttttctagca tgtactctgg tttcaacaga cacaaattta tatgttaacc cagttttctt 180

gccgttctgt aagtgttt 198

<210> 280
<211> 70
<212> DNA
<213> Homo sapiens

<400> 280
tgtctttgag gctaatggac ccgtggggct tgtaatctgt ctctttctac tatttacatc 60

tgatttaaat 70

<210> 281
<211> 94
<212> DNA
<213> Homo sapiens

<400> 281

gcctcccatt caagtgaagt tataatttac actgagggtt tcaaaattcg actagaagtg 60

gagatatatt atttatttat gcactgtact gtat 94

<210> 282
<211> 165
<212> DNA
<213> Homo sapiens

<400> 282
tttcctgccc caaggcagat ccacatcacc gaagctccct agaggggcaa aagatggagt 60

gagccacagg aagtttgggg cgtggtgagt tggaatgata cgtccatttc tctatgaaat 120

atttgctact agactgttca tttctctctg acatgtttgt tgaat 165

<210> 283
<211> 208
<212> DNA
<213> Homo sapiens

<400> 283
catccgccag ggcccacacc cccttcctac tcccagacac ccaccctcgc ttcagccaca 60

gtttcctcat ctgtccagtg ggtaggttgg actggaaaat ctctttttga ctcttgcaat 120

ccacaatctg acattctcag gaagccccca agttgatatt tctatttcct ggaatggttg 180

gattttagtt acagctgtga tttggaag 208

<210> 284
<211> 227
<212> DNA
<213> Homo sapiens

<400> 284
agcccaactt cttacccgaa agcatcactg ccttggcccc tccctcccgg ctgccccat 60

cacctctact gtctcctccc tgggctaagc aggggagaag cgggctgggg gtagcctgga 120

tgtgggccaa gtccactgtc ctccttggcg gcaaaagccc attgaagaag aaccagccca 180

gcctgccccc tatcttgtcc tggaatattt ttggggttgg aactcaa 227

<210> 285
<211> 57
<212> DNA
<213> Homo sapiens

<400> 285
tattgaggac ccatggtaaa atgcaaatag atccggtgtc taaatgcatt catattt 57

<210> 286
<211> 135
<212> DNA
<213> Homo sapiens

<400> 286
tacccgggaa agtacgtcta gattgtgtgg tttgcctcat tgtgctattt gcccactttc 60

cttccctgaa gaaatatctg tgaaccttct ttctgttcag tcctaaaatt cgaaataaag 120

tgagactatg gttca 135

<210> 287
<211> 247
<212> DNA
<213> Homo sapiens

<400> 287
caaactattt ttccacctcc aaaagaaatt aacacatgga cattttaaag tctttagtat 60

aaagaaaatt tgtattcaat gtgttaagca ttaacatgta ttttatttgt gtatccactc 120

catctgattt ttctgagcca ttttgatttg ttccttcatt aaaaaaaatc tcttaaagtt 180

atttagtgtc taaaagtgac tgacttaaat tatgtggtgc caatctgtaa tgtctttgaa 240

ttccttt 247

<210> 288
<211> 174
<212> DNA
<213> Homo sapiens

<400> 288
ttgcatggag acttgaggag ggagggcttg aggttggtga ggttaggtgc gtgtttcctg 60

tgcaagtcag gacatcagtc tgattaaagg tggtgccaat ttatttacat ttaaacttgt 120

cagggtataa aatgacatcc cattaattat attgttaatc aatcacgtgt atag 174

<210> 289
<211> 126
<212> DNA
<213> Homo sapiens

<400> 289
ggatccaaga gctgactatg cctgcattgc tgagaacaaa cccacctgag caccccagac 60

accttcctca acccaggcgg gtggacaggg tcccctgtg gtccagccag taaaaaccat 120

ggtccc 126

<210> 290
<211> 132
<212> DNA
<213> Homo sapiens

<400> 290
acagcccacc cttgtgtcca ctgtgacccc tgttcccatg ctgacctgtg tttcctcccc 60

agtcatcttt cttgttccag agaggtgggg ctggatgtct ccatctctgt ctcaacttta 120

cgtgcactga gc 132

<210> 291
<211> 173
<212> DNA
<213> Homo sapiens

<400> 291
aaatgctcct tgaatattaa aaggttgtaa aaatagtgca tgttatgtga tttcaatttt 60

gtttttaaa atatgggtgt atgcttgtat acgtagagca gataaaaaag acggaaggca 120

tactaaaaaa tgttgagtgg ttatctttgt atggtggaac aaagtcactg taa 173

<210> 292
<211> 274
<212> DNA
<213> Homo sapiens

<400> 292
ggcacgtggc ttcatgtcag taagcaagat gcttcttaat aacccacctt ctgccccact 60

ctattcctta tcctgctgcc cctgtagggg tcaagggccc tccgtctaca ccctcttctt 120

ctcctccatc ctttattcag agtcatctcg ccccttcccca tgggtggggg aacctgtgtt 180

tgtttgtgtg cacatgtaaa ttttaaatat tttaagcaga aagtccttac ctcctgtaac 240

acatcaataa agtacaatca ttgtgagccc tttc 274

<210> 293
<211> 185
<212> DNA
<213> Homo sapiens

<400> 293
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tggcaaaaca aaagtacatt gcttaaaata tatagtgaaa aatgtcacta tatcttccca 120

tttaacattg tttttgtata ttgggtgtag atttctgaca tcaaaacttg gacccttgga 180

aaaca 185

<210> 294
<211> 42
<212> DNA
<213> Homo sapiens

<400> 294
tcatgacgag ttaatgcatg tccgtggttg ggtgcacctg ta 42

<210> 295
<211> 250
<212> DNA
<213> Homo sapiens

<400> 295
gatttctcat gacgagttaa tgcatgtccg tggttgggtg cacctgtagt tctgtttatt 60

ggtcagtgga aatgaaaaaa aaaaaaaaaa aaagtctgcg ttcattgcag ttccagtttc 120

tcttccattc tgtgtcacag acaccaacac accactcatt ggaaaatgga aaaaaaaaac 180

aaaaaaaaaa caaaaaaatg tacaatggat gcattgaaat tatatgtaat tgtataaatg 240

gtgcaacagt 250

<210> 296
<211> 247
<212> DNA
<213> Homo sapiens

<400> 296
ggcaggcttc tctgtagaac cccaggggct tcggcccaga ccacagcgtc ttgccctgag 60

cctagagcag ggagtcccga acttctgcat tcacagacca cctccacaat tgttataacc 120

aaaggcctcc tgttctgtta tttcacttaa atcaacatgc tattttgttt tcactcactt 180

ctgactttag cctcgtgctg agccgtgtat ccatgcagtc atgttcacgt gctagttacg 240

tttttct 247

<210> 297
<211> 112
<212> DNA
<213> Homo sapiens

<400> 297
attttagtat ggtgtctgtt tatgtaactc tgacttgctg gaaaagttga aactccaaat 60

aatctgaaac tagaaaagaa atagcacata attactacct tccccttggc gg 112

<210> 298
<211> 278
<212> DNA
<213> Homo sapiens

<400> 298
aaatggcttc cgatttccag cttgggcctg gggattggag atgtccccac tgagagtagg 60

gcacaagtga ggaaatggtt tggagaggaa gatgataagt tacatcatgg atgtgctgag 120

tctgagttgc ctatgggact tggaatgggg ggtggcaaaa ggtgtgtgat cttgagcaag 180

atattcaact cttctgggcc ttggtcttct catttgtaaa acggtgataa gaatattact 240

tcccatttgt gttgctgtga atattaaatg cgctacca 278

<210> 299
<211> 137
<212> DNA
<213> Homo sapiens

<400> 299
gtgggcagca cttagattcg gagccatgga tagtccggag tccaaggtct ctgggtgagc 60

agacagtcgg ccaaaggcca gcctggagtc aaagagacca gacccctgct tagattgcca 120

tactcgcacc attccaa 137

<210> 300
<211> 252
<212> DNA
<213> Homo sapiens

<400> 300
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tattagaaga aaggaaaaaa aagcagaggc caaagaagtt ttgtgtttgc tgatgagagc 120

cccactcatt tgcgaaacgc acgtaaaaca aagtgaaccg tgactgttaa actagggatg 180

ggaaattttg catcttgggg ggctgtacat ttatttattt agttgaagat tcactgatcc 240

cactttgaaa ta 252

<210> 301
<211> 106
<212> DNA
<213> Homo sapiens

<400> 301
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catgtgtgtg cgtgtgctgt gcgtttgtgt gctgtgtgct cgtgtg 106

<210> 302
<211> 294
<212> DNA
<213> Homo sapiens

<400> 302
tgggaagcgg cgagatcctc gggctggggg tgcccacgtt tgctacctcc ccctgtgaaa 60

tcgctggtgc tcacaattgt ctttcacagt gtatgtgatt tttttaagga aaaaaaaaaa 120

atccctattt aagattttga aggtgctacc attattttgc cacagacttt gaagaaactt 180

ttggatgtgg ggcatcatcc gcatctttct ctctcctcca aatgacaaag tttggggaat 240

ttttgaattt tcctagcatc gcccttgtgc tcatcaggta atctgctaag gagg 294

<210> 303
<211> 238
<212> DNA
<213> Homo sapiens

<400> 303
acccatcctg ttcgtgaata ggtctcaggg gttgggggag ggactgccag atttggacac 60

tatatttttt tttaaattca acttgaagat gtgtatttcc cctgaccttc aaaaaatgtt 120

ccaaggtaag cctcgtaaag gtcatcccac catcaccaaa gcctccgttt ttaacaacct 180

ccaacacgat ccatttagag gccaaatgtc attctgcagg tgccttcccg atggatta 238

<210> 304
<211> 258
<212> DNA
<213> Homo sapiens

<400> 304
cattctttcc tccacaggat tgctttgtcc atctcctgct ttcatttcaa gtgcataaac 60

aaaacctcaa agggcctggg aaggtgaggc aggccagagt ctgtgttctg tgttgagtgt 120

caagctattt gttaagaagg tttgcaacag gcctttggtg tgggctttgc cagagactgt 180

tttgaacact ttgcttgaga tccgtgccct gtaaaatgga tatgatgttt tactgatgtc 240

tgtaatacat ttgtaaac 258

<210> 305
<211> 85
<212> DNA
<213> Homo sapiens

<400> 305
ttaagcgcat tagaaaacaa ttgtttgtaa tggaatcaaa gtgtttccct ggacagtttg 60

atgtgcttat ggttgagatt tataa 85

<210> 306
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (127)..(127)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (194)..(194)
<223> n is a, c, g, or t

<400> 306
atttgcaaca gcctagtgga tttggtaggg tcctgaatca tctctataag gcaaacaagg 60

aaattgtaac acaaagaaat aaacatattg aatataattg ctattctgta agacatacag 120

tctgtgnaag atgtatctta tttacagaga cattttgaa aattaaaata ttaaatactt 180

tttgttatat aganacaatg atctggaagt ataaaaagaa aaatattatc ttgttgatgt 240

aaatatgata tccttatata tattagaatc caataagata tcatgggcgc aatattagc 299

<210> 307
<211> 229
<212> DNA
<213> Homo sapiens

<400> 307
gatggctggg agataagtcc ttgaatggag gaaccaagag gtgagttaga ggcataaact 60

aaggaatttc agttagtagg gtttaggagt gacagtctag aatgagtgga gactaggaga 120

ttcatcttga tgcaagcata cttagatcca tgttactcag gatagcatag gtgagagagg 180

agctggtaga attttaatgt catacctggg tagtacaact ggttattat 229

<210> 308
<211> 213
<212> DNA
<213> Homo sapiens

<400> 308
tattttccgg ttgaccccag aattcattag atttttttaa aaaacaattt caaaatagtt 60

gctgttttaa attagttgca tccagttcat atcaatgttt gcatgctttt tagtctttgt 120

tatttattga aaacctttgg tacctaaact taagtttgat tgtttcagtg tgtacttggt 180

aaatatgtca gtggcctttt aactaaacat caa 213

<210> 309
<211> 174
<212> DNA
<213> Homo sapiens

<400> 309
caccccagga ctttatcaac ttgttcaagt tctgaatccc agcacatgac aacacttcag 60

aagggtcccc ctgctgactg gagagctggg aatatggcat ttggacactt catttgtaaa 120

tagtgtacat tttaaacatt ggctcgaaac ttcagagata agtcatggag agga 174

<210> 310
<211> 32
<212> DNA
<213> Homo sapiens

<400> 310
atggacaatt ctgtacccca ataatcagaa ca 32

<210> 311
<211> 166
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (101)..(101)
<223> n is a, c, g, or t

<400> 311
agagaggttt gtcccatata tcttgttcca gcagccatat atcttgtggt ctacagcctg 60

aagcatgatt tcccttgaag tcttggggtt gtttaaagga nagtcccttc aatataaaac 120

ctctgaaata ttagtgagaa tggctcacta atgtgaacaa tgttta 166

<210> 312
<211> 213
<212> DNA
<213> Homo sapiens

<400> 312
tacaaagaat atttgggccc agtgctacag aaaaacatga actacatctt atcgtcacaa 60

aatagccatt ataaaatgaa ttttgcagcc tctgtttttt tgaactttga ataaaatgt 120

tcagacaaat attcaacttt ttaaaaacct ccattcattg atagcctgag aaatgtacaa 180

tgaacatgtt taggcagact gctagtattt tgc 213

<210> 313
<211> 225
<212> DNA
<213> Homo sapiens

<400> 313
cctccaccaa tcatactttg acatttatct atttccttct ccacttatgg atgtaattgg 60

cttgctatag aaactacagt tcagatgctt tgaatgtatg aactacaatg aacaataaag 120

tcctcttctt ttgaagcata ttttggcttc agctttaaga taatcttatg acaagaaggg 180

tcacactgat tcacttaata aattccattc ttacctaaca caagg 225

<210> 314
<211> 259
<212> DNA
<213> Homo sapiens

<400> 314
gctggtgtgt ggatcggatg ggcaagtccc tgccagggtc tccagatggc aatggaagct 60

cctcctgccc cactgggagt agcggctaaa gctgggggat agaggggctg cagggccact 120

ggaaggaaca tggagctgtc atcactcaac aaaaaaccga ggccctcaat ccaccttcag 180

gccccgcccc atgggccccc caccgctggt tggaaagagt gttggtgttg gctggggtgt 240

caataaagct gtgcttggg 259

<210> 315
<211> 217
<212> DNA
<213> Homo sapiens

<400> 315
gaccccagtg gaaaacaaag ccaaacaaaa ctgaaccaca aaaaaaaggc tggtgttcac 60

caaaaccaaa cttgttcatt tagataattt gaaaaagttc catagaaaag gcgtgcagta 120

ctaagggaac aatccatgtg attaatgttt tcattatgtt catgtaagaa gccccttatt 180

tttagccata attttgcata ctgaaaatcc aataatc 217

<210> 316
<211> 243
<212> DNA
<213> Homo sapiens

<400> 316
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attaaaatac ccacgataaa tatttaccac aacctgtgtc agataaatgg gaaattaaac 120

acagattgta caatgtgagc ttgggagtta atggcccaga ttttactgtt aggcagtaag 180

agttggagta ggtagtcttg ttatcatgag aagaaccttg aacagataca actaatttac 240

ata 243

<210> 317
<211> 172
<212> DNA
<213> Homo sapiens

<400> 317
aacacccata atcaatcaca gagataacca ctgttcataa ttccttccag tcttcttact 60

tggcacatat acatttgtct ttctttatat atgacatatg gatattttac aaagttagga 120

tcctactcta tgcactgctt ggtgatcgga tctattcaat gtacaaaata tt 172

<210> 318
<211> 100
<212> DNA
<213> Homo sapiens

<400> 318
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ggggatgact gtattcaata gattccgaca ttatgtctgc 100

<210> 319
<211> 32
<212> DNA
<213> Homo sapiens

<400> 319
ttataatgag tgcgatatat gttgtcgagg ct 32

<210> 320
<211> 210
<212> DNA
<213> Homo sapiens

<400> 320
gttttgatgc tgtgtgcttt tggctgggcc tcgggctcca ggccctggga ccccttgcca 60

gggagacccc cgaacctttg tgccaggaca cctcctggtc ccctgcacct ttcctgttcg 120

gtttagaccc ccaaactgga gggggcatgg agaaccgtag agcgcaggaa cgggtgggta 180

attttagaga caaaagccaa ttaaagtcca 210

<210> 321
<211> 115
<212> DNA
<213> Homo sapiens

<400> 321
ttcattgagg ttcgtgtgtg ctgtgttcgc gtgtgtgtgc tgtgtgtgca tgtgtgtgct 60

gtgtcttagt gtgtgtgctg tgtgctagtg tgtgtgctgt ggggtaccga gctcg 115

<210> 322
<211> 241
<212> DNA
<213> Homo sapiens

<400> 322
ttcatcatat ccaagttcac tctgtcttcc tgagcagtgg aagatcatat tgctgtaact 60

tcttttaagt agttgatgtg gaaaacattt taaagtgaat ttgtcaaaat gctggttttg 120

tgttttatcc aacttttgtg catatatata aagtatgtca tggcatggtt tgcttaggag 180

ttcagagttc cttcatcatc gaaatagtga ttaagtgatc ccagaacaag gaatactaga 240

g 241

<210> 323
<211> 148
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (91)..(93)
<223> n is a, c, g, or t

<400> 323
gtcattgata cctgtagtaa gttgacaatg tggtgaaatt tcaaaattat atgtaacttc 60

tactagtttt actttctccc ccaagtctnt nnnaactcat gatttttaca cacacaatcc 120

agaacttatt atatagcctc taagtctt 148

<210> 324
<211> 198
<212> DNA
<213> Homo sapiens

<400> 324
gattttcttt tgacacagct ccaaggccac cagctatgca aggccacaag ttatgcacta 60

tatgattaac tgcttttgtt ttacttttgt aagtccactt ataaaaaccc tgctctgtct 120

ttgtttaatg ctcagctttt tggatttgaa tccactcagc cggtgcacac cttaaaataa 180

acatcctcct gtactctc 198

<210> 325
<211> 269
<212> DNA
<213> Homo sapiens

<400> 325
agacctagaa ggttgtagat gggaaatcag gaatgatttg aactgataaa gatttcagac 60

tcataagaac acattttata aatgttaaac acaaaaacta catgactgaa gatagaagag 120

aatgcgatgg attttattac acatggtgga agagagaaga ggcgtgtagg tttgcaaaca 180

aagttaagaa ataggaaact gaatttttca ttgtacagaa aatgtatctc ttggggaggg 240

cctgtgtacc cccattctct gattataaa 269

<210> 326
<211> 243
<212> DNA
<213> Homo sapiens

<400> 326
ggatttttc ccctgtagta gtgaggtaac atgcttgaat gtcactgtga tatttatttc 60

ctctttgttc agttgttttt gaattcctgt taagtacatg ttttaatact ttgagcgatt 120

taagatactt ttctttttgc ccatcatttt ccccaaggaa tgtaattcac ataaatccaa 180

agctcatttt ttttttatt gtacacaagt agtataatgt ttgcttttcc caataaacct 240

caa 243

<210> 327
<211> 178
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (84)..(84)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (123)..(123)
<223> n is a, c, g, or t

<400> 327
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ctggtttgac tttaattggt gggnggggtng tttctgccgc tctgtttgct gcagtccccg 120

tgncctgctt ggggactgag aaatttgagc caggtatcca gagccacagc ccatcttg 178

<210> 328
<211> 238
<212> DNA
<213> Homo sapiens

<400> 328
agttggtgcc ctgattccat ttttctcaag ttgtagaaga aacaaactaa tttacggtag 60

gagaaattca aattcagatt ctccccatcc ccaccagtta cctttggttg gtggagaggg 120

ggagaattgg caggaaaggg gcacaaagaa actttttggg gtgatggaaa tattttgtac 180

cttgctttag atgttggtca gatggaatat acgtttgtgg aaacctgcca aactgtac 238

<210> 329
<211> 155
<212> DNA
<213> Homo sapiens

<400> 329
aaacattacc gggcatggta gcttgcacct gcagtcccag ctacttggga gactgaggtg 60

agaggatcac ctgagtgtag gaggtgaaag cctcaccgaa ctatgactga accactgcac 120

tccagcgtgg gcacttggca ccagagcaag attct 155

<210> 330
<211> 47
<212> DNA
<213> Homo sapiens

<400> 330
gggatgcata aagtatgagt gccttttagg atgggaattg agatgta 47

<210> 331
<211> 235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (157)..(157)
<223> n is a, c, g, or t

<400> 331

aggatttccc aaaccagccg aggccccagc acccgccgtc tccccagaag ccccctcctc 60

cttcccccat gggtcatatg ttgaaagtct attttaaaaa ctatgttcct tgccgtagat 120

tgcagagcta atttatcacg tttctctcct gtgaganccc ccctttttata tgatatatcc 180

agaggaagtt ttgtaatata aaacaggacg cccacactga tggttttgca ctggt 235

<210> 332
<211> 38
<212> DNA
<213> Homo sapiens

<400> 332
tttggatttg aatccactca gccggtgcac accttaaa 38

<210> 333
<211> 265
<212> DNA
<213> Homo sapiens

<400> 333
tgttttagaa ccagccgtat tttacatgaa gctgtataat taattgtcat tatttttgtt 60

agcaaagatt aaatgtgtca ttggaagcca tccctttttt tacatttcat acaacagaaa 120

ccagaaaagc aatactgttt ccattttaag gatatgatta atattattaa tataataatg 180

atgatgatga tgatgaaaac taaggatttt tcaagagatc tttctttcca aaacattttt 240

ggacagtacc tgattgtatt ttttt 265

<210> 334
<211> 56
<212> DNA
<213> Homo sapiens

<400> 334
cacaatctga gcacgctacc aaatctcaaa atatcctaag actaacaaag gcagct 56

<210> 335
<211> 289
<212> DNA
<213> Homo sapiens

<400> 335
tcccaagtag tgctgactga ctctcctggt gacaggggtt tgtgtccgag cccctgcggt 60

caaggagtgt ggagcaaaac gtgggtacta gggtgggagg cggggaaagg ccacagcaca 120

ctggcgctcc agcaaagcca aatcatgtct cctctggcca ctgcggtcct ctccttggta 180

catgtcatcc cccagaggag tatccaaagc tattccacta tgcactcatc aaccctggct 240

tgtcagcctt ggggaaggtc actttattca taaaaatgcc tctttgagt 289

<210> 336
<211> 212
<212> DNA
<213> Homo sapiens

<400> 336
cctgagtcct gggatcagac acccttcac gtgtatcccc acacaaatgc aagctcacca 60

aggtcccctt tcagtcccct tccctacacc ctgaccggcc actgccgcac acccacccag 120

agcacgccac ccgccatggg agtgtgctca ggagtcgcgg gcagcgtgga catctgtccc 180

agaggggggca gaatctccaa tagaggactg ag 212

<210> 337
<211> 294
<212> DNA
<213> Homo sapiens

<400> 337
cagggttcct ttgcctgcta acaagcccac gtggaccagt ttgaatgtct ttcctttaca 60

cctatgtttt taagtagtca aacttcaaga aacaatttaa acaagttttt gttgcatatg 120

tgtttgtgaa cttgtatttg tatttagtag gcttctatat tgcatttaac ttgtttttgt 180

aactcctgat ttttcctttt cggatactat tgatgaataa agaaattaaa gtgatagttt 240

tattggtttc ctttccccca attaaggcca aataaagtcg tgagaacatt accc 294

<210> 338
<211> 52
<212> DNA
<213> Homo sapiens

<400> 338
gaggccggtg ccagtgcagg tccttggtgt gctgtgtgcc ggtcccctgg gc 52

<210> 339
<211> 297
<212> DNA
<213> Homo sapiens

<400> 339
atggtaatgt aggatccttt cacagagtgc caggctaaag agctgaactt tgtggtggaa 60

gagacagacc ccctatgtgc tctgtagaca cctgtgatga agtagaactc atgaggatat 120

gaagagaaac atttgtaatt tgagtgatta aactaggaac gaaagaggag gggagaaata 180

ggaagagaga atcaccggcc ctgttgactg atttgagctg ggaatgaaga agaaaaccct 240

gcaggtgtgg gcaccaatgt ttgaaacccc cacagtgtga gtctcaactc tgtgtga 297

<210> 340
<211> 223
<212> DNA
<213> Homo sapiens

<400> 340
ccatgtcagc ctggatagag gtatatgacg tgtgccaaga atttatccca gactcccctg 60

tgtgacagct tcataataaa gttacttaac tgtgcctctt cctccttcct ctccccacac 120

aggatggatg ggcatctttc tccttgacca ccctactctc ccttcctccc ctgatcacct 180

cccctccctg ctctcccctg gtgatggact tctaacatga gat 223

<210> 341
<211> 238

<212> DNA
<213> Homo sapiens

<400> 341
actggtatat tattgcttca tgttttgtac catcataaga ttttgtgcag attttttta 60

cagaaattat tatttttat gacaatatga cacttgtaaa ttgttgtttc aaaatgaaca 120

gcgaagcctt aactttaaat gacatttgta ttttcagaca ctgagtagca taaaaaccac 180

atagaactga actgtaactt aaattccaaa ctatgactac tacattccaa agaaacag 238

<210> 342
<211> 129
<212> DNA
<213> Homo sapiens

<400> 342
cgtccccaac atgcatctca ctctgggtgt cttggtcttt tatttttgt aagtgtcatt 60

tgtataactc taaacgccca tgatagtagc ttcaaactgg aaatagcgaa ataaaataac 120

tcagtctgc 129

<210> 343
<211> 277
<212> DNA
<213> Homo sapiens

<400> 343
tggaggattc aagatgagca ggtatgtttt ctgctttcaa taactcattt tctgctgcag 60

agatagcctt gtaagcaagc aaaggaaaac tttgacattt ctctgcaaag ataatgcatt 120

acatataagg gtgtgtctgg gagggtacca ggtgcctgtc agcaaaagtt gcaaaaacag 180

cttgataagg gtattaagtg ggcctgttgg gaaaggcagg agtgtcaaat gtcggacaga 240

actccagaca gagaaatcca gatatccagt aggttag 277

<210> 344
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (92)..(92)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (105)..(105)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (160)..(160)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (169)..(170)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (172)..(176)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (178)..(180)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (182)..(182)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (186)..(187)
<223> n is a, c, g, or t

<400> 344
gaatggcaaa acacaaatgg caacataaat gtccatttga cttacctaac ttcacaactt 60

tcaagttgag gatgtcattt attcttgaat tntgtttttt tactnagatg ctttcaatta 120

atagccctat atttttgtgc aggcgaactg tataacaggn ataaaaaann annnnnannn 180

antgannagg aggagaaatt ctcacagaac accatatgag ctttagacca a 231

<210> 345
<211> 262
<212> DNA
<213> Homo sapiens

<400> 345
gaggtgtgat tttaaggcat tgttatattt ttttttattt gtgagtgttt taaaattttg 60

tatttctttt aaacttttta ttttagaaaa atttccaaca tatatagaag tagactattg 120

taaggaaccc ttatgtaccc tccaccagct tcaacaacta tcaacaaaag tttgatcttg 180

ttttaaccac attcctttcc aatttttgtg tttaccccca gattattttg aagcaaattc 240

ctgacctcat aacattttca aa 262

<210> 346
<211> 187
<212> DNA
<213> Homo sapiens

<400> 346
ttcagtttgt cctcataggg aatcaagtat tttagctagg tgatgtcttg caagtacgtt 60

ccactttgtt acaatctact atctgtatat actatttgta tcttaattct tttatgagat 120

gttctgtaac atttttctca ctttgacaaa tgtttttaga ctgtacagtc aagatctggc 180

gcttggg 187

<210> 347
<211> 180
<212> DNA
<213> Homo sapiens

<400> 347
acagtgattc cccacgtgtg ttcatctgca cccaccgagc caggcagagg ccagccctcc 60

gtggtgcaca cagcacgcgc ctcagtccat cccattttag tctttaaacc ctcaggaagt 120

cacagtctcc ggacaccaca ccacatgagc ccaacaggtc cacgatggat ccaccagtcc 180

<210> 348
<211> 55
<212> DNA
<213> Homo sapiens

<400> 348
cagatcgaca cgcagctagc ctcctgcatt gtatggttat aaatagcacc ctagt 55

<210> 349
<211> 207
<212> DNA
<213> Homo sapiens

<400> 349
aagtgttcta caaaagaatc cctgtggtta gcttactctt aggttagatc ttctaataag 60

gctgaaattc aaaatcaaaa ccttagtgtg tccgagtcca gcctgggttc cagcattctg 120

ttcaggccac ttctgaacgg ccgaaggtgc cccattccag acctgcccat ttgatggaca 180

gagcagacag cccggaacag attcaag 207

<210> 350
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (93)..(93)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (97)..(97)
<223> n is a, c, g, or t

<400> 350
taagaattta tgaaactggg caagttattt cctgggactc aatggtaaag acacagcagt 60

aatccaaatt ttccatcttt gaaattttcc atncttncag tcaatattag taatacctgg 120

gtcaaagggg agagttaggc ataccaatta atgatcatca gaaatgacat agtcctacaa 180

aagcaaagaa aatttagaga cactttctta aaaatacgac tcttggtact gttgaagaaa 240

a 241

<210> 351
<211> 261
<212> DNA
<213> Homo sapiens

<400> 351
agccgctgcc aagtctgtat gagaagaaca taatgaagcc tgactcagct aatgtcacaa 60

catggtgcta cttcttcttc tttttgttaa cagcaacgaa ccctagaaat atatcctgtg 120

tacctcactg tccaatatga aaaccgtaaa gtgccttata ggaatttgcg taactaacac 180

accctgcttc attgacctct acttgctgaa ggagaaaaag acagcgataa gctttcaata 240

gtggcatacc aaatggcact t 261

<210> 352
<211> 274
<212> DNA
<213> Homo sapiens

<400> 352
ggttgagttt gtccattgct agggagagac ttccagtaat aaaatttact attctagatg 60

cttctactgt tatgttttat ctgcccattt atctttctta gttaccagga gaaatgtgtg 120

acacctatat tataatgaaa acaatcttat tacttatagt ttatctatat taaacaaatt 180

taattgcatt ttaaagcatt ctttgatatt gttgcttttg caataaatat ggataatctt 240

ggttataagg gagttaaaac aatgctgtaa taaa 274

<210> 353
<211> 179
<212> DNA
<213> Homo sapiens

<400> 353
tcatggaatg ctacatgctt tctgtttttt tcattttgga tttctccaaa actaactgaa 60

tttaagcttc aggtcccttt gtatgcagta gaaaggaatt attaaaaaca ccaccaaaga 120

aaataaatat atcctacttg aaatttactt tatggactta cccactgcta gaataaatg 179

<210> 354
<211> 249
<212> DNA
<213> Homo sapiens

<400> 354
cggttgttaa aactggttta gcacaattta tattttccct ctcttgcctt ttttatttgc 60

aataaaaggt attgagccat tttttaaatg acatttttga taaattatgt ttgtactagt 120

tgatgaagga gtttttttta acctgtttat ataattttgc agcagaagcc aaatttttttg 180

tatattaaag caccaaattc atgtacagca tgcatcacgg atcaatagac tgtacttatt 240

ttccaataa 249

<210> 355
<211> 64
<212> DNA
<213> Homo sapiens

<400> 355
ccatgaagga gcaagttttg tatttgtgac ctcagctttg ggaataaagg atcttttgaa 60

ggcc 64

<210> 356

<211> 57
<212> DNA
<213> Homo sapiens

<400> 356
atgaggcaga atctggttgg gtatgtttct tatatatgtt tgaagcagat ggctgac 57

<210> 357
<211> 141
<212> DNA
<213> Homo sapiens

<400> 357
atttttgcct ttccgtttct gtctatgatg taggcttctg aggagaacca agaagcttgg 60

ctttagtggt agaatgacag aacttaggga tcccttgcag gctagaacaa agttctgacc 120

cttagaccaa atctttatgt t 141

<210> 358
<211> 108
<212> DNA
<213> Homo sapiens

<400> 358
gaggaggtgg gcctcgttag actgctcaga ttactggaac ctcgttatca catcccattc 60

tacaagtttt tcactgaatg tttcctgaca tctataaatg agggtgcc 108

<210> 359
<211> 158
<212> DNA
<213> Homo sapiens

<400> 359
gttcaaatga tctacactta cattttgcaa atctttttt ttaaattttt taaattttat 60

attttttttc agccaactc aaggccaaaa aaaatttctt aatatagtta ttatgcgagg 120

ggaggggaag caaaggagca caggtagtcc acagaata 158

<210> 360
<211> 157
<212> DNA
<213> Homo sapiens

<400> 360
aggtggtttt gataacacac ttataaggct ttctgtaaaa ggtactatag aagggcgaag 60

aatcgttcaa ctgtcaatca gcctcttgat tctttgtaaa ttgccagggt gggtgggtac 120

atatctcttc ttgattctgc atttcatact taactat 157

<210> 361
<211> 273
<212> DNA
<213> Homo sapiens

<400> 361
gactgagtga gtaactgcaa gctacagggg gcagcttacg tatggcacac agggtggggc 60

tagcttggtt tcataggctc tctgtggatt ggatgattta aataattttg gtgggccctg 120

gggtttaggg actgtcccta gttgtttggt gctaggtccc agggcagatt agggcagatg 180

tgagtgtgag agcatgataa ggaaagtctt caaggtgtgg aattactcaa ctgctggaga 240

aagggaattt atcagccttt agccagggcc tca 273

<210> 362
<211> 257
<212> DNA
<213> Homo sapiens

<400> 362
gaaagcctga gtttgcaacc agttgtaggg tttttgttgt gttttttttt ttttttgaa 60

ataaaactat aatataaatt ctcctattaa ataaaattat tttaagtttt agtgtcaaaa 120

gtgagatgct gagagtaggt gataatgtat attttacaga gtgggggttg gcaggatggt 180

gacattgaac atgattgctc tctgtctctt ttttcagctt atgggtattt atcttctatt 240

agtatttgta tcttcag 257

<210> 363
<211> 268
<212> DNA
<213> Homo sapiens

<400> 363
atgagtcaaa atccgctctc catgcttact cttgacaccc cattgaagcc actcattgtg 60

tgtgcgtctg ggtgtgaagt ccagctccgt gtggtcctgt gcttgtactg ccctgctttg 120

cagttccttt gcacttactc atcgagtgct gttttgaaat gctgacatta tataaacgta 180

aaagaaaatg taaaaaaaaa aaacccacac acaaacaaac ccatacgatc tgtatttgta 240

tatacacgtg tccgtacaag tataacta 268

<210> 364
<211> 290
<212> DNA
<213> Homo sapiens

<400> 364
gaccaaatgg attagactgt aaactgcaaa gtgctgtccg cacatgaggt catctgatta 60

ctgtcctcag atctcttttg tagaggattt caatgtattt ctttatcatt tgagtgtgtg 120

tgtgatggac gaatatgtgt gtgagtttga gaagcatatc gttcgtgtcc agttactttg 180

caaatttgtg gacatttgtg attggacaga ggggtttgtg ctgtggccta acacttgcca 240

agtgaggtgt aggttatgcc tatatgcaaa ttaaacttca cctttcttga 290

<210> 365
<211> 205
<212> DNA
<213> Homo sapiens

<400> 365
cctttctaag gatgagggaa tccacaacag actttctcta gaaaacacta atgatggaca 60

acttttggt gtcatcaatg agttggctac taccttgatg taaaaatttg taaggaaaat 120

tttcaccatt tcgagtgtca agtgtatttt taactgtctg gtttgtactt ttatgacttt 180

tgtactacca aagcggagtt aaaaa 205

<210> 366
<211> 278
<212> DNA
<213> Homo sapiens

<400> 366
ctatcaggta ctgtgctcat ctgaacaaca aacctcaaca acacgcaatt tatccatgta 60

attaacctgc acatgtaccc ccgaaaccta aaataaaagt tcaaaaaaaa cctgtggtat 120

ttaaataggt attgtgtcta aaaatgcatg ctatctaaaa atgtagtttt attgcactgt 180

ataagaatac gagaggttta aaatagacac tctaaaagtt ataagcccta atttacatat 240

attctctagc ctttctccac cttctatcta ccaaaaaa 278

<210> 367
<211> 41
<212> DNA
<213> Homo sapiens

<400> 367
tcctcatggt ggcagcgctc atagcgaaag cctactgtaa t 41

<210> 368
<211> 133
<212> DNA
<213> Homo sapiens

<400> 368
aatgcagaat attcctctga acacttccct catacatcat tcaatattat aaattaaaca 60

caaagagcct ctccacttag atttttatca tgcatcctac attgtaatgt ctttactctt 120

ccatagaaaa ggt 133

<210> 369
<211> 74
<212> DNA
<213> Homo sapiens

<400> 369
ggtgcaatta ttatactgcg aaaatgaaaa tattgcatac taaacagtac ctagggtatg 60

atctcaatgt aaaa 74

<210> 370
<211> 172
<212> DNA
<213> Homo sapiens

<400> 370
aactgtgacc gtttctgtgt gaagattttt agctgtattt gtggtctctg tatttatatt 60

tatgtttagc accgtcagtg ttcctatcca atttcaaaaa aggaaaaaaa agagggaaaa 120

ttacaaaaag agagaaaaaa agtgaatgac gtttgtttag ccagtaggag aa 172

<210> 371
<211> 258
<212> DNA
<213> Homo sapiens

<400> 371
actcaaggct gtgaacaaac atacgctgct ttattctttc caatttttct cttgttttct 60

agaactctta tccatatgtt tttaaaataa gtacctaaaa gtggtttgat agtgtcctaa 120

acgacttttt taacttccta aatggaaaga gcataacaat gtagttgatt ggtaagattt 180

acagggattt ggtttctgag tttgaggcac attcccagtg aataagctga gtcccatacc 240

acactcaaaa ggttttaa 258

<210> 372
<211> 103
<212> DNA
<213> Homo sapiens

<400> 372
attaaagtac tcaagttagt tgttttgcag agatgttgcc ttcagatgtt aatcaggtct 60

ctcaagtttc atggagtcta tgctgatcct ttaattgaca aat 103

<210> 373
<211> 258
<212> DNA
<213> Homo sapiens

<400> 373
ggatgaagtg gcacacactc taactgaaag cagagtatta aagaacacta gacatccctt 60

tttaacatcc ttgaaatatt ccttccagac aaaagaccgt ttgtgttttg tgatggaata 120

tgttaatggg ggcgagctgt ttttccattt gtcgagagag cgggtgttct ctgaggaccg 180

cacacgtttc tatggtgcag aaattgtctc tgccttggac tatctacatt ccggaaagat 240

tgtgtaccgt gatctcaa 258

<210> 374
<211> 252
<212> DNA
<213> Homo sapiens

<400> 374
ggttctgtaa ggtctttatt tcccataagt aaatattgcc atgggagggg ggtggaggtg 60

gcaaggaagg ggtgaagtgc tagtatgcaa gtgggcagca attatttttg tgttaatcag 120

cagtacaatt tgatcgttgg catggttaaa aaatggaata taagattagc tgttttgtat 180

tttgatgacc aattacgctg tattttaaca cgatgtatgt ctgtttttgt ggtgctctag 240

tggtaaataa at 252

<210> 375
<211> 210
<212> DNA
<213> Homo sapiens

<400> 375

tttcaagatc ttttgctcac aattcactgc aactgagggg atgtgaatat cattatgcaa 60

taaattaaga gccacagttg gctgaggtga tatgaaagcc aacctgccta agggggtat 120

gaaagatgtg tatctttcca aacttttaaa acaacgtaag tctgagataa gaacatattt 180

gatggcactg tttggaaaga ggtgtcctta 210

<210> 376
<211> 258
<212> DNA
<213> Homo sapiens

<400> 376
ctcaccagga ctcgtctctc cattcccgtc agagtttgct ttgatttccc tttcctttcc 60

ttctcgggga ccagttctta cttcctttta tttttagctt tgcactccat gtggtttcag 120

ggttcagttt gatccatcaa aaggttcttt ttttataatc ccttttgaaa atgataatca 180

aaggaagaga tgtggtgttt ggtcatgtgg aaaactcaat gtataattta gacgtctgtc 240

aaaaatccga caaataaa 258

<210> 377
<211> 218
<212> DNA
<213> Homo sapiens

<400> 377
gtttcaattg attcacaact ttaaaaaata tccacagagg cgtaagagga gatattgtat 60

tgcacccacg aaccagtttt atgctgttta agaaagggac attcaagaaa caaaaaggga 120

gctttgggaa atttgaacaa taaataatag tagaataaaa aattcagaga aagtttggat 180

gataaatttg agccaatctc ccagtaagca gagcaaaa 218

<210> 378
<211> 267
<212> DNA
<213> Homo sapiens

<400> 378
atgactgtgc tagagccacc ctctcacttt agcctcctga gtagctggga ctacaggtgc 60

ttcccactgt gcctggccaa ttaacaattt catttttatt tttagtagag atgagatctc 120

actatgttgc ccaggctggt cctgaactcc tgagctcaag agatcctccc accttggcct 180

cccaaagtac tgggattaca aacaagagcc actgtgcctg accaggctct aagattgcta 240

atctggctat agaaggacta atgttag 267

<210> 379
<211> 230
<212> DNA
<213> Homo sapiens

<400> 379
aagccgaggg gcccgagact ctgcagcggg gccagaaaga gaagagtggg ggaggaggcc 60

gggagtggtg catggaccag ggggtagagg gaggtgggtg tggacctggg gtcgggcgcc 120

agtcagcttg cagcctatga aggacggaag ggagggctac agagataggg gaagagtggg 180

gctgaggata gccagagcgg cttggcacac agttttaggg taaaagcatc 230

<210> 380
<211> 196
<212> DNA
<213> Homo sapiens

<400> 380
tttatttata ccaagcctcc tcctgaaatt tctcttcctt tctttctacc tacccaagac 60

ataccacgtg cttcaataac cagtcccttc ctcctacaaa cactacaacc tggaaagcac 120

tcttgctttt ctgaagtcct ctatacttag tgtaactctt ctgtgatgaa gattaaagtg 180

tattatggca actctc 196

<210> 381
<211> 267
<212> DNA
<213> Homo sapiens

<400> 381
aggcattata tatactacac agagtacaat taaaccataa ttgggaatta tattttgttt 60

ttttcttccc aggcaataca cctctgaaca tgtgtgtgat aaatgggttt gctaatgtgc 120

tgttttaaag tataaagcat aatatgtttt ggttaacaca atgtactttt tgaactataa 180

atctttattt taatatggaa atgtttggaa caggagatgc aagccactaa cagagaactt 240

taataattct accctgtatt ttataaa 267

<210> 382
<211> 280
<212> DNA
<213> Homo sapiens

<400> 382
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gtattgggaa tccaaattga attttgattc tccttggcag tgaactactt tgaagaagtg 120

gtcaatgggt tgttgctgcc atgagcatgt acaacctttg gagctagaag ctcctcagga 180

aagccagttc tccaagtttt taacctgtgg cactgaaagg aatgttgagt tacctcttca 240

tgttttagac agcaaaccct atccattaaa gtacttgtta 280

<210> 383
<211> 72
<212> DNA
<213> Homo sapiens

<400> 383
acatgagtat ggaatggtgt tttattatga ctttagtttg cattttcctc aattctcgtt 60

aaatccttca tt 72

<210> 384
<211> 260
<212> DNA

<213> Homo sapiens

<400> 384
gagtaggttc ggtctgaaag gtgtggcctt tatatttgat ccacacacgt tggtctttta 60

accgtgctga gcagaaaaca aaacaggtta agaagagccg ggtggcagct gacagaggaa 120

gccgctcaaa taccttcaca ataaatagtg gcaatatata tatagtttaa gaaggctctc 180

catttggcat cgtttaattt atatgttatg ttctaagcac agctctcttc tcctattttc 240

atcctgcaag caactcaaaa 260

<210> 385
<211> 222
<212> DNA
<213> Homo sapiens

<400> 385
atgattatag aaggctgtct tagtgcaaaa aacatactta catttcagac atatccaaag 60

ggaatactca cattttgtta agaagttgaa ctatgactgg agtaaaccat gtattccctt 120

atcttttact ttttttctgt gacatttatg tctcatgtaa tttgcattac tctggtggat 180

tgttctagta ctgtattggg cttcttcgtt aatagattat tt 222

<210> 386
<211> 216
<212> DNA
<213> Homo sapiens

<400> 386
gcaatatatt tgtgattccc catgtaattc ttcaatgtta aacagtgcag tcctctttcg 60

aaagctaaga tgaccatgcg ccctttcctc tgtacatata cccttaagaa cgcccctcc 120

acacactgcc ccccagtata tgccgcattg tactgctgtg ttatatgcta tgtacatgtc 180

agaaaccatt agcattgcat gcaggtttca tattct 216

<210> 387
<211> 35
<212> DNA
<213> Homo sapiens

<400> 387
ttggatagca gctatcttgt tggatgtgag gtgga 35

<210> 388
<211> 258
<212> DNA
<213> Homo sapiens

<400> 388
atgaaaggtg gaagttctac ctagatttga atgagtgttt ttttaaggga atgagaatgt 60

catggtgcta aacctgacaa ataagagatc attgaaatgc tgaaaatttt aacagttttt 120

ttaaaagtat tgaggggca aaaattacca attatggtat acaaaaataa gcctataaat 180

gtgtttcaca ttgctaactt gagtttcagt tgattcagtt tgtaataact agtaatgagc 240

ttctgtttac aataaaaa 258

<210> 389
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (195)..(195)
<223> n is a, c, g, or t

<400> 389
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ttcatcaact cctttgtttt ttccttcttt ttttttttt gagatgaggt ctcactatct 120

tgcccagact ggtttcgaat tgccctccag caattctccc acctcagcct tcagagtagc 180

tggcattgtg ggtangcacc actgtgccca gctcctgttt tataataaat aagccagagc 240

tctatctcca aatggtgcaa atcatcaatg ctatt 275

<210> 390
<211> 281
<212> DNA
<213> Homo sapiens

<400> 390
gggcccctgg tatttatagg gtccaagagg aggcacctgc ttttcaactg caccctcagt 60

gctgcctctt cacggcccct aaacgtttcc ctttgaggtt gtgatgctgg gaatcacaga 120

cttcactctc tgcctgcacc cttccccgag gtctcatctt ttctgggtcc cacatctttg 180

taataatgtg aaaaagcaca atttgtctga tcacccccca ggtggttccc caccttatta 240

tcactacctg atccgagtta ctgcaataag tacggtgtcg c 281

<210> 391
<211> 274
<212> DNA
<213> Homo sapiens

<400> 391
tgctcagtgt catgctgtgt gtgcatgtgt gtgctgtgtg ttttgtgtgt gtgctgtgtt 60

catgtgtgct gtgcatgcgt gtgtgctgtg tgtgcctgtg tgtgcggtgt gctgtgtcct 120

tgtgtgtgct gtgtgtgcgt gtgctgtgtg catgtgtgtg ctgtgttatg tcgtgtgtgc 180

agtgtgtgct gtgtccgatg tgtgctgtgt acacatgaga gagcagagtg tacatgtgtg 240

tgctgagtct atcagaagat gtgtgtagct gcgg 274

<210> 392
<211> 89
<212> DNA
<213> Homo sapiens

<400> 392
tgtgcccagc ctaagccatt tcttaaaata aaaatgctaa aggactagta agtaaaaata 60

aaacttccta tgggatttcc cagtggaaa 89

<210> 393
<211> 72
<212> DNA
<213> Homo sapiens

<400> 393
gggagattgg tggcccttgc caggaagtgt cttaacactt tgtggatact gctgcctgtt 60

gtctttaaaa gc 72

<210> 394
<211> 177
<212> DNA
<213> Homo sapiens

<400> 394
gataacagtc ttgcatgttt atcatgttac aatttaatat tccatcctgc ccaacccttc 60

ctttcccatc ctcaaaaaag ggccatttta tgatgcattg cacaccctct ggggaaattg 120

atctttaaat tttgagacag tataaggaaa atctggttgg tgtcttacaa gtgagct 177

<210> 395
<211> 117
<212> DNA
<213> Homo sapiens

<400> 395
ttaaacagtc tagagtgaag ggaatgtttt aaaatccaga ggcgatcaag tgaagccaac 60

ctttggaggc ccgtagaagt catttggagg aatttggact tcgtgcagta ggaaaga 117

<210> 396
<211> 164
<212> DNA
<213> Homo sapiens

<400> 396
caggggggcc tgagagtaac agtgaggatt atccaggtgc cctgagtgta acagtgagga 60

ttatccaggg gggccctgag tgtaacagcg aggattatcc agggggccct gagtgcaaca 120

gtgaggatta tccaggggggg cctgagtgta acagtgagga ttat 164

<210> 397
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (139)..(139)
<223> n is a, c, g, or t

<400> 397
caaaaatgag tcacaactct tgattccatc cacctccaaa atccaggtat tttccttaat 60

tctcattctt tcacaactcc acatatatcc atatcctcat tatctcagga caacgtgacc 120

atttcttgcc acttcccanc acttccatgc ctaccaaaga agcctatctt ctctcaccag 180

gaccactgaa aaagtcttgc aactgatttc ccttgtcctc ttcttgcctc tctacagtca 240

attctctata caacagtca 259

<210> 398
<211> 104
<212> DNA
<213> Homo sapiens

<400> 398
tgctgcggtc gcctctctca ggctcccccg ctcccccggg cctccgcttc tcagccgggt 60

gctgtgcgtt tgagtgtgtg ctgctgctcg ctgtgtgtgc tgtg 104

<210> 399
<211> 147
<212> DNA
<213> Homo sapiens

<400> 399
tatatacatg gtgctcaata gcaacatctt agcagatgaa gcagtttatg attccactcc 60

ctcctgtatg acaggtagcc actatactga atcaaggtgc tgaactcaaa tcacaaaatt 120

ctggcttacc gatacaacaa ccaatac 147

<210> 400
<211> 208
<212> DNA
<213> Homo sapiens

<400> 400
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cttttattaa taaagaagag acacaggtgt agatatgtat atacaaaaag atgtacggtc 120

tggccaaacc accttcccag cctttatgca aaaaaagggg agaatcaaag ctttcatttc 180

agaaatgttg cgtggaaaag tatctgta 208

<210> 401
<211> 139
<212> DNA
<213> Homo sapiens

<400> 401
aaaaagagag aatatgtcct gtgttagctt gcttaggaaa taaagagaga gagagagagg 60

gagggaggga aagagagaaa gagagagaga gaaagagagt gagagaaaga gagagcaaga 120

gagcaagagt aagaaagaa 139

<210> 402
<211> 243
<212> DNA
<213> Homo sapiens

<400> 402
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tttgaaattg acttaactat tttcctttga agagtctgta gcacagaaac agtaaaaaat 120

ttaacttcat gacctaatgt aaaaaagagt gtttgaaggt ttacacaggt ccaggccttg 180

ctttgttacc attctgatgt tggactaatt gactaatcac ctacttatca gacaggaaac 240

ttg 243

<210> 403
<211> 298
<212> DNA
<213> Homo sapiens

<400> 403
agaggcccat gccaacagtc taatctaaga gattagtctt tcaaactcac catccagttg 60

cctgttacag aataactctt cttaactaaa aacctagtca aacaaggaag ctgtaggtga 120

ggagatctgt ataatattct aatttaagta agtttgagtt tagtcactgc aaatttgact 180

gtgactttaa tctaaattac tatgtaaaca aaaagtagat agtttcactt tttaaaaaat 240

ccattactgt tttgcatttc aaaagttgga ttaaagggtt gtaactgact acagcatg 298

<210> 404
<211> 193
<212> DNA
<213> Homo sapiens

<400> 404
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cgatcctgcc gggcacagcc gcgcccgcgc ctccggcgcc gtccccgggc tgacggggga 120

gggagcggag aagcgagcgc agattctgcg tataaatcag ctctggagca gacacagccc 180

ggctgtgaaa agc 193

<210> 405
<211> 275
<212> DNA
<213> Homo sapiens

<400> 405
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gcacggtcag gttagggctg gacagatgag gaagagctag caaaggggggc ttgaggagca 120

gtggccacta agacaggagt gtgacatttt agaagccaaa agaagaccat gtaattcaag 180

ggagaggtat gatttgctgg gtcagatcta aaaataaatc acacgttttt ttaaactgta 240

gtaattaacc actgaaaact tatgagtgat ccaat 275

<210> 406
<211> 143
<212> DNA
<213> Homo sapiens

<400> 406
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gccaggctgg tcttgaactc cttccctcgc tcccccaaaa atttgaattt ttttttcaac 120

acttttacac ctgttatgga aaa 143

<210> 407
<211> 263
<212> DNA
<213> Homo sapiens

<400> 407
gagatcactt ggtaactggt ttcatgtgta tccaaaaatc agcatttgga tttaagcttt 60

ctgaatttgg tagtttaaga aacagattta gtttttcagt ggttttaact catgtgaaat 120

aatgattttc caccagcttt gatgcaaaga gatataattt taatgaacga tttatccagc 180

agtttgttcc aggggttgcc tctccttatt tacggggatt actttgtaca tgcagataag 240

ttttcgcaaa cctatttcca ttt 263

<210> 408
<211> 300
<212> DNA
<213> Homo sapiens

<400> 408
gatgataatc tttactggtg aaaaggatgg aaaaataaat caacaaatgc aaccagtttg 60

tgagaaaaaa aaaaaaaagc cgaaaaaaaa aaaaaaaaca cctgaatgcg gaagagctcg 120

gctcccgttt agcattttgt acttaaggaa ataaaaaacc aacaaaggat ctcacatttt 180

cttaaaaagt gaagattgct gtatactatt tattcaactt ataatttatg ttactccttg 240

atctttgtct tttgtcatga caaagcattt atttaataaa gttatgcatt cagttcccaa 300

<210> 409
<211> 238
<212> DNA
<213> Homo sapiens

<400> 409
agaattccag ataaacacac agcctttccc atacctttt ttttcttact ataaaatatt 60

ataagatcca ttgatgtcca aataatacca ccgagcatct cttcacctct cctcctcttg 120

gtccacttgc taatgcccag ttttcttctc catttccact ttttcttagg ctccctattt 180

actattcatt ttgacttcct tctgtcttat ttttttccct ttagcattgc atgtgaat 238

<210> 410
<211> 101
<212> DNA
<213> Homo sapiens

<400> 410
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tagctgcggg gatgcataaa gtatgagtgc tttttaggat g 101

<210> 411
<211> 34
<212> DNA
<213> Homo sapiens

<400> 411
tttatgaaca gcagactcta tgtaaaggca tttt 34

<210> 412
<211> 168
<212> DNA
<213> Homo sapiens

<400> 412
aggagggaaa ataatagccc agtgagagct gaatgaaaag ggactgaatt taaatatttg 60

taagaacttt gtgatgatga gtaattgtca gacgtgggat agataactga gaggctcaga 120

atctttacca aggatatttt ttaggataag gtagctgcct gttcatga 168

<210> 413
<211> 150
<212> DNA
<213> Homo sapiens

<400> 413
agggacccag taagaccaaa ggaggggagg acagagcatg aaaaccaaaa tccatgcaaa 60

tgaaatgtaa ttggcacgac cctcaccccc aaatcttaca tctcaattcc catcctaaaa 120

agcactcata ctttatgcat ccccgcagct 150

<210> 414
<211> 124
<212> DNA
<213> Homo sapiens

<400> 414
ggctcaggtc ctccctacaa gacctaccac tcacccatgc ctatgccact ccatctggac 60

atttaatgaa actgagagac agaggcttgt ttgctttgcc ctcttttcct ggtcaccccc 120

actc 124

<210> 415
<211> 93
<212> DNA
<213> Homo sapiens

<400> 415
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gtgataatgg tctgtttagc acttctgtat tta 93

<210> 416
<211> 76
<212> DNA
<213> Homo sapiens

<400> 416
ggaggatgcg ctgtggggtt gtttttgcca taagcgaact ttgtgcctgt cctagaagtg 60

aaaattgttc agtcca 76

<210> 417
<211> 220
<212> DNA
<213> Homo sapiens

<400> 417

tctggtagat aaagccctag accttgtcca cactctcacc cccatcccca actttccctg 60

gaccggtgcc gcccccactt gatgcttgct caaggccggg gactggagcg ggctacttgt 120

atatttcgtt gtcagtctgc agaatgtgtt tgatttttat ttttccctcc ttctctgaca 180

tgtgtcaagg aataaagact ggatacaggt ccattacgtc 220

<210> 418
<211> 98
<212> DNA
<213> Homo sapiens

<400> 418
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aaaactcata ccgtcgttct cagcggaact gaggtcca 98

<210> 419
<211> 97
<212> DNA
<213> Homo sapiens

<400> 419
ggccaaaaag tctacattgc gtgtgtggat ggatgaatga gcagtgggag tgcagcgcca 60

ggtgacaaga tgttgtgagg ggttttgagt catccag 97

<210> 420
<211> 87
<212> DNA
<213> Homo sapiens

<400> 420
gccctgcgcc ggcaaccacc tagtggccca gggaaggccg ataatttaaa cagtctccca 60

ccacctaccc caagagatac tggttgt 87

<210> 421
<211> 36
<212> DNA
<213> Homo sapiens

<400> 421
aaaaaagttc aactagtatg aaagggttat aaagta 36

<210> 422
<211> 116
<212> DNA
<213> Homo sapiens

<400> 422
gtgagtaaat aatgttctag tgcaacagga caaactactc tctccacagg aaacccaacc 60

acaacaggat caatagaaag aaaagagaaa acgttagccc ccaactacaa ataaat 116

<210> 423
<211> 264
<212> DNA
<213> Homo sapiens

<400> 423

tttcttcttt atgtccaatt ttgtgggtgg gaggaggatt tagtctcttc ctgatttcga 60

agagctcatt tactatttcg ggaaataaga tttggattgt caaccattat agctattttt 120

tacacacttt tcaactttgt ttttgttata agaatgtgta tgattgttac atgtccaagt 180

ataaccatgt tcgcttttat ggcttttgag tttcatgtca tttttggaaa gatatatata 240

ttgagtccat aaaacccttc acct 264

<210> 424
<211> 119
<212> DNA
<213> Homo sapiens

<400> 424
actttaataa aggttatcca taccaataaa aagtgtacaa cacagcattt tctgttaaat 60

tattattggt tttcagttgt aatttggtat tttttctggc atgcgtttat taatttatt 119

<210> 425
<211> 279
<212> DNA
<213> Homo sapiens

<400> 425
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gcacggtcag gttagggctg gacagatgag gaagagctag caaaggggggc ttgaggagca 120

gtggccacta agacaggagt gtgacatttt agaagccaaa agaagaccat gtaattcaag 180

ggagaggtat gatttgctgg gtcagatcta aaaataaatc acacgttttt ttaaactgta 240

gtaattaacc actgaaaact tatgagtgat ccaatatta 279

<210> 426
<211> 130
<212> DNA
<213> Homo sapiens

<400> 426
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ttctgtgggc ttggggaacc tctcacgttg ctgtgtcctg gtgagcagcc cgaccaataa 120

acctgctttt 130

<210> 427
<211> 262
<212> DNA
<213> Homo sapiens

<400> 427
tttcactctt gctgtctgct cctctcacat catccttgcc tctgtctgtt taatcctcct 60

gtccttcatt ttccttttt gcctctgcat tcagcatttc tacttccaat ctccctcctc 120

tgctctttct tatttcctct gatctgcaga cttgcttctg tcccctcctt ctgttcccct 180

cctggatgtg tctttggcca acctttcctt ctctgagact tcgtgttctt gttggtagat 240

gggggctgat acttctgggt ct 262

<210> 428
<211> 140
<212> DNA
<213> Homo sapiens

<400> 428
ttattattat gaaccttcag cctactttct tgagtgccgt aaaagtgctt gtaaattttt 60

ttttttttta agaagaaaga aaaaaatggt gtttgacgtt gatggaaatt caaaaatata 120

tatggaactg aaacattaac 140

<210> 429
<211> 143
<212> DNA
<213> Homo sapiens

<400> 429
cttgttcttt tgaagcttgt gctgaggttt tagcttttct atgttttata tgccgctgct 60

ttgaaagaga acctagattc tatagttgta ttattgttgt ttcatacttt aaatttatat 120

ggctgtggaa aaacgaatta aaa 143

<210> 430
<211> 151
<212> DNA
<213> Homo sapiens

<400> 430
gtgtgtcaag gatttgacaa actgccattt ttctccagaa gtcaagcccc taagtgattg 60

tctagaggca agaatttttt gatatgttgt ctcaacaatg cttctcactt cgtcttcagg 120

tgccccaacc cgcaagtaca catactatgt a 151

<210> 431
<211> 150
<212> DNA
<213> Homo sapiens

<400> 431
aatgttcata ggttctcaac cctcaccccc caccacggga gactagagct gcaggatccc 60

aggggagggg tctctcctcc caccccaagg catcaagccc ttctccctgc actcaataaa 120

ccctcaataa atattctcat tgtcaatcaa 150

<210> 432
<211> 115
<212> DNA
<213> Homo sapiens

<400> 432
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tggattttgg ttttcatgct ctgtcctccc ctcctttggt cttactgggt ccctc 115

<210> 433
<211> 223
<212> DNA
<213> Homo sapiens

<400> 433
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ttatgtgcat acaaatcacc tgggatcttg ttagaaggca gtaggtctgg ggtggggcct 120

gagattctgc atttctaacc aggtcctggg agatgctgat gctatcgagc cacaaccaca 180

ctttgagtag caagcctctg gcctatcctt attgtttgtt ata 223

<210> 434
<211> 272
<212> DNA
<213> Homo sapiens

<400> 434
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gtccttcatt ttccttttt gcctctgcat tcagcatttc tacttccaat ctcctcctc 120

tgctctttct tatttcctct gatctgcaga cttgcttctg tcccctcctt ctgttcccct 180

cctggatgtg tctttggcca acctttcctt ctctgagact tcgtgttctt gttggtagat 240

gggggctgat acttctgggt cttgggcatg tc 272

<210> 435
<211> 221
<212> DNA
<213> Homo sapiens

<400> 435
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tttcagatga ggagggagag aaggaggccg ccagactcga gaggtgggag gaactccttg 120

cacacaccct gagcttttgc cacttttatc atttttgagc aactcccttt cagctaaaag 180

gccacccctt tatcgcattg ctgtccttgg gtagaatata a 221

<210> 436
<211> 183
<212> DNA
<213> Homo sapiens

<400> 436
acaaaactct ccaataatga ctctgctcag ctcaggggca gcaggagtgg agtgtcgggg 60

gcccttggtg ctgagtgaag ataaattaaa aatcccaaca agccagtgac attatgtaca 120

ggaggaaagg ggtggggctt ccaggacaga ggccgagggt ggcagggcag gacttggagt 180

ggc 183

<210> 437
<211> 237
<212> DNA
<213> Homo sapiens

<400> 437
cagacacatg agcaggactt tggggagtgt gttttatatc tgtcagatgc ctagaacagc 60

acctgaaata tgggactcaa tcattttagt ccccttcttt ctataagtgt gtgtgtgcgg 120

atatgtgtgc tagatgttct tgctgtgtta ggaggtgata aacatttgtc catgttatat 180

aggtggaaag ggtcagacta ctaaattgtg aagacatcat ctgtctgcat ttattga 237

<210> 438
<211> 189
<212> DNA
<213> Homo sapiens

<400> 438
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aagaaacaag ttagaaggtt atgacaggaa gtagtataat aaatgcccgg cagtacgagg 120

ggttcaacag aagtgaacaa ggcacaagaa agaggtctgt gttcaggaaa caggccagtc 180

cccacatgg 189

<210> 439
<211> 246
<212> DNA
<213> Homo sapiens

<400> 439
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gaaattaatg aaagatgttt acatgaataa tgtttgccct tactgtgtta tgaatgagtt 120

ttttgtagtg tgtctgggtg catgatgcaa gagagtagga aaaatgtttt tgaaacaaaa 180

cttgacaaat atttgtaatg aaagtaaatt taaagattgc tataattgcg ctatagaaac 240

aatgca 246

<210> 440
<211> 65
<212> DNA
<213> Homo sapiens

<400> 440
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aatat 65

<210> 441
<211> 120
<212> DNA
<213> Homo sapiens

<400> 441
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acttccttgg aatatagctg cattaacttg gaaagaagcc tgttgggcca gaagacagaa 120

<210> 442
<211> 156
<212> DNA
<213> Homo sapiens

<400> 442
aactgatggg aaaggaccaa ttatttatag tttcccaaca aaagttttaa gatttttac 60

ctttgcatca gtgcattttt atttatatca aaaggtgcta aaatgattca atttgcattt 120

tttgatcctg tagtgcctct atagaagtac ccacag 156

<210> 443
<211> 169
<212> DNA
<213> Homo sapiens

<400> 443
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tcccccaatg aaatacacaa gtaaacattc caacattgtc tttaggagtg atttgcacct 120

tgcaaaaatg gtcctggagt tggtagattg ctgttgatct tttatcaat 169

<210> 444
<211> 87
<212> DNA
<213> Homo sapiens

<400> 444
aaatgacttt caactaacct tgtgaatctt ttgcagtgta ctgtgtgcaa taccaagggc 60

atagctccct gtaatttggg aaataca 87

<210> 445
<211> 96
<212> DNA
<213> Homo sapiens

<400> 445
catatatttt ttgctacttt tgctgtttta ttttttttaaa ttatgttcta aacctatttt 60

cagtttaggt ccctcaataa aaattgctgc tgcttc 96

<210> 446
<211> 269
<212> DNA
<213> Homo sapiens

<400> 446
tgctggcact gatattatcc atcatctctt tttggacact tctgtaaatg tgattggatt 60

gtttgaaaga agatttaaag tttcaaagtt ttttgttctg tttttgcttt gcatttggag 120

aaaatattga aagcagggta tgttgtttca ttcaccttga aaaaaccatg agtaaatggg 180

gatatagaat ctctgaatag ctcgctaaaa gattcaagca agggacatga attttgttcc 240

atctatcaat aatatccaga agaacaact 269

<210> 447
<211> 188
<212> DNA
<213> Homo sapiens

<400> 447
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ccatttgttt agtatccgtg cacatgtcgt actagacccc aatcaagttg cttatttaaa 120

attctttcag ctgtttccct attatttcct tactttgctg aacatgtccg ctgttttacc 180

tcactgct 188

<210> 448
<211> 246
<212> DNA
<213> Homo sapiens

<400> 448
ggagccaaca attcgagtgc aaacatgatg gctcagaccc ttctctgccc tttactagcc 60

ttcatgatct gtcgggtctc agcagctcag gccacaggag gaggtgggtc tcctgactgg 120

cctgtgcatt ctcccaaaca agatgtttaa gactcttctt tatctcgtca caaacgcaca 180

ggacacacac gcacacacat gcacacacag tttacaaacg cacggtacac acacgcatga 240

cacatg 246

<210> 449
<211> 217
<212> DNA
<213> Homo sapiens

<400> 449
agcgaaggga aggttgcggg agaaagagcg ggggccgggg ccagacgcca agaggggcgc 60

ggggagcaca gagaagcgga gggaagggcg ccacgtcgag gggccggggg aggcggtgac 120

tgggggggcgg agtggaggct gcacccggac cgcgggcgcc cagctcggtt tgggccgacg 180

gagccctctg ccgtcgcgag cccgggcctc gggaggg 217

<210> 450
<211> 172
<212> DNA
<213> Homo sapiens

<400> 450
tgcagtgcta gtcccggcat cctgatggct ccgacaggcc tgctccagag cacggctgac 60

catttttgct ccgggatctc agctcccgtt ccccaagcac actcctagct gctccagtct 120

cagcctgggc agcttccccc tgccttttgc acgtttgcat ccccagcatt tc 172

<210> 451
<211> 188
<212> DNA
<213> Homo sapiens

<400> 451
tattcctggt agaggaattt ctgtatttga aaattctcca gaaggaataa tataaactgt 60

ggactttggg tgataatgat atgtaggttc gtcagttgtt aacaaatgta tccctctgtt 120

gggggctatt gataatgggg aaggctgtgc atgtgtggga gtaggaggtg tatgggacat 180

ctctgtac 188

<210> 452
<211> 242
<212> DNA
<213> Homo sapiens

<400> 452
aaagagtcaa ctttccggcg gcgggggaga aatgataaaa gagagagagg agggcagatc 60

accacctaga agcacatcct ttgttcgcag agggggggaga aaaagtcgga gagaaagaat 120

gaaagagggg aaaaaaggca gttcggcacc cggagaaagg aggcaattcg gggagaggag 180

gaggagaaga agaaaacaca cacgcgcgca cgcacacaca caccgcggag agaaaagaac 240

ag 242

<210> 453
<211> 33
<212> DNA
<213> Homo sapiens

<400> 453
gtgagcccat atcgtactgc tgcagtccag cct 33

<210> 454
<211> 83
<212> DNA
<213> Homo sapiens

<400> 454
taaccttagg aaaccagaat agcgtttggc agacacgacg ttttcagttt acctttgaca 60

cctgccccac tccattttgc ttt 83

<210> 455
<211> 232
<212> DNA
<213> Homo sapiens

<400> 455
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cctgttggaa ttaatttaag cttaagtata tatcaacatt attttattgt gcaattaaaa 120

caatacaaat tcatggtttt ttaaagttaa aaattttaac cactgtaaca acagtttttg 180

tgttattttc tgtattaaac atcttgttgc acgcatttga ggtcatcagg gt 232

<210> 456
<211> 275
<212> DNA
<213> Homo sapiens

<400> 456
acacaataca atcaggagtt ttcaaatttt tgattcagta tttgaatttc ttcttcataa 60

atgtagttgg aatttatcct agtatttttc tttacctgaa ggagggccat ttatttttaa 120

tttcactaca tttttctttg catgattatt aaaataaaaa ctgcctctgt tgtgtttctc 180

actggaggct ggaatgaatg atcactagaa cacaaaagag tgaatgatga cacttgaagt 240

caaagcagtt gtactgatca ccagaaccaa taaag 275

<210> 457
<211> 220
<212> DNA
<213> Homo sapiens

<400> 457
ctaattgatt agaactgagt cttttatatc aagctaatat ctagctttta tatcaagcta 60

atatcttgac ttctcagcat catagaaggg ggtactgatt tcctaaagtc tttcttgaat 120

ttctattatg caaaattgcc ctgaggccgg gtgtggtggc tcacacctgt aatcccagca 180

ctttgggagg ctgaggtggg aagatccctt actgccagga 220

<210> 458
<211> 187
<212> DNA
<213> Homo sapiens

<400> 458
ttctttatag tgttatgctt attttcaatt tttttttttcc tgattctgtc tggtacttag 60

aattgtagtg tcttcatcat caattaaaga aaactgtcta aatgaattca tggatgtaaa 120

tattagtggt ccttaatgtc tttgattgct ggacatgaaa caaactgcca attaaatttt 180

gcggaga 187

<210> 459
<211> 176
<212> DNA
<213> Homo sapiens

<400> 459
tcctgcaggc atccgtgggg gaaaaaaaat ctctcagaac cctcaactat tctgttccac 60

acccaatgct gctccaccct cccccagaca cagcccaagt ccctccgcgg ctggagcgaa 120

gccttctgca gcaggaactc tggacccctg ggcctcatca cagcaatatt taacaa 176

<210> 460
<211> 266
<212> DNA
<213> Homo sapiens

<400> 460
aaatgtttga cattcattat cagaatgagg gaaaatttaa acaattccgt tttttctttt 60

gctagtaggc atattatgct aataaaatta ctaaattaaa agtgtgtcaa ggatttgaca 120

aactgccatt tttctccaga agtcaagccc ctaagtgatt gtctagaggc aagaattttt 180

tgatatgttg tctcaacaat gcttctcact tcgtcttcag gtgccccaac ccgcaagtac 240

acatactatg tactcacttg aaaatg 266

<210> 461
<211> 286
<212> DNA
<213> Homo sapiens

<400> 461
aactgggggc tctgtggggg ctctgtatat agctatgaag aaaacacaaa gtgtataaat 60

ctgagtatat atttacatgt ctttttaaaa gggtcgttac cagagattta cccatcgggt 120

aagatgctcc tggtggctgg gaggcatcag ttgctatata ttaaaaacaa aaaagaaaaa 180

aaaggaaaat gtttttaaaa aggtcatata ttttttgcta cttttgctgt tttatttttt 240

taaattatgt tctaaaccta ttttcagttt aggtccctca ataaaa 286

<210> 462
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (214)..(214)
<223> n is a, c, g, or t

<400> 462
gctggtctcg ggcaacaagc agcctcctag gagcagaagg tgatggaggg ccacgggggc 60

agggaggagc agatggccat gtggctcagc ccctgcctgg gaaagcgagt ccacagttca 120

ctaacaaaca caataccatc cacaaacaag tagccacaaa gaccacagtt agcaaacaca 180

cacagtcaca cacacacaca cacacacaca catnacggga ggtgggcagg accgcagtct 240

gcagtgggga ggcaagtgtt agttgcatca tcaggtgg 278

<210> 463
<211> 122
<212> DNA
<213> Homo sapiens

<400> 463
aggtggtgtt ggcagaggct atcgggctgg acaaggacaa acccaaccgt gtgaccaaag 60

tggctgtgaa gatgttgaag tcggacgcaa cagagaaaga cttgtcagac ctgatctcag 120

aa 122

<210> 464
<211> 161
<212> DNA
<213> Homo sapiens

<400> 464
aatgaaattg ttaattggcc aggcacagtg ggaagcacct gtagtcccag ctactcagga 60

ggctaaagtg agagggtggc tctagcacag tcatcaaggc tgcaggaggc tatgatggag 120

ccactgcact ccagcctaga tgacaaggtg agacgctgtc t 161

<210> 465
<211> 162
<212> DNA
<213> Homo sapiens

<400> 465
tgtttttgac atcagctgta atcattcctg tgctgtgttt tttattaccc ttggtaggta 60

ttagacttgc cctttttaa aaaaaggttt ttgcatcgtg gaagcatttg acccagagtg 120

gaacgcgtgg cctatgcagg tggattcctt caggtctttc ct 162

<210> 466

<211> 114
<212> DNA
<213> Homo sapiens

<400> 466
tttttttagtt gccaacagtt tatgtttgct gattatttat gacctgaaat tatatatttt 60

ttttttttaag aagacatttt gttacataag gatgactttt ttatacaaag gaaa 114

<210> 467
<211> 223
<212> DNA
<213> Homo sapiens

<400> 467
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ttaataaaat ttaaaattaa aactgtgttg tttttttctc ttctgctaga tacatatata 120

attaaagtac tcaagttagt tgttttgcag agatgttgcc ttcagatgtt aatcaggtct 180

ctcaagtttc atggagtcta tgctgatcct ttaattgaca aat 223

<210> 468
<211> 289
<212> DNA
<213> Homo sapiens

<400> 468
tatacagaat agtcactggt cttgggctaa atggtgactt caagtgtagt ggctgcatag 60

tcaaaaatga attagatgag tacaaaagtg acgaaatgaa agaatgtcaa gaatggacca 120

caaagacagt gttttatgac ctaaagatta agatttatcc atttgtgtac aattgtggac 180

tatataaaat aaaacaagac tttgacctca gtggataaga agtatttgga tgtactaatc 240

aatatttttg gtctgggtca gtggtgggtt catctgtgtt tgttgtatt 289

<210> 469
<211> 36
<212> DNA
<213> Homo sapiens

<400> 469
agcaggatca agggccggaa ataaaggctg ttgtaa 36

<210> 470
<211> 156
<212> DNA
<213> Homo sapiens

<400> 470
aatatacctg atgcgctgta gaatgaaaat gtaaaagata acctgtatgt gttccgagct 60

ttaatttttt gtttacaaat tgaacagtgt tacatgggct gtccagtcct gattatagag 120

aggaagaaat ggtaacagta tggcagataa gaatta 156

<210> 471
<211> 298
<212> DNA
<213> Homo sapiens

<400> 471
agcaggagta agtttctcat cccatgggcg accagggcca tctcctccca ccagtggccc 60

ccactcacag ggagctggca atgccctacc tgcctgttct ccagatggag aaacaggctc 120

tgagatttca caggtcttgc ccaaagtcat tgattttgat gattaaaaag aataaacaca 180

gtgtttcctg agtagcagtg attgttatgc cttgctattt taataaagat tctattttcg 240

tataacattg tcaagtggaa acatgctgaa atctattaaa ccatctttgt ttgtggaa 298

<210> 472
<211> 98
<212> DNA
<213> Homo sapiens

<400> 472
aaagagtcaa ctttccggcg gcgggggaga aatgataaaa gagagagagg agggcagatc 60

accacctaga agcacatcct ttgttcgcag aggggga 98

<210> 473
<211> 103
<212> DNA
<213> Homo sapiens

<400> 473
gtttgtcttg cgcagtgctt actccagctg tggcatgcag gtgtcagcaa gtatgatcag 60

caatgaggcg gtggtcaata tcctgtcgag ctcatcacca cag 103

<210> 474
<211> 191
<212> DNA
<213> Homo sapiens

<400> 474
aatctctttt tttctggagg ctggcacctg attttgtatc cccctgtagc agcattactg 60

aaatacatag gcttatatac aatgcttctt tcctgtatat tctcttgtct ggctgcaccc 120

ctttttcccg cccccagatt gataagtaat gaaagtgcac tgcagtgagg gtcaaaggag 180

agtcaacata t 191

<210> 475
<211> 220
<212> DNA
<213> Homo sapiens

<400> 475
tgcccccagt atgtttagga cgcgagcccc agaaggattt gggagtaaac ttaacattca 60

ctgtgttttt gctttgcatc cgccatttgt gtgtgttttt ggactgtggg ctgtgtgtac 120

cttggttggt gactcagtga gaagaagcag gaatgccaaa gatactatga atgttttgag 180

ttttgttgct gttgttgttg agaggttgtt tcactggtat 220

<210> 476
<211> 258
<212> DNA

<213> Homo sapiens

<400> 476
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tgactttaca acatctttaa taattcccca ttacaaaaga taaggattta acttacacta 120

tcgccacttt cctttgtcca tctctctcca aatgtctgat agttacatca ctttttaata 180

catctattgg tttgatttta tagctttgaa caatacacta atcctctagt tcttgttcca 240

ttaactgaag atcttttc 258

<210> 477
<211> 233
<212> DNA
<213> Homo sapiens

<400> 477
gaaacacaag agacttaaag gacaggagga ggagatggcc ataggagagg agggttcctc 60

ttaggtcaga tggaggttct cagagccaag tcctccctct ctactggagt ggaaggtcta 120

ttggccaaca atcctttctg cccacttccc cttccccaat tactattccc tttgacttca 180

gctgcctgaa acagccatgt ccaagttctt cacctctatc caaagaactt gat 233

<210> 478
<211> 96
<212> DNA
<213> Homo sapiens

<400> 478
ggatcgatga tgagtccccc ataaaaacat tccttggaaa agctgaacaa aatgagtgag 60

aactcatacc gtcgttctca tcggaactga ggtcca 96

<210> 479
<211> 181
<212> DNA
<213> Homo sapiens

<400> 479
tggtgacaga gtttgggacc gaggtggagc ccgagtttgg gaccaaggtg gagcccgagt 60

ttgagaccca gttggagcct gagtttgaga cccagctgga acccgagttt gaggaagagg 120

aggaggagga gaaagaggag gagatagcca ctggccaggc attccccttc acaacagtag 180

a 181

<210> 480
<211> 135
<212> DNA
<213> Homo sapiens

<400> 480
gatatcagat cagttgagac taacagttga aagcagtaaa catattacgg acatattatt 60

gataaaagac atttatgaag aggataaact gtgaaggtgt acagacacta aaccatagtt 120

gctaaacaca tacaa 135

<210> 481
<211> 80
<212> DNA
<213> Homo sapiens

<400> 481
agagccagga cagtgaggtc aactttgaca attccatcca cccagaagtc ttggagctgc 60

tgcttgacta tgcgtactcc 80

<210> 482
<211> 96
<212> DNA
<213> Homo sapiens

<400> 482
ggatcgatga tgagtccccc ataaaaacat tccttggaaa agctgaacaa aatgagtgag 60

aactcatacc gtcgttctca tcagaactga ggtcca 96

<210> 483
<211> 290
<212> DNA
<213> Homo sapiens

<400> 483
ttgacagtct gccttactat gaaattctag gtacaaaaat ttccttaag ctctgaagat 60

gttgatccat tgacttctgg cattcagtgt tgctgatgac aaatctgtta gcagtctatt 120

tctcatccat ttttgtgttg agctaatcgt gatgacctca tttgttttct ccctggccac 180

tttaatatct tccttctatc cttaatattc caaaatttta caatattgtg tctagatgta 240

gattgtattg ggccctctca atctggagac ttagcttgct ctgttcttca 290

<210> 484
<211> 197
<212> DNA
<213> Homo sapiens

<400> 484
atgtcaagaa aatgacggtc acagaccagg tgaactgccc caagctctcg taaccaggtt 60

ctacagggag gctgcaccca ctccatgtta cttctgcttc gctttcccct accccacccc 120

ccccccataa agacaaacca atcaaccacg acaaaggaag ttgacctgaa catgtaacca 180

tgccctaccc tgttacc 197

<210> 485
<211> 113
<212> DNA
<213> Homo sapiens

<400> 485
tgtcactggt gaaagacgac ttggtgccca atttttaata aacacaatgc tattagcgtc 60

actccaattt agtgtctgat tgttaaatgt taatgtactg cactctacag ttt 113

<210> 486
<211> 183
<212> DNA

<213> Homo sapiens

<400> 486
ggattataat atcctcactg gccacaatct gtaaaagtcg atactggcac ttttttgcc 60

ccctcaaagg aaatatgcta atagacagcc cctttgcaaa tataattcct ccttcccaac 120

ccttcaaatt gctaaggccc cactggtcag caccttccct ttcgagtcca ggactactgt 180

tct 183

<210> 487
<211> 275
<212> DNA
<213> Homo sapiens

<400> 487
agcattaata atttccatgc atgtgtcttt ttccagtagg tatggttgaa tttatgtaaa 60

tttattgcta atcccatccc ttacgattta gagtataagc tgcgcaaggg cagaagtttt 120

tatttggttt gttcatggat gtattttaag agctgagaac agggcctgga cacaataagc 180

attcaataaa tatttactga atgaatgaac tcctacctat attcctattt ataatttggc 240

tccactttat cctactttag ctcccattca attca 275

<210> 488
<211> 123
<212> DNA
<213> Homo sapiens

<400> 488
catttaaata agaggagatc cacaaagagc aacagagata agagaagaaa ggaaataatc 60

aataaaataa ttcaagaaaa tccaaggaca tgagttttca gattgtaaga gactacttga 120

gtg 123

<210> 489
<211> 99
<212> DNA
<213> Homo sapiens

<400> 489
aattcatatc ccctgttcgt ctcatgcgcg tcctccgtcc ccaatctaaa aagcaattga 60

aaaggtctat gcaataaagg cagtcgcttc attcctctc 99

<210> 490
<211> 97
<212> DNA
<213> Homo sapiens

<400> 490
tggatcgatg atgagtcctc caaaaaaaca ttccttggaa aagctgaaca aaatgagtga 60

gaactcatac cgtcgttctc atcggaactg aggtcca 97

<210> 491
<211> 119
<212> DNA
<213> Homo sapiens

<400> 491
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atgtctgtta ctgaggaggc accagcataa agtattttat cacttcagac gctgacaat 119

<210> 492
<211> 121
<212> DNA
<213> Homo sapiens

<400> 492
ttatatttat gtttagcacc gtcagtgttc ctatccaatt tcaaaaaagg aaaaaaaaga 60

gggaaaatta caaaaagaga gaaaaaaagt gaatgacgtt tgtttagcca gtaggagaaa 120

a 121

<210> 493
<211> 168
<212> DNA
<213> Homo sapiens

<400> 493
gtttgagcta tcgaagagta agtaaccaga aatttgagaa cagcctgggc agcatagtga 60

gaccccatct ttacaaaaac ttcacagatt agccaggtat ggtggcattt tcctgtagtc 120

ccagctactc agaatgctga ggcaggagag tggcttgtga ccaagagt 168

<210> 494
<211> 47
<212> DNA
<213> Homo sapiens

<400> 494
aggataaact tgtgtggtgt agagaagtta aaatcctcac gttgtac 47

<210> 495
<211> 286
<212> DNA
<213> Homo sapiens

<400> 495
acttcaggga agtttcataa aaggaagaat tttaactcag cgtagaaaga tgggtaaatt 60

ttcctcatgt gaaggtgtac tgcctggggt gctgcaggct ggagatgagt attaaaatag 120

gaggagagtg agtgaaagca caggaggagg aagggtcagg caagtttggt gaacacagca 180

actggctata gaacaggagc agtgggagaa agtccagaaa ggtctgctga gcttcagttg 240

tacaaagctg tggagtttgg cctttggtca tggctagatt aggtct 286

<210> 496
<211> 94
<212> DNA
<213> Homo sapiens

<400> 496
tggatcgatg atgacctcaa tacatgcatt ccttggaaag ctgaacaaaa tgagtgaaaa 60

ctctataccg tcgtcctcgt caaactgagg tcca 94

<210> 497
<211> 174
<212> DNA
<213> Homo sapiens

<400> 497
gtttgaggta tttaactgac acctaagtgg atctgttgag gaaacagttg gatatacaaa 60

tttagtgttt aaggcagact tccaggcttg aaggaaaaat ttggaagtca tcacgacata 120

tatgtggtat ttaaaattgt gaggttcaag gaccaagccc cataccattt agag 174

<210> 498
<211> 255
<212> DNA
<213> Homo sapiens

<400> 498
tggagatagc tcttaaagat ataaatgttt atggctgaaa tgttatggca tcttggattt 60

gctttaaaat aacccagctt gctgcaggag gtgggtattg tgtgtgtggg aaggtgggga 120

ggctgcggga ggaagagatg acccaagatt aggcagatgt tgttaactgt ggaagcaggg 180

tggtgagtgg gggctcatga cattatgctc tctactttgt gtacgtgtga acatttccgt 240

aataaaagat gcctt 255

<210> 499
<211> 137
<212> DNA
<213> Homo sapiens

<400> 499
ggatttttc ccctgtagta gtgaggtaac atgcttgaat gtcactgtga tatttatttc 60

ctctttgttc agttgttttt gaattcctgt taagtacatg ttttaatact ttgagcgatt 120

taagatactt ttctttt 137

<210> 500
<211> 33
<212> DNA
<213> Homo sapiens

<400> 500
aaacgatgat aatctttact ggtgaaaagg atg 33

<210> 501
<211> 195
<212> DNA
<213> Homo sapiens

<400> 501
tatgagttat tcaaggagga gacttttaa agacagcaac gcaattcttg taacttgtgt 60

aaatagcccc atctttcaga gtgataccat ttctacattt gataatgcct gtattcctgt 120

aggatgtata tagtttaggg gatttttttt ttgtttggtt ttgtttttta gaagtcaata 180

tgtctggttt tattt 195

<210> 502
<211> 255
<212> DNA
<213> Homo sapiens

<400> 502
attattttga tagcagatgt gctatttatt tatttaatat gtataaggag cctaaacaat 60

agaaagctgt agagattggg tttcattgtt aattggtttg ggagcctcct atgtgtgact 120

tatgacttct ctgtgttctg tgtatttgtt tgaattaatg acctgggata taaagctatg 180

ctagctttca aacaggagat gcctttcaga aatttgtata ttttgcagtt gccagaccaa 240

taaaatacct ggttg 255

<210> 503
<211> 217
<212> DNA
<213> Homo sapiens

<400> 503
gtgtgttaaa atgagggtct cactgcttta ggattgaagt ggctggaaag agtgatgcct 60

ggggaaggag atggagttat gagggtactg tggctggtac tttctgtact aaacatttcc 120

tttttctatt ttaccactaa ttttgtttta aactgtgagc cgtccaagtc agaagaagac 180

agcaaaaaaa gcaacttttc caacatacaa tttactt 217

<210> 504
<211> 92
<212> DNA
<213> Homo sapiens

<400> 504
cctgcctggg aaagcgagtc cacagttcac taacaaacac aataccatcc acaaacaagt 60

agccacaaag accacagtta gcaaacacac ac 92

<210> 505
<211> 251
<212> DNA
<213> Homo sapiens

<400> 505
atataattgg acaaacgctg gcaaaaagaa aaaaatggta agcaaaaaac ccaagataaa 60

gtttcgagga catcaggcct tttgaaatac aatgtcaaat gacacattgt acggtttcaa 120

aaaatccgct agacatgtca taagttttaa ctgtaatgcc caggaaagga tatcttaaaa 180

tattctaaac ttgtgtaaca aaggaataat taactgtaat agtttttcaa taaatcgagt 240

tgggtgtttc c 251

<210> 506
<211> 261
<212> DNA
<213> Homo sapiens

<400> 506
gaatggttac tgtttatact gtggtatgtt tttgattaca gcagataatg ctttcttttc 60

cagtcgtctt tgagaataaa ggaaaaaaaa tcttcagatg caatggtttt gtgtagcatc 120

ttgtctatca tgttttgtaa atactggaga agctttgacc aatttgactt agagatggaa 180

tgtaactttg cttacaaaaa ttgctattaa actcctgctt aaggtgttct aattttctgt 240

gagcacacta aaagcgaaaa a 261

<210> 507
<211> 175
<212> DNA
<213> Homo sapiens

<400> 507
tatttcttgc tattgtgata tgacaagaga cttaacttat cttgctctgt ttttccctgt 60

acacgctgta tataggggtc aatgtgatgc tgctggagac gagaataaac tggactagaa 120

tagtgcattg tatttagtct gtattgatca tggatgccct ccttaatagc catat 175

<210> 508
<211> 251
<212> DNA
<213> Homo sapiens

<400> 508
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gtattgaaat gaaagaatga cagaaagaat gaatggacac atgaacgact gaattagaaa 120

tggaaatgcc tggcacagcc aggaaggagc tgcccatggg attgtcattc atttcactct 180

gggcacctga ggtccataag cgtgaaaaga ggcaggaaga gaagtgtcag ggagtcaaag 240

atagagctaa g 251

<210> 509
<211> 237
<212> DNA
<213> Homo sapiens

<400> 509
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atgacactta caaaaaataa aagaccaaga cacccagagt gagatgcatg ttggggacgg 120

gggaggctgg cagcaggggg gccccggcgg ctcaccccag ggctcccgga gggggctgtt 180

tccatccacc acccaaaaaa acaccacaag ggtcagtcct agcccacccg acagctt 237

<210> 510
<211> 133
<212> DNA
<213> Homo sapiens

<400> 510
gtatggatgg gtatgttgag actcaattac ttttttatta gcttccccgt ttggaagatc 60

ccaaacacca aagatggaag gtgaaaataa agactgcgtg accgggaaga aagtttgaat 120

tactaatagt ggg 133

<210> 511
<211> 263
<212> DNA
<213> Homo sapiens

<400> 511
aatcaaccaa tgcaaccagt ttgtgagaaa aaaaaaaaaa agccgaaaaa aaaaaaaaaa 60

aacacctgaa tgcggaagag ctcggctccc gtttagcatt ttgtacttaa ggaaataaaa 120

aaccaacaaa ggatttcaca ttttttttaaa aagtgaagat tgctgtatac tatttattca 180

acttataatt tatgttactc cttgatcttt gtcttttgtc atgacaaagc atttatttaa 240

taaagttatg cattcagcaa ctt 263

<210> 512
<211> 48
<212> DNA
<213> Homo sapiens

<400> 512
taggttgtca acaggtacta tttgtcacat aactaacttt cgaggcac 48

<210> 513
<211> 161
<212> DNA
<213> Homo sapiens

<400> 513
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attgatcaca ttgtttgacc cagtatgttt tgtagacacg ttagttataa tcaccttgta 120

tctctaaata tggtgtgata tgaaccagtc cattcacatt g 161

<210> 514
<211> 286
<212> DNA
<213> Homo sapiens

<400> 514
gtcttcacca actaagaaag ctctgttatt ctggcctggg tgcttgctcc agactcagga 60

acatctggtc aacacaagca tcactgggct ggggaattgt gtgtgtgctg catcatctcc 120

gactctcttg tagttccttc cttccctccc tcactcttac atgcagacac agacagacac 180

agtctggttg ggacatgcag tggcagctcc tggtgtataa catctttcac acaccttgag 240

tctatctgct tgctgccttt gactgatcct gaaatggttg gccttt 286

<210> 515
<211> 208
<212> DNA
<213> Homo sapiens

<400> 515
gaggccccag aggacttatc tcagctgtac atgctctgcc tgtggagaca tggcttttct 60

ttgtgctgtg gcagactggg gctttggaag tggtgtatgt ttaacttacc tgagagtgag 120

agatgtgtag gaagaatagc tggaagaaag tgaaagatga gtgccagtac ttttggcctg 180

ttatccagta gagagaaagt gacagtga 208

<210> 516
<211> 201
<212> DNA
<213> Homo sapiens

<400> 516
aactctgtaa ggaggaccat gtcagactat tgtaagctaa gcattaggac tgatacaaat 60

aatatatgct cctggcatag aaaaataaac cacagagaac gagttcaaag aatagcaaag 120

aaagaaagag gacccagtgg gcgaaagatg agagtgtact tttaccaaaa gttatctaag 180

cctgagcact tgaagtctgc a 201

<210> 517
<211> 119
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (91)..(91)
<223> n is a, c, g, or t

<400> 517
aaaatagaga gacatacctg gctccaaaac aaggctgtat cttctgccac tgtaataaaa 60

tagatgcaat tgaggttcat aaataaaaga ntaaatactt aaacgtgaaa ggtgactaa 119

<210> 518
<211> 36
<212> DNA
<213> Homo sapiens

<400> 518
ataatgaaag ttagtaacgt ccattattta ataaag 36

<210> 519
<211> 91
<212> DNA
<213> Homo sapiens

<400> 519
tgtacagggt cattttgaca gtaactggta tattcctttg cattttatgt tgcattgcca 60

atttttagtg tatccagttt gaaagtataa t 91

<210> 520
<211> 178
<212> DNA
<213> Homo sapiens

<400> 520
tactgatctt tatattacag attttttttt cttttaggat tagttcagct tgccccccct 60

ttccatttcc accatttata gtgagcctct ccataattag tgccaaccat tagtttcgtt 120

catattttta caccaggagt caacaaactg tggccattgg ccaaatatgg cctcccaa 178

<210> 521
<211> 242
<212> DNA
<213> Homo sapiens

<400> 521
aggaagtacc cgctccataa gacccttaca tttggacagt caaggtgcac aattgtatgt 60

gaccacaacc atgcaccttg gacataaatg tgtgtaactg cacatggccc atcccatctg 120

aataaggtcc tactctcaga ccccttttgc agtacagtag gtgtgctgat aaccaaggcc 180

cctcttcctg gcctgttaac gtatgtgatt atatttgtct gggttccagt gtataagaca 240

tg 242

<210> 522
<211> 199
<212> DNA
<213> Homo sapiens

<400> 522
gggagtcaat gaatagtacc taaaatggaa accaaacaaa acaacttcag gaagtaacaa 60

gggcttgctt agagacatga cggtaaaccc tgaaccatca gctaaaagag gtagatagca 120

gtggttgccc ctggggagag gtaaatgtga tggagaggga acaactgtgt acaaacatgt 180

gactttacgt tttgatcaa 199

<210> 523
<211> 127
<212> DNA
<213> Homo sapiens

<400> 523
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ccaacctttg gaggcccgta gaagtcattt ggaggaattt ggacttcgtg cagtaggaaa 120

gagggaa 127

<210> 524
<211> 46
<212> DNA
<213> Homo sapiens

<400> 524
gacaggggtt ctaattactg tctgtgagag ttactacttt gtaact 46

<210> 525
<211> 115
<212> DNA
<213> Homo sapiens

<400> 525
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caccatttgt ttttacttac caatcactat cattaggttt tgatgcaaat gggaa 115

<210> 526
<211> 138
<212> DNA

<213> Homo sapiens

<400> 526
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tacataagcg gcgtaagttt aaaggatgtt ggtgttccac gtgttttatt cctgtatgtt 120

gtccaattgt tgacagtt 138

<210> 527
<211> 269
<212> DNA
<213> Homo sapiens

<400> 527
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gagtacttgt ggtcattgaa accatggaat ttactcaggg atagtgtata tagtgagaaa 120

tcaggtaact aagatttgag cctaaacgta atctgtaaaa ggggagctca aaggaaaagg 180

gaatgggagg accggatttt gtaaggatag tagggcaaat gttaagagag agaatgagag 240

agttgagtat ggcaaagagt gactcaatt 269

<210> 528
<211> 282
<212> DNA
<213> Homo sapiens

<400> 528
tcacctcctg ctggctaccg gggcaggcat gcacccggtg ccagccccgc tctgggcacc 60

acctgccttc cagcccctcc aggacccggt ccccctgctg cccctcactt caggaggggc 120

ctggagcagg gtgaggctgg actttggggg gctgtgaggg aaatatactg gggtccccag 180

attttgcttt aaggggggca gacccctttgc caggctggat tgtacgggcc ccaccttcgc 240

tgtgttcttg ctgcaaagtc tggtcaataa atcactgcac tg 282

<210> 529
<211> 131
<212> DNA
<213> Homo sapiens

<400> 529
atacctgtta aatagatcaa ttttgattgc ctactatgtg aactcactgt taaaggcact 60

gaaaatttat catatttcat ttagccacag ccaaaaataa cgcaatacct atgttagcat 120

tttgtgaact c 131

<210> 530
<211> 183
<212> DNA
<213> Homo sapiens

<400> 530
tcacctgagg cgttcaaaag atataaccaa ataaacaagt catccacaat caaaatacaa 60

cattcaatac ttccaggtgt gtcagacttg ggatgggacg ctgatataat agggtagaaa 120

gaagtaacac gaagaagtgg tggaaatgta aaatccaagt catatggcag tgatcaatta 180

tta 183

<210> 531
<211> 263
<212> DNA
<213> Homo sapiens

<400> 531
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tgatccgccc acctcggcct cccaaagtgc tgggattaca ggtgtgagcc accgtgcccg 120

gcctcttttt atttattcct aaaatattac cttgaggcca aattctgcgc ttaaggagaa 180

tgtgcaccaa gtgctggggt gggggctggt tataaacgag gccacaaatc atgcttgtta 240

ataaattgtg tggttcaaat ctg 263

<210> 532
<211> 140
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (71)..(71)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (82)..(82)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (94)..(94)
<223> n is a, c, g, or t

<400> 532
cacagccaaa acctctacat ccctacattc acacacttcc tccacacacc atcctgaagt 60

caccccaact nctaccacca anatcaccac caancccacc agtataggaa gcagcacacc 120

catggcccac actacctcag 140

<210> 533
<211> 134
<212> DNA
<213> Homo sapiens

<400> 533
cagaggagct ttattagagg gacagggtga aacatattta caccggccga gcagggacct 60

taagaagcag gcgtgggagc agggtcccag ctcagacgag ttccaccttg gcattggggt 120

acaccgccac cacg 134

<210> 534
<211> 207
<212> DNA
<213> Homo sapiens

<400> 534
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gcacgggtgt cagcatgtgt atataagtgt gggcatgtgt atgtgattgt gtgagtgtgg 120

gcaggtgagt gtgttgggga tgtgggttag ggtggggagt ggtgctttct ctagtgtgtc 180

ctccggaaca tcttgcctac ctagcaa 207

<210> 535
<211> 113
<212> DNA
<213> Homo sapiens

<400> 535
gaaaactgtt agatgcacac tgttgatttt catggtggat tcaagaactc cctagtgagg 60

agctgaactt gctcaatcta aggctgattg tcgtgttcct ctttaaattg ttt 113

<210> 536
<211> 66
<212> DNA
<213> Homo sapiens

<400> 536
gtttttatta aaacacaaac gcacacacac acaaaattag ccaggcatgg tggtccatcc 60

ctgtaa 66

<210> 537
<211> 66
<212> DNA
<213> Homo sapiens

<400> 537
gtcaccccag agtcattgtc acctcagagt cattgtcact ccagagtcat tgtcacctca 60

gagtca 66

<210> 538
<211> 128
<212> DNA
<213> Homo sapiens

<400> 538
caggctgggc cgtgagcagg tgggccgttg agttacctct gtgctggatc ccgtgccccc 60

acttgcctac cctctgtcct gccttgttat tgtaagtgcc ttcaatactt tgcattttgg 120

gataataa 128

<210> 539
<211> 49
<212> DNA
<213> Homo sapiens

<400> 539
tgattactag tgtaaactgg ttattgagat agattatgac attggtgga 49

<210> 540
<211> 209
<212> DNA

<213> Homo sapiens

<400> 540
cagagtcatt cattgtcacc ccagagtcat tgtcacccga gtcattgtca gctcagagtc 60

attgtcaccc cagagtcatt gtcaccccag agtcattgtc accccattgt caccccagag 120

tcattgtcac ctcagagtca ttgtcactcc agagtcattg tcacctcaga gtcaatgtca 180

ccccagagtc atcgtcaccc cagagacat 209

<210> 541
<211> 237
<212> DNA
<213> Homo sapiens

<400> 541
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atataccatt ttgggtcctg aggataagag agatgagggc attagatcac tgacagctga 120

agatagaaga acatctttgg tttgattgtt taaataatat ttcaatgcct attctttgca 180

aggtactatg tttcgtaaat taaataggtc tggcccagaa gacccactca attgcct 237

<210> 542
<211> 62
<212> DNA
<213> Homo sapiens

<400> 542
tatgtaatta taagatgaag cgtagtgaat tgtacagctg ttgtaataat gacctatttc 60

ta 62

<210> 543
<211> 277
<212> DNA
<213> Homo sapiens

<400> 543
taccccctttt tatatctaat gtagaaaaag cgaaattgaa tctggaaagc aaactgttgt 60

atatagttgc ggtaacaatc atgaagagag agccgggctg tcccctcagt aattcatttt 120

aaataacaaa ttatttaaaa ataaaattca tgccagagcc agctgaagag gccttccttc 180

atcaccactg aggccacccc caatctgggc cctctgtcca tctggcatgt ctcctcccag 240

caagattcat ctgttcaatg ccatttgcgt ttcaata 277

<210> 544
<211> 203
<212> DNA
<213> Homo sapiens

<400> 544
ttttcccaac tctatagcta gatttaaaag tcccagtaaa attttgtaaa caaaatcata 60

taagaaaagg caaggctggc tcttccctat ggtcctttag tggagctata tttgcataga 120

tcctagacaa atgatgcaaa acaaattccc tccaatttcc actagcaatc tccctaattc 180

gctcaaccct tacataagca tca 203

<210> 545
<211> 75
<212> DNA
<213> Homo sapiens

<400> 545
agaacctgag tataaattta ctttctcaaa ttcttgccat gagaggttga tgagttaatt 60

aaaggagaag attcc 75

<210> 546
<211> 248
<212> DNA
<213> Homo sapiens

<400> 546
aaaaactcaa cctatctggt gttttatttt aatggataaa aatgtaattt ttttaaggta 60

gcaacttatt tccaaattaa tatagatgaa aaatagatac caattagact aaattgaaag 120

ctttttgttc tatatttgca tagcctttga aatatttctt agtgcctagg aggtctgggg 180

attcctcttt cgtggtggtc actaacctta cttgatgcag ataaaatcac ttgtcaatgc 240

aaaatgtg 248

<210> 547
<211> 174
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (27)..(27)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (78)..(78)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (123)..(123)
<223> n is a, c, g, or t

<400> 547
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agtggagtcg ggggcttngt gctgggcctg ctcttncttg gggccgggct gttcatctac 120

ttnaggaatc agaaaggaca ctctggactt cagccaacag gattcctgaa ctga 174

<210> 548
<211> 251
<212> DNA
<213> Homo sapiens

<400> 548
agagagtgga catttgtcgg gaaactccta acatatgccc ccattctgga gagaacacag 60

agtacgacac aatccctcac actaatagaa caatcctaaa ggaagatcca gcaaatacgg 120

tttactccac tgtggaaata ccgaaaaaga tggaaaatcc ccactcactg ctcacgatgc 180

cagacacacc aaggctattt gcctatgaga atgttatcta gacagcagtg cactgccccc 240

aagtctctgc t 251

<210> 549
<211> 88
<212> DNA
<213> Homo sapiens

<400> 549
gccctcatgg ttggcatcac atatgcctgc atgccattaa caccagctgg ccctaccccc 60

ataatgatcc tgtgtcctaa attaatat 88

<210> 550
<211> 284
<212> DNA
<213> Homo sapiens

<400> 550
aactgaaatg tcaacctgtg gactgtggca ttcctgaatc cattgagaat ggtaaagttg 60

aagacccaga gagcactttg tttggttctg tcatccgcta cacttgtgag gagccatatt 120

actacatgga aaatggagga ggtggggagt atcactgtgc tggtaacggg agctgggtga 180

atgaggtgct gggcccggag ctgccgaaat gtgttccagt ctgtggagtc cccagagaac 240

cctttgaaga aaaacagagg ataattggag gatccgatgc agat 284

<210> 551
<211> 214
<212> DNA
<213> Homo sapiens

<400> 551
gacttattcc cgctgactga gtttttgagg ggctaccagg aaagcgcctc caaccctagc 60

aaaagtgcaa gatggggagt gagaggctgg gaatggaggg gcagagccag gaagatcccc 120

cagaaaagaa agctacagaa gaaactgggg ctcctccagg gtggcagcaa caataaatag 180

acacgcacgg cagccacagc ttgggtgtgt gttc 214

<210> 552
<211> 72
<212> DNA
<213> Homo sapiens

<400> 552
gaatggcagt accagaaggc attggttaag tgtcccagga accacacaag cagtgactcc 60

taaagaagtt ca 72

<210> 553

<211> 180
<212> DNA
<213> Homo sapiens

<400> 553
gcttccttaa aggtcagaac atcaggccaa agtacaacgt ttaatttcag aacttgcctt 60

ccaatttacg cattttcaat ttgctctccc catttgttga gtcagaagaa gcagcattgc 120

ccagaaacag gtattacgta acatgcacat actttaaaaa gtactcatcc cttgttttct 180

<210> 554
<211> 173
<212> DNA
<213> Homo sapiens

<400> 554
gctgagtatg ttaagctctt tatgactgtt tttgtagtgg tatagagtac tgcagaatac 60

agtaagctgc tttattgtag catttcttga tgttgcttag tcacttattt cataaacaac 120

ttaatgtttt gaataatttc ttactaaaca ttttgttatt gggcaagtga ttg 173

<210> 555
<211> 243
<212> DNA
<213> Homo sapiens

<400> 555
aaaacttggc acttttttcgt gtggatcttg ccacatttct gatcagaggt gtacactaac 60

atttcccccg agctcttggc ctttgcattt atttatacag tgccttgctc ggcgcccacc 120

acccccctcaa gccccagcag ccctcaacag gcccagggag ggaagtgtga gcgccttggt 180

atgacttaaa attggaaatg tcatctaacc attaagtcat gtgtgaacac ataaggacgt 240

gtg 243

<210> 556
<211> 201
<212> DNA
<213> Homo sapiens

<400> 556
ccctgctgcc tctgatcgta ggaattgagg agtgtcccgc cttgtggctg agaactggac 60

agtggcaggg gctggagatg ggtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgcgcg 120

cgcgccagtg caagaccgag attgagggaa agcatgtctg ctgggtgtga ccatgtttcc 180

tctcaataaa gttcccctgt g 201

<210> 557
<211> 174
<212> DNA
<213> Homo sapiens

<400> 557
tgggcgtccg ggcccccaat attcacgcac tcgcaccacg cactcatatt ccctcacccc 60

accatcacgg ccccaaagaa ggtcttccct ctcgcgaagt ccaccatatc ggggtgactg 120

atgttggacg tacaccctct cgcccctccg gagctgcacc aggccgccga accc 174

<210> 558
<211> 259
<212> DNA
<213> Homo sapiens

<400> 558
ctacaacagg caggtactgc tgccaggggg ctttgaacta gtgcctgcta cccaggacac 60

ccgggccatg cccctggctg ggcagcctgg cacaagtgaa gaagaaggca gtgggaaaac 120

tgggtttatt tcaaggcagc agcctgagcc caggagcaga ggacccagtt gttataaggc 180

gctgggagag gatgggcagc tcccactgcc ccagagcgga gctcgaagca cccaggttgc 240

ccacggaaaa tccaataaa 259

<210> 559
<211> 60
<212> DNA
<213> Homo sapiens

<400> 559
tttctggggt ctttgagctc caaaaaataa acacttcctt tgagggagag ccccccccca 60

<210> 560
<211> 159
<212> DNA
<213> Homo sapiens

<400> 560
gagcttcctt cttcgttctt ggcaccatct tatgaaaagg gtccagatta agatttttga 60

ctgagtcatt ctaaagtaag ttgcaagacc catgatacta gaccactaaa tacttcatca 120

cacacctcct aagaataaga accaacatta tcacaccaa 159

<210> 561
<211> 278
<212> DNA
<213> Homo sapiens

<400> 561
ggaagccatt atcctaaatg aactcactca gaaacagaaa accaaatacc acatgttctc 60

acttataagt agaagctaaa cattgagtac acatggatac aaagaaggga accgcagaca 120

ctggggccta cctgaggtcg gagcatggaa ggagggtgag gatcaaaaaa ctacctatct 180

ggtactatgc tttttatctg gatgatgaaa taatctgtac aacaaaccct ggtgacatgc 240

aatttaccta tatagcaagc ctacacatgt gcccctga 278

<210> 562
<211> 241
<212> DNA
<213> Homo sapiens

<400> 562
ttcccatctc gtccatgagc ctaggtcttg gagccttgtg ttggaggctg ctgtgatgtc 60

aggaacgggg atctttctag cttttggcca cttcctggga cctcacgccc ctgttgacag 120

atggagattg ggcagcaggg ccttgctgca ttgttatctg ctgttccgac ttggtttgtc 180

ttgtccaagg gtgacgaaag agccaggcac cagggtctca tgggatgagg tccaactttt 240

t 241

<210> 563
<211> 283
<212> DNA
<213> Homo sapiens

<400> 563
gtgagaggta acactctaaa tagcccattt catgctcaag acatccaagt caaagaaacc 60

caatagcaca ggtgagtccc ctctgttccc ccccaacacc ccactcacat cagggccccc 120

gccctggagt gtcaccttta ttagctgtga gagacacccc agagccctgg gcactgtcag 180

tgattggggt agaacaaaaa caggacctgg tcagagccca cagatgtggc tagaggaact 240

gtggggtggt gagctccctc ataggctcct gaccacaata tcc 283

<210> 564
<211> 186
<212> DNA
<213> Homo sapiens

<400> 564
gagacttgta tgaaagatgg ctgtgcctct gcctgtctcc cccaccgggc tgggagctct 60

gcagagcagg aaacatgact cgtatatgtc tcaggtccct gcagggccaa gcacctagcc 120

tcgctcttgg caggtactca gcgaatgaat gctgtatatg ttgggtgcaa agttccctac 180

ttcctg 186

<210> 565
<211> 267
<212> DNA
<213> Homo sapiens

<400> 565
gcatttcaaa gtgacttcta tgaagctttt tttttaatgt gaaattttca gaatgttgtt 60

tttttcatgt agatactcca ggaagagtta agcactgctt tcagttttaa tatccacctt 120

gaggggtcgc tgcttgaggg ctcttatccc aggggacttt ttaattcgga tgttacttaa 180

tgtggcttct ctaatgtagt ttctttgatt accgactaca caattatgta ccatcacagt 240

attagtggaa aagtaccatg tgattta 267

<210> 566
<211> 45
<212> DNA
<213> Homo sapiens

<400> 566
tgcttataca cttacacttt atgcacaaaa tgtagggtta taata 45

<210> 567
<211> 241
<212> DNA

<213> Homo sapiens

<400> 567
aactggaccc tgtcgttctc catcttctca gtcagttgtt tcaagtgttc ctgataactc 60

ctctccttct gttccatcat ctgctcattc tttctttgca tttcctgcaa cattttgct 120

gaagcctgtg cagactcagc tttcacaagt tccacttcaa tctccttttc tttttctgtg 180

agagtctggt ctgtctggag aattgcatca gtcatagact ccttggattt caagtatgtc 240

t 241

<210> 568
<211> 159
<212> DNA
<213> Homo sapiens

<400> 568
gagcttcctt cttcgttctt ggcaccatct tatgaaaagg gtccagatta agatttttga 60

ctgagtcatt ctaaagtaag ttgcaagacc catgatacta gaccactaaa tacttcatca 120

cacacctcct aagaataaga accaacatta tcacaccaa 159

<210> 569
<211> 107
<212> DNA
<213> Homo sapiens

<400> 569
tactcccgag gctctgtaca ttgctgccac atactcctgc cagcttgggg gagtgttcct 60

tcaccctcac agtatttatt atcctgcacc acctcactgt tccccat 107

<210> 570
<211> 273
<212> DNA
<213> Homo sapiens

<400> 570
tagaagatga cctcgttccg gagctgggta tttcaaattt gctttcatcc agccactgcc 60

caaagccatt ttcctgccta ctggatgctt acagtgactg tggatacggg ggttcccttt 120

ccccattcag tgacatgtcc tctttgcttg gtgtaaacca ttcttgggag gacacttttg 180

ccaatgaact ctttccccag ctgattagtg tctaaggaat gatccaatac tgttgccctt 240

ttccttgact attacactgc ctggaggata gca 273

<210> 571
<211> 228
<212> DNA
<213> Homo sapiens

<400> 571
atgtaggaga acgtgcccta ttcacacttt gggaagacgc taatttgtga catttttttt 60

tcaagcctgc catcaaggac atttttaag acccaactgg catgagttgg ggtaatttcc 120

tattattttc attttggaca actttttaa cttatattct ttatagagga ttccccaaaa 180

tgtgctcctc atttttggcc tctcatgttc caaacctcat tgaataaa 228

<210> 572
<211> 286
<212> DNA
<213> Homo sapiens

<400> 572
gctgtgttgg ccctcacttg ggattctcag cagttacatg aaagttgtgc tgataatctc 60

ttctcttgta ccaattttag tcaggcagaa aatggtaaac atgagggtgc tcttgtgact 120

taatttttgt tcaagggact aaattgctta tgtttattcc ctgtcagcgg agtggagaat 180

gtcattcatc aataaaccaa agccaatagc tggagaattg agatctggtt gaaagtggtt 240

tatggtttac atgctgtact atcctgagga attgcgagat attgct 286

<210> 573
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (214)..(214)
<223> n is a, c, g, or t

<400> 573
ccctgcgcct atcaggtcgt gagtccaggg gtctacaagt cccgggcccc ccagttcacg 60

attctggcgc ggacttcgct cccccaagac aacactcgga agccagggcc cgcggcctac 120

aacgtggatc agcaccggaa gccccgcggc tggagtttcg ggatccggca ctcggactac 180

ctggccccgc tggtgaccga cgcggacaac tgancegcca ggcgggagcg gccccacacg 240

tgtttgctta aagtctgcga gtccgc 266

<210> 574
<211> 270
<212> DNA
<213> Homo sapiens

<400> 574
ccagggctga gagacacgtg aaggaagatg atgggaggaa aagcccagga gaagtcccac 60

cagggaccag cccagcctgc atacttgcca cttggccacc aggactcctt gttctgctct 120

ggcaagagac tactctgcct gaacactgct tctcctggac cctggaagca gggactggtt 180

gagggagtgg ggaggtggta agaacacctg acaacttctg aatattggac attttaaaca 240

cttacaaata aatccaagac tgtcatattt 270

<210> 575
<211> 227
<212> DNA
<213> Homo sapiens

<400> 575
gaagatgaag ccccatgctc agtcccctcc catcccccac gcagctccac cccagtccca 60

agccaccagc tgtttgctcc tggtgggagg tggcctcctc agcccctcct ttctgacctt 120

taacctcact ctcaccttgc accgtgcacc aacccttcac ccctcctgga aagcaggcct 180

gatggcttcc cactggcctc caccacctga ccagagtgtt ctcttca 227

<210> 576
<211> 279
<212> DNA
<213> Homo sapiens

<400> 576
gcatttgctg tgtttcgtta gcatctggct ccaggacaga ccttcaactt ccaaattgga 60

tactgctgcc aagaagttgc tctgaagtca gtttctatca ttttgctctt tgattcaaag 120

cactgtttct ctcactgggc ctccaaccat gttccctttt ttttagcacc acaaataatc 180

aaaacccaac atgactgttt gttttccttt aaaaatatgc accaaatcat ctctcatcac 240

ttttctttga gggttttagt agacagtagg agttaataa 279

<210> 577
<211> 123
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (52)..(52)
<223> n is a, c, g, or t

<400> 577
gcggactcgc agactttaag caaacacgtg tggggccgct cccgcctggg tngcagttgt 60

ccgcgtcggt caccagcggg gccaggtagt ccgagtgccg gatcccgaaa ctccagccgc 120

ggg 123

<210> 578
<211> 82
<212> DNA
<213> Homo sapiens

<400> 578
gtgctcagta gtcagactgg atagtccgtt tttgcttatc cgttagccgt ggggatttag 60

caggaagctg tgagagcagt tt 82

<210> 579
<211> 151
<212> DNA
<213> Homo sapiens

<400> 579
acacagaaga gtgacatgtt tacaaacctc aagccagcct tgctcctggc tggggcctgt 60

tgaagatgct tgtattttac ttttccattg taattgctat cgccatcaca gctgaacttg 120

ttgagatccc cgtgttactg cctatcagca t 151

<210> 580
<211> 82

<212> DNA
<213> Homo sapiens

<400> 580
tttaaaatac tcagaggaca ggatcactgt ggaatcgaat cagaagtggt ggctggaatt 60

ccacgcaccg atcagtactg gg 82

<210> 581
<211> 109
<212> DNA
<213> Homo sapiens

<400> 581
aagagaagac tcacagtatc aggtctactg aaggagatac ggtgattcct gttcttggct 60

ttgtagattc atctggtata aacagcactc ctgagttatg acctttga 109

<210> 582
<211> 118
<212> DNA
<213> Homo sapiens

<400> 582
tttgaagatt agaaatttag ccgtaggtaa agaatacaaa ggaaaaataa ttttaaaatc 60

atcaaccaga tcaacaaaat atatgttaat gccgagactt tgaattagag tgcgaatt 118

<210> 583
<211> 242
<212> DNA
<213> Homo sapiens

<400> 583
catcttctag cagatctttt tcagttaaga ttacttgttc ttccatgtat tcatatttag 60

ccagctcctt gatcagccgc agtatgtcac tgcagtcggc ggcagtggct gggcggatca 120

cgaatttagc cattttcgtc ttttgctttt cttccctttg cggaccaggc ccctgtactt 180

gaacagtagg aggaggtggt tcctcattcg tctcccggga gcgtcctctt ctcagtcagg 240

ct 242

<210> 584
<211> 34
<212> DNA
<213> Homo sapiens

<400> 584
gaaatcattg tgggattgct agctttccct ctta 34

<210> 585
<211> 272
<212> DNA
<213> Homo sapiens

<400> 585
caacctctta caacccaggc attcctttct atcgataatt actctttcaa ccaattgcca 60

atcagaaaat tgttatatct acctataatc tagaagcccc cacatcaagt tgttttgcct 120

ttctggacag gaccaatgta tatcttaaat gtatttgatt gatctctcat gtctccctaa 180

aatgtataaa accacgctgt tccccgacca cctggagcac atgttctcag ggtctcctga 240

gggctgtgtc acaggccatg ttcacttaca tt 272

<210> 586
<211> 189
<212> DNA
<213> Homo sapiens

<400> 586
ccctgcagag aatcacgtcc tggaactgca tgttcttgcg actcttggga cttcatttta 60

acttctcgct gccccagcca tgttttcaac catggcatcc ctcccccaat tagttccctg 120

tcatcctcgt caaccttctc tgtaagtgcc tggtaagctt gcccttgctt aagaactcaa 180

aacatagct 189

<210> 587
<211> 163
<212> DNA
<213> Homo sapiens

<400> 587
tgagcagact gcaccccaag ctcccgactc caggtcccct gatcttgggg cctgtttccc 60

atgggattca agagggacag ccccagcttt gtgtgtgttt aagcttagga atcgccttta 120

tggaaagggc tatgtgggag agtcagctat cttgtctggt ttt 163

<210> 588
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (75)..(75)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (262)..(262)
<223> n is a, c, g, or t

<400> 588
atgggtgtag atcaaggcag gagcaggaac caaaaagaaa ggcataaaca taagaaaaaa 60

aatggaaggg gtggnaaaca gagtacaata acatgagtaa tttgatgggg gctattatga 120

actgagaaat gaactttgaa aagtatcttg gggccaaatc atgtagactc ttgagtgatg 180

tgttaaggaa tgctatgagt gctgagaggg catcagaagt ccttgagagc ctccagagaa 240

aggctcttaa aaatgcagcg cnatctccag tgacagaaga tactgctaga aatctg 296

<210> 589
<211> 246
<212> DNA
<213> Homo sapiens

<400> 589

tgtacagatt caagcaatgg atgcaaggaa catgctgtat gtaatagaag aaagaagtcc 60

acgttttcgg cagaagtagt gagtcagtgt ggaagagagg tgagggtgtg ctttactttt 120

tgataaagag aaagatgttt actcataaac ccttcaaaag gtattaacaa atgtttacca 180

aacctattgc tttattttaa aaacataatt tgtgttttct atttgtaaga tctgacattt 240

cgaggc 246

<210> 590
<211> 121
<212> DNA
<213> Homo sapiens

<400> 590
ggcagcgacc cggaaacagc gtatcactga gaccgagtcg ccttatcagg agctccaggg 60

tcagaggtcg gatgtctaca gcgacctcaa cacacagagg ccgtattaca aatgagcccg 120

a 121

<210> 591
<211> 262
<212> DNA
<213> Homo sapiens

<400> 591
tggtgaccag ttctcggttt catagttttt actatcagtt tgcctttggg attctttgaa 60

agctcttgag gctttttccg cagcttctag gagatgtgtt aggtcattaa cagtaatgct 120

cctacagttt ttgttcccat ccaaccacca tttgatttca cttttgtaga cttgacctag 180

tgtatctgaa atataggaat ttttaggtgc tttcattttg gcctgacgtg cccagtccag 240

agctgtgtta aagtccttct ct 262

<210> 592
<211> 226
<212> DNA
<213> Homo sapiens

<400> 592
gtcattcaca actgatttca agagtcacct tcaccaggaa gtcttccttg accaccatca 60

ttcctgcctg attagagggc ttcctcatgg taatatgtgt tctcaagttt tcagtgtcaa 120

ggaatgccat cccagaagct cattttcaga tgcacaacag ccagaacagt ctcaagcagc 180

attctagagc ttggaattta agaactacgc attgcctata aagtga 226

<210> 593
<211> 272
<212> DNA
<213> Homo sapiens

<400> 593
agagctcttg agtgggctag tgactccccc tgcagcctgg tggagatggt gtgaggagcg 60

aagagccctc tgctctagga tttgggttga aaaacagaga gagaagtggg gagttgccac 120

aggagctaac acgctgggag gcagttgggg gcgggtgaac tttgtgtagc cgaggccgca 180

ccctccctca ttccaggctc attcattttc atgctccatt gccagactct tgctgggagc 240

ccgtccagaa tgtcctccca ataaaactcc at 272

<210> 594
<211> 151
<212> DNA
<213> Homo sapiens

<400> 594
tagggattaa cttcctgtat gctgcaactc atgaacttgg ccattctttg ggtatgggac 60

attcctctga tcctaatgca gtgatgtatc caacctatgg aaatggagat ccccaaaatt 120

ttaaactttc ccaggatgat attaaaggca t 151

<210> 595
<211> 243
<212> DNA
<213> Homo sapiens

<400> 595
tcccctgctt gaacactgaa gggcaggtgg tgggccatgg ccatggtccc cagctgagga 60

gcaggtgtcc ctgagaaccc aaacttccca gagagtatgt gagaaccaac caatgaaaac 120

agtcccatcg ctcttacccg gtaagtaaac agtcagaaaa ttagcatgaa agcagtttag 180

cattgggagg aagctcagat ctctagagct gtcttgtcgc cgcccaggat tgacctgtgt 240

gta 243

<210> 596
<211> 82
<212> DNA
<213> Homo sapiens

<400> 596
cagatgttgg tatctgcagg gatcctggaa ccaaacccct gcagatacta agggctgacg 60

atctaggtaa gactggattt aa 82

<210> 597
<211> 236
<212> DNA
<213> Homo sapiens

<400> 597
actctcaggc tgcgtccagc gacagtgccc agggctctga tgtgtctctc acagcttgaa 60

aagcctgaga cagctgtctt gtgagggact gagatgcagg atttcttcac gcctcccctt 120

tgtgacttca agagcctctg gcatctcttt ctgcaaaggc acctgaatgt gtctgcgtcc 180

ctgttagcat aatgtgagga ggtggagaga cagcccaccc ttgtgtccac tgtgac 236

<210> 598
<211> 119
<212> DNA
<213> Homo sapiens

<400> 598
gccagagaga ccaagtgtta tgtaagaagt agtgtcggct gtgtagaacc actgactaca 60

caggccgaag ttactgagaa cttggacaga aaaaatagcc agcaagtgtt caaactact 119

<210> 599
<211> 264
<212> DNA
<213> Homo sapiens

<400> 599
gccaacagca tcttttccgg gttcctgctc tttccagata tggaggcctg acctgtgggc 60

tgcttcacat ccaccccggc tccccctgcc agcaacgctc actctacccc caacaccacc 120

ccttgcccag ccaatgcaca cagtagggct tggtgaatgc tgctgagtga atgagtaaat 180

aaacttttca aggccaaggg acagtggttt aattcaactc tgtgtcccag cacctggcac 240

accagaagtg ccatgctcag aaat 264

<210> 600
<211> 273
<212> DNA
<213> Homo sapiens

<400> 600
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gatcctatgg tttctccatc caattctttg aatttcccag tctcccctat gtaaaactta 120

gcaacttggg ggacctcatt cctgggacta tgctgtaacc aaattattgt ccaaggctat 180

atttttggga tgaatataat ttgaggaagg gagttaaaga ccctcctggg gctctcagtg 240

tgccatagag gacagcaact ggtgattgtt tca 273

<210> 601
<211> 275
<212> DNA
<213> Homo sapiens

<400> 601
acttacatac tagcttccaa ggacaggtgg aggtagggcc agcctggcgg gagtggagaa 60

gcccagtctg tcctatgtaa gggacaaagc caggtttaat ggtactgggt agggggcact 120

gccaagacaa taagctaggc tactgggtcc agctactact ttggtgggat tcaggtgagt 180

ctccatgcac ttcacatgtt acccagtgtt cttgttactt ccaaggagaa ccaagaatgg 240

ctctgtcaca ctcgaagcca ggtttgatca ataaa 275

<210> 602
<211> 261
<212> DNA
<213> Homo sapiens

<400> 602
tcactcccac ctgttactgc tgggagtcaa gtcagctagg aaggaagcag gacatttttt 60

caaacagcaa gtggggccca tggaactgaa tctttactcc ttggtgcacc gcttttgtcg 120

tgcgttgcct tgctccgttt ttcccaaaaa gcactggctt catcaaggcc accgacgatt 180

tcctgagtgc actgggaaat ttgggtatag gtcaggcttg gcagccttga tcccaggaga 240

gtactaatgg taacaagtca a 261

<210> 603
<211> 241
<212> DNA
<213> Homo sapiens

<400> 603
ttgttcccga ctagctgcct tgcacattat tttcattttc ctggaatttg atacagagag 60

caatttatag ccaattgata gcttatgctg tttcaatgta aattcgtggt aaataactta 120

ggaactgcct tttctttttc tttgaaaacc tacttataac tgttgctaat aagaatgtgt 180

attgttcagg acaacttgtc tccatacagt tgggttgtaa ccctcatgct tggcccaaat 240

a 241

<210> 604
<211> 107
<212> DNA
<213> Homo sapiens

<400> 604
taaatataat atcgacacag tgctttccgt ggcactgcat acaatctgag gcctcctctc 60

tcagttttta tatagatggc gagaacctaa gtttcagttg attttac 107

<210> 605
<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (180)..(182)
<223> n is a, c, g, or t

<400> 605
gtggagcagt tggactgctc tctctgctct caggatgata ctgtgagaac aatttaaata 60

tgctaagcac atgtcaggaa acagttttgt ggtctttgga cactcgctgt agccattccg 120

ttccatttca ggtgatttta ttcatttcat ttgtagaata aaataaatcc atttcacacn 180

nncacacaca cacacacaca cacacacaca caccctctat acaccactaa agcctcccat 240

taaacccata ga 252

<210> 606
<211> 96
<212> DNA
<213> Homo sapiens

<400> 606
tcgacacagt gctttccgtg gcactgcata caatctgagg cctcctctct cagtttttat 60

atagatggcg agaacctaag tttcagttga ttttac 96

<210> 607
<211> 181

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (43)..(44)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (78)..(79)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (99)..(99)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, or t

<400> 607
gccagagaag cgattagaaa cccctgaggg ccgattactg acnncataaa tcatgagttt 60

gggggctttg cctgggtnnt gttggtacca ggagacatng ttataaccan caacgtcact 120

gctggttcca gtgcaggaga tggtgatcga ctgtccagga gacccagaca cggaggcagg 180

c 181

<210> 608
<211> 115
<212> DNA
<213> Homo sapiens

<400> 608
aggagctgag gtgctacccg gagccccatt caccccccacc tgcccacttg ggaatctgag 60

gcagaggagg gtgaggcctg tgtgccaacc ttgttcacat accaccttcg tcccc 115

<210> 609
<211> 53
<212> DNA
<213> Homo sapiens

<400> 609
aagcaagata tcaatgtagc agaattgcac ttgtgcctca cgaacataca taa 53

<210> 610
<211> 155
<212> DNA
<213> Homo sapiens

<400> 610
gttgttgatc atggatcata ctccccttgt ttctttgggt gagaagggat cgcagtttgg 60

aaactccggc ggctgcgtgc ggggtttcag tcccagctgt aggcttgtaa atacccgccc 120

cgccaaaccg catagagaac gtggcagcaa gctga 155

<210> 611

<211> 190
<212> DNA
<213> Homo sapiens

<400> 611
cacagggaaa tcagggttac aaatcttctt gatccacttc tctcaggatc ccctctcttc 60

ctacccttcc tcaccacttc cctcagtccc aactccttttt ccctatttcc ttctcctcct 120

gtctttaaag cctgcctctt ccaggaagac ccccctattg ctgctggggc tccccatttg 180

cttactttgc 190

<210> 612
<211> 63
<212> DNA
<213> Homo sapiens

<400> 612
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att 63

<210> 613
<211> 281
<212> DNA
<213> Homo sapiens

<400> 613
ggagacagat ggagggtacc ctatttacaa ctgagtcagc caagccactg atgggaatat 60

acagatttag gtgctaaacc atttattttc cacggatgag tcacaatttg aagaatcaaa 120

cttccatcct gaaaatttat atgtttcaaa accacttgcc atcctgttag attgccagtt 180

cctgggacca ggcctcagac tgtgaagtat atatcctcca gcattcagtc caggggagc 240

cacggaaacc atgtttttgc ttaagccatt aaagtcagag a 281

<210> 614
<211> 239
<212> DNA
<213> Homo sapiens

<400> 614
agatgcgctc gagacccacg ggccttccac ctccctcagc ttcctgcatg gacccacctt 60

actggccagt ctgcatcctt gcctagacca ttctcccctc cagggagccc accctgaccc 120

acccccactg cacccctcc ccatgggttc tctccttcct ctgaacttct ttaggagtca 180

ctgcttgtgt ggttcctggg acacttaacc aatgccttct ggtactgcca ttctttttt 239

<210> 615
<211> 196
<212> DNA
<213> Homo sapiens

<400> 615
gcctttaaga taccttgatg aagacctgga ctattgaatg gagcagaaat tcacctctct 60

cactgactat tacagttgca tttttatgga gttcttcttc tcctaggatt cctaagactg 120

ctgctgaatt tataaaaatt aagtttgtga atgtgactac ttagtggtgt atatgagact 180

ttcaagggaa ttaaat 196

<210> 616
<211> 38
<212> DNA
<213> Homo sapiens

<400> 616
agtctgccta tgatctttga atgagctttt taaggaag 38

<210> 617
<211> 110
<212> DNA
<213> Homo sapiens

<400> 617
tttaacttga gggtgtagag gtcctccacg cttgtttgcc tgaaagtaat ataatgatgc 60

tgtctgaaca ggttttactg cttgctttcc aagtaaaggt taattatgat 110

<210> 618
<211> 173
<212> DNA
<213> Homo sapiens

<400> 618
tattttccct ctttcgaaca aagacattgg tttgcccaag gactacaaat aaaccaacgg 60

gaaaaaagaa aggttccagt tttgtctgaa aattctgatt aagcctctgg gccctacagc 120

ctggagaacc tggagaatcc tacacccaca gaacccggct ttgtccccaa aga 173

<210> 619
<211> 82
<212> DNA
<213> Homo sapiens

<400> 619
gttatttaag atggctatcc agataatcct gaacactgtg tatttatttt atttagacta 60

ccagcaaaga ttaaagcatg aa 82

<210> 620
<211> 266
<212> DNA
<213> Homo sapiens

<400> 620
gcttggggaa caatgatggt gcacaaaggc ttagatttgc cttgtctcaa ataaggaat 60

tttgtagtgg ttttcaaaaa taattcaaca aagaaacaat acaaaaagtg ggtagaatta 120

cctatcacat ttcccaatct tgactattca gaatgctgtt tatttagtga tgaggattag 180

cacttgattg aagattcttt taaaatacta tcagttaaac atttaatatg attatgatta 240

atgtattcat tatgctacag aactga 266

<210> 621
<211> 115
<212> DNA

<213> Homo sapiens

<400> 621
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gaacaaggag tcgtcagaaa ctccagacca gtttatgaca gctgatgaga caagg 115

<210> 622
<211> 262
<212> DNA
<213> Homo sapiens

<400> 622
gttcacccgg tgaactattt atgagttctt ttggtgtgaa gaaagggctc atgttgcatt 60

tccagccatt gctacaaaga acctttattt gttcagtaac ggtagaaaat ccttcccgat 120

taaaaacttc agacttgctg aatatcctgc aatgtcaaga tgaccgatgt tgagttgggt 180

ggatttgcta acgagtcaga tttgaacatg aggctattgg aacccaatag gcgtcattga 240

tggcggcaag ccatagcttt ca 262

<210> 623
<211> 94
<212> DNA
<213> Homo sapiens

<400> 623
ggggagccag gcttccctca cgcagcctgt ggtggatgtg ggaaggagat caacttctcc 60

tcactctggg acagacgatg tatggaaact aaaa 94

<210> 624
<211> 114
<212> DNA
<213> Homo sapiens

<400> 624
ctgcacagct cagcacaaca ttccaagctc aaaatagaag ccttctcagt gagctccagc 60

acgcccagag gactgttaat aacgatgatc catgtgtttt actctaaagt gcta 114

<210> 625
<211> 37
<212> DNA
<213> Homo sapiens

<400> 625
cagggactgg ctatcccaag acctggcaga tgtggct 37

<210> 626
<211> 74
<212> DNA
<213> Homo sapiens

<400> 626
gtgaaaggga agtagaaccg aaacaagatt agtcctgagt taacaatggc tgcaagctgg 60

atacatggaa ttca 74

<210> 627

<211> 201
<212> DNA
<213> Homo sapiens

<400> 627
tggtgaatgc gtgctgccca ggaccagtga agacagacat ggatgggaaa gacagcatca 60

ggactgtgga ggaggggct gagacccctg tctacttggc cctcttgcct ccagatgcca 120

ctgagccaca aggccagttg gtccatgaca aagttgtgca aaactggtaa acgtctgctt 180

cggagcttgc tgcttaataa a 201

<210> 628
<211> 217
<212> DNA
<213> Homo sapiens

<400> 628
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ggagcctggg ggtgtcgggg caggaggctg gggatggggg tgggatatga gggtggcatg 120

cagctgaggg cagggccagg gctggtgtcc ctaaggttgt acagactctt gtgaatattt 180

gtattttcca gatggaataa aaaggcccgt gtaatta 217

<210> 629
<211> 33
<212> DNA
<213> Homo sapiens

<400> 629
ttctgtgcct cagccgttct tgacatcaag aat 33

<210> 630
<211> 222
<212> DNA
<213> Homo sapiens

<400> 630
gacacagtcg ggttgaccca gggctgtctc cctccagagc ctccctccgg acaatgagtc 60

ccccctcttg tctcccaccc tgagattggg catggggtgc ggtgtggggg gcatgtgctg 120

cctgttgtta tgggtttttt ttgcgggggg ggttgctttt ttctggggtc tttgagctcc 180

aaaaaataaa cacttccttt gagggagagc acaccttccc aa 222

<210> 631
<211> 278
<212> DNA
<213> Homo sapiens

<400> 631
tgagaggcaa gagttgttcc tgcccttccc tttgtgactt gaagaaccct gactttgttt 60

ctgcaaaggc acctgcatgt gtctgtgttc gtgtaggcat aatgtgagga ggtggggaga 120

gcaccccacc cccatgtcca ccatgaccct cttcccacgc tgacctgtgc tccctctcca 180

atcatctttc ctgttccaga gaggtggggc tgaggtgtct ccatctctgt ctcaacttca 240

tggtgcactg agctgtaact tcttccttcc ctattaaa 278

<210> 632
<211> 90
<212> DNA
<213> Homo sapiens

<400> 632
aaattaaagc taaagtatct gtattgcatt aaatataata tcgacacagt gctttccgtg 60

gcactgcata caatctgagg cctcctctct 90

<210> 633
<211> 198
<212> DNA
<213> Homo sapiens

<400> 633
accgcaggat cctttgctct gcacgagtta cctgttaaac tttggaacac ctaccaaaaa 60

ataagtttga taacatttaa aagatgggcg tttcccccaa tgaaatacac aagtaaacat 120

tccaacattg tctttaggag tgatttgcac cttgcaaaaa tggtcctgga gttggtagat 180

tgctgttgat cttttatc 198

<210> 634
<211> 243
<212> DNA
<213> Homo sapiens

<400> 634
ttcatgctgg acctcaggta caaaaggtta agaacttctc agttcattat atgatcatca 60

ttggtgcctc cgagctctct ctctctccct tgatttattt ggtccctttt atctccagtc 120

cttactccca tatctaacct cttaccccta cctcataggt aaacatttta atgaatttga 180

tgtttccttt tatttgcata gatcctctgt aatatgtagt agtgtccagt gtacatgtat 240

ttt 243

<210> 635
<211> 211
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (140)..(140)
<223> n is a, c, g, or t

<400> 635
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atggtgagag tgaagtctgt cccagaccca ctgccactga acctgtctgg gatgccagtg 120

gccctgctgg atgcaccatn gatgaggagc ctgggagcct ggccaggttt ctgctggtac 180

caggctaagt agctgctgct aacactctga c 211

<210> 636
<211> 256

<212> DNA
<213> Homo sapiens

<400> 636
agagagtgga catttgtcgg gaaactccta acatatgccc ccattctgga gagaacacag 60

agtacgacac aatccctcac actaatagaa caatcctaaa ggaagatcca gcaaatacgg 120

tttactccac tgtggaaata ccgaaaaaga tggaaaatcc ccactcactg ctcacgatgc 180

cagacacacc aaggctattt gcctatgaga atgttatcta gacagcagtg cactgcccct 240

aagtctctgc tcaaaa 256

<210> 637
<211> 239
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (138)..(138)
<223> n is a, c, g, or t

<400> 637
gaagggtaaa tgaagctatc gtagcttcac ttgggaaaag ggagagaaca gatgaccagc 60

accaaggata gaagagggat ttcttacttt aaaaaaaatg gtccaaagaa taaacaaact 120

gaaaacagcc aaaagagnaa ggaagaattt gttagaatag ggcaagacta aaggacagag 180

taagggtgct ggccgccacc tgactcaagt tcaagtcgag ctgccactgt tgaaatttc 239

<210> 638
<211> 204
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (63)..(63)
<223> n is a, c, g, or t

<400> 638
attttatgac atttcgaagt ttctgtgtct taactctttt taattaattt tctgcacgtt 60

gcnttttttc tctttgtttt taattccata cagagtattc aattcttgaa acacattaaa 120

ataatttgct tgctagggta tggtttattt tataattaca ttcctagtct tgtgtggtta 180

ttgtaatgat gtctggtcct aatt 204

<210> 639
<211> 231
<212> DNA
<213> Homo sapiens

<400> 639
tgtctcccgg cctgatacca gatacaggtt gttgatttca tcgtgggtag caagctagta 60

ataaatttca aagtgctttc tcttttcatg ctttttgcca ataactgtta ccgccgttct 120

tattctctcc cttaactcat tgtctttggg ggagttagac accaggaggt gccttgtcgg 180

tcatattttt cagcacgtca tcaatcctat catcttcaat aacaacccgc t 231

<210> 640
<211> 237
<212> DNA
<213> Homo sapiens

<400> 640
gcatggcatc aaaaggtagg tcaacatatt aaataattcc atgtattgaa atatccagaa 60

aatatataga cagatctata gagatagaaa ctggtctgcc caggactagg ggttgtctaa 120

ggataaggag cttctttttt ggatggtgaa ataacctaaa atatattgtg ccattgtttg 180

cacaactttg tgaatatatt aaaaacctgt taattgtact cactaaatgt cctcctt 237

<210> 641
<211> 228
<212> DNA
<213> Homo sapiens

<400> 641
attgatagtg cttcttacca ggtgaaggga agggctactt tttcctaaag gagaaaaaag 60

ctttcagaca aagctcgtac caacccctga actgcaaatt tgctcaagtg accgtgcata 120

cttatattcc taatttaaat gattatttat gtcaaacgct cattgtgaaa cttgaaaatg 180

ttgtattaca ttacatcaaa taaagtttac ttgtagcaga cagaaaga 228

<210> 642
<211> 188
<212> DNA
<213> Homo sapiens

<400> 642
gaagcagcca acaaaaacgt aattagtaac taggacttcc tcatgggata gaccaaataa 60

ggcaactgta taactgtgta actgtataac tgtaaccaat gaaatattat ctttgctttt 120

atctatttgt cctaaaaagc ctcctcctca tgttctctct ggggagctcc ctagccactt 180

ctggcttg 188

<210> 643
<211> 259
<212> DNA
<213> Homo sapien

<400> 643
gactggacca aagagcatgt gaaaaaatgg gtaaatgaag accttaagat taatgagcaa 60

tacgggcaaa ttctgctcag tgaagaagta acaggattag tcctgcagga attaactgag 120

aaggaccttg tagaaatggg gctaccatgg ggtccagcac ttttgataaa acgttcatac 180

aacaaattga atagtaagtc ccctgaaagt gacaatcatg atccgggaca attagataat 240

tcaaaaccgt ccaaaacag 259

<210> 644
<211> 242

<212> DNA
<213> Homo sapiens

<400> 644
tgttctagag agctcatgta caccatggtg accatagtta ataatactgg attgtatgct 60

taaaatttgc taagagagta gatcttaagt catcaccaaa aaaagtaact gtaagatgat 120

ggagatgtgt taattagctt gacggtggta atcacaatat atgtgtatat caaaacatca 180

cattatacac cttaaatgta tataatattt gtcaattata cctcagtaaa gccaaaaaga 240

aa 242

<210> 645
<211> 205
<212> DNA
<213> Homo sapiens

<400> 645
ataggcagga accaatttgc atttaagtag tatgggaagc ctcgagtatg ttttcttgtc 60

cagagtgaag caaccaagaa agtaagatgc tggagatatc ttagactcaa gagatagaaa 120

gcaagaccct aggggagata agtaggagca ggatttcaag gacggaatta gtattgcaca 180

gagattaggg acacttcttc cttgg 205

<210> 646
<211> 217
<212> DNA
<213> Homo sapiens

<400> 646
aaaggcaaaa cactccagga cctctcccgg atctgtctcc tcctctagcc agcagtatgg 60

acagctggac ccctgaactt cctctcctct tacctgggca gagtgttgtc tctccccaaa 120

tttataaaaa ctaaaatgca ttccattcct ctgaaagcaa aacaaattca taattgagtg 180

atattaaata gagaggtttt cggaagcaga tctgtga 217

<210> 647
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (208)..(208)
<223> n is a, c, g, or t

<400> 647
aaagctgaac tgcaaatctc aacgaaggaa gaggccattt taaagaaact aaagtcaatt 60

gagcggacaa cagaagacat tataagatct gtgaaagtgg aaagagaaga aagagcagaa 120

gagtcaattg aggacatcta tgctaatatc cctgaccttc caaagtccta cataccttct 180

aggttaagga aggagataaa tgaagaanaa gaagatgatg aacaaaatag gaaagcttta 240

tatgccatgg aaa 253

<210> 648
<211> 249
<212> DNA
<213> Homo sapiens

<400> 648
aggaggtaga ccctttagct cccttccaat taaaggagtc cccaattctg gcacctgaga 60

gtcccctggg tctaacagct atgatattta tgtagtgtgt tgcttaccta aatgaataca 120

atttccttcc agacacgtga cactgatatt aaagtgctaa tgagagggat ctatttcttc 180

ttgtacgcta aaagagaaac agcagttcag atttcccatc agaagtccga ggactttgtt 240

cttgataac 249

<210> 649
<211> 185
<212> DNA
<213> Homo sapiens

<400> 649
ttgatattct cttttggttt tattgttgtg gttcattgaa aaaaaaagat aatttttttt 60

tctgatccgg ggagctgtat ccccagtaga aaaaacattt taatcactct aatataactc 120

tggatgaaac acacctttt ttttaataag aaaagagaat taactgcttc agaaatgact 180

aataa 185

<210> 650
<211> 234
<212> DNA
<213> Homo sapiens

<400> 650
atcaacctgg ttgacctgtc atggccgcct gtgccctgcc tccaccccca tcctacactc 60

ccccagggcg tgcggggctg tgcagactgg ggtgccaggc atctcctccc cacccggggt 120

gtccccacat gcagtactgt atacccccca tccctccctc ggtccactga acttcagagc 180

agttcccatt cctgccccgc ccatcttttt gtgtctcgct gtgatagatc aata 234

<210> 651
<211> 270
<212> DNA
<213> Homo sapiens

<400> 651
ggattttgat ccaagctggt ccactcagtc catagcagag aatgaaaggg cccagagagg 60

gtggtgacct ctgcctgaag tcacacagtg agtcgaggac agggaggtga ccccaggttt 120

ctatgtgtag ggcgggagga tgttctggga cacagttcaa ttctcatttg tcacacactt 180

tggctattag agatcaaccc cttcgctcct gtgtcttgca atggcagcct tggcaaacgc 240

taaatgaaaa tcgtgacaac acttgtgtta 270

<210> 652
<211> 37
<212> DNA
<213> Homo sapiens

<400> 652
cccaaattat ccccaattat ccccacacat aaaaaaa 37

<210> 653
<211> 173
<212> DNA
<213> Homo sapiens

<400> 653
gttggtgttt catgacatgt ggacttcttt tgaaatagca agtcaaatgt agtgaccaaa 60

ttgtggaaga gatttctgtc aaataggaaa tgtgtaagtt cgtctaaaag ctgatggtta 120

tgtaagttgc tcagcactca gatgacagca gattctgggt tctgggagtg ttc 173

<210> 654
<211> 236
<212> DNA
<213> Homo sapiens

<400> 654
gaaaccatgg gcaggagtag gaattgagtg ataaacaatt gggctaatga agaaaacttc 60

tcttattgtt cagttcatcc agattataac ttcaatggga cactttagac cattagacaa 120

ttgacactgg gattaaacaa attcacataa tgccaaatac acaatgtatt tatagcaacg 180

tataatttgc aaagatggac tttaaaagga tgctgtgtaa ctaaactgaa ataatt 236

<210> 655
<211> 187
<212> DNA
<213> Homo sapiens

<400> 655
taatccacta aactggtctt cttcaagaga gctaagtata cactatctgg tgaaacttgg 60

attctttcct ataaaagtgg gaccaagcaa tgatgatctt ctgtggtgct taaggaaact 120

tactagagct ccactaacag tctcataagg aggcagccat cataaccatt gaatagcatg 180

caagggt 187

<210> 656
<211> 79
<212> DNA
<213> Homo sapiens

<400> 656
ctcagttctg gtccttcaag cctgtatggt ttggattttc agtaggggac agttgatgtg 60

gagtcaatct ctttggtac 79

<210> 657
<211> 94
<212> DNA
<213> Homo sapiens

<400> 657
taacaaatca tcaacttcca ctggtcaata tatagatttt gggtgtctga ggccccaaga 60

ttagatgcca ctaatctcca aagattccct ccaa 94

<210> 658
<211> 246
<212> DNA
<213> Homo sapiens

<400> 658
gaggcttggc cttctttgtg aggcagtgtg agcagaagct gatgccagca tgtcactggt 60

tttgaaggga tgagcccaga cttgatgttt tgggattgtc cttattttaa cctcaaggtc 120

tcgcatggtg gggcccctga ccaacctaca caagttccct cccacaagtg gacatcagtg 180

tcttctctgt gaggcatctg ggccattcgc actccctggt gtggtcagcc tctctcacac 240

aaggag 246

<210> 659
<211> 270
<212> DNA
<213> Homo sapiens

<400> 659
tttgtgccag gcctatagca gtgttgggag cgaaactcta gcaggatcct tcttacatgc 60

agaaaaggtt cattttacac ttgccaatag gaatgaaact atttcgctgc cacaatagct 120

aactgttttt ctaaatggcc tatttcgtca acaacaatca ggaaagtgta ggaaggtaca 180

atctctaatg attgtagccc gtgcttaagg tgaggaaaaa agtcaaaaaa ttacacatga 240

gaaacctgaa tccaggcaga tcttacccaa 270

<210> 660
<211> 195
<212> DNA
<213> Homo sapiens

<400> 660
aagagtatga tacaacatta gagaaagaaa gatacaaagg ctttattcat gtgtgatagt 60

aaaaatcagg atgagtctta gatatacaaa agataaatgg atatttaaaa tagttatata 120

tgctttttta gcaaaatatt cacgtgttaa gtatttctgg atcttaaaat acaaaatcca 180

cttattttat tagtt 195

<210> 661
<211> 147
<212> DNA
<213> Homo sapiens

<400> 661
gagaggccgc gctctcaggt gaaattaaaa ttggaggtca gttcccggat ccgattctct 60

cggttcattt tcttgagttt cattctgcga ttttgaaacc agattttgac ttgtctgtct 120

gtaaggttaa tggtcctgct tatctcc 147

<210> 662
<211> 106
<212> DNA
<213> Homo sapiens

<400> 662
gaaagatcca gtaagttcag tttctctatg aactaatcat tcaagtcaaa ggcacactga 60

tgcaaaatca gtatatggac cccggtgtct gattagcaag gttttc 106

<210> 663
<211> 268
<212> DNA
<213> Homo sapiens

<400> 663
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ccccaaagac aatgagttaa gggagagaat aagaacggcg gtaacagtta ttggcaaaaa 120

gcatgaaaag agaaagcact ttgaaattta ttactagctt gctacccacg atgaaatcaa 180

caacctgtat ctggtatcag gccgggagac agatgaggcg agaggaggag gaggaggagg 240

agaaggctct gggctcctct gcaaaaaa 268

<210> 664
<211> 405
<212> DNA
<213> Homo sapiens

<400> 664
accagcaaag caatgcactc ctgaccaagt agattctttt aaaaattaga gtgcattact 60

ttgaatcaaa aatttattta tatttcaaga ataaagtact aagattgtgc tcaatacaca 120

gaaaagtttc aaacctacta atccagcgac aatttgaatc brrsatagtc ccgagactgg 180

gttcaagtag agggcagatc tagatggggg aggactagga ctgactccta tggggatgga 240

aaagggactc ctgggtgtct ttgtgactgt ttagtgtgtt ctgtgaatgt gcgggcaggt 300

atttttgccc acatctgtat atttgtctat taatgtgatg tatttgagta ttgttgtggg 360

ggcgggtatg tctgtatata aatctgtgca gccactagtc aacaa 405

<210> 665
<211> 259
<212> DNA
<213> Homo sapiens

<400> 665
gaagaaagct ataccattac cataatacat ttttcatctc atggctacaa tggaattctt 60

gaaaaggaaa aaaaatccta tctacatata aaaacctgca tgaatgaatc actacatatg 120

cttataatga ggaagagtta tgggtcctga gtgtaatttt ttatcctttc ttaaaaagtt 180

tctgtattat gcattttgat aacactactg atgatccttc cacttatatt tgaaatgtta 240

tgtaccacat ttgcacaat 259

<210> 666
<211> 234
<212> DNA
<213> Homo sapiens

<400> 666

ggctactctg aaatgttgca gtgtggaaca atggaaagag cctgggtgtt tgggtcagat 60

aaatgaagat caaactccag ctccagcctc atttgcttga gactttgtgt gtatggggga 120

cttgtatgta tgggagtgag gagtttcagg gccattgcaa acatagctgt gcccttgaag 180

agaatagtaa tgatgggaat ttagaggttt atgactgaat tccctttgac atta 234

<210> 667
<211> 294
<212> DNA
<213> Homo sapiens

<400> 667
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ggttttgtac aattgaactt aaataaatgt cattaaaata aataaatgca atatgtatta 120

atattcattg tataaaaata gaagaataca aacatatttg ttaaatattt acatatgaaa 180

tttaatatag ctatttttat ggaatttttc attgatatga aaaatatgat attgcatatg 240

catagttccc atgttaaatc ccattcataa ctttcattaa agcatttact ttga 294

<210> 668
<211> 265
<212> DNA
<213> Homo sapiens

<400> 668
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ttgctttctt ttctattgag tctgggcttg tttgtgttac tgcatactgt gattagcata 120

ataattgttt ctttgaggtc atctaaatat ttttttccta aaggaataaa gggtgaggaa 180

agaaaaatat taaaaaagct aatatttgat actgtgcttg ctgtcagtat gcattacatt 240

taaattattc tctattcaag tggga 265

<210> 669
<211> 190
<212> DNA
<213> Homo sapiens

<400> 669
ggaagatggt ttctatctca tgacccccac tccctgtgag agggaatggg ggaagcctga 60

tgaccctcag ctgttccaat ctagtatttt ttttcttttt taaaattact gtatttatta 120

tgacgatggt gactccccag tgcaaagggg ggccagattc tgtgtgtttc tctaacctct 180

ttgtaaataa 190

<210> 670
<211> 138
<212> DNA
<213> Homo sapiens

<400> 670
aagaattaca gggatgtttt taatcccact atggactcag tctcctggaa ataggtctgt 60

ccactcctgg tcattggtgg atgttaaacc catattcctt tcaactgctg cctgctaggg 120

aaaactgctc ctcattat 138

<210> 671
<211> 257
<212> DNA
<213> Homo sapiens

<400> 671
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tattagctgt aaatacatgt gtggatgtgt aaatggagct tgtacatatt ggaaaggtca 120

ttgtggctat ctgcatttat aaatgtgtgg tgctaactgt atgtgtcttt atcagtgatg 180

gtctcacaga gccaactcac tcttatgaaa tgggctttaa caaaacaaga aagaaacgta 240

cttaactgtg tgaagaa 257

<210> 672
<211> 231
<212> DNA
<213> Homo sapiens

<400> 672
accatgtaca gagaaatttt aggccaaact taaaatatgt aaggaggcag ctttaggcta 60

aacttgattt aacagcacca ataccccta cctttagtga gcacatctgc acattccaat 120

tttaatgaca gctccttaga atttcttatc aacgaagaca ctaacaaaga atggcgcatt 180

cctccttctc ctttctgagg atgccctacc ctgtaacaaa gtcgtttcta a 231

<210> 673
<211> 132
<212> DNA
<213> Homo sapiens

<400> 673
gtgagcctgc cagcgtttgc gacgtccccg cacgacaggc tcatactttc tgaggatcgt 60

gcatagcata ggacgtctga acctttgtac aaatgtgtag atgacatctt gctacagctt 120

ttatttgtga at 132

<210> 674
<211> 283
<212> DNA
<213> Homo sapiens

<400> 674
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agaaaccaga agctctgata tttaactgcc gtgataatga attcaatgtg caactatggg 120

caaattgtat ttaatagtaa ttgcatattg tacatatttt tcattcttat taacactgat 180

aaacttttca acttatactg actttaataa aattgtatta ctaggctatt aacatgatat 240

tttgtttccc attaaatgtg acatgcaaag acgtttatta aat 283

<210> 675
<211> 229
<212> DNA

<213> Homo sapiens

<400> 675
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aataacatgt aattaagtac tatgtatcaa tgagtaacag gaaaatttta aaaatacaga 120

tagatatatg ctctgcatgt tacataagat aaatgtgctg aatggttttc aaataaaaat 180

gaggtactct cctggaaata ttaagaaaga ctatctaaat gttgaaaga 229

<210> 676
<211> 39
<212> DNA
<213> Homo sapiens

<400> 676
gttgctgacc tgctgtgctc gcagtagatt ccaaaaaaa 39

<210> 677
<211> 259
<212> DNA
<213> Homo sapiens

<400> 677
gacatcccca ctcacgaata ttatgcccag tttctgcctc tgagggaaag cccagaaaag 60

gacagaaacg aagtagaaag gggcccagtc ctggcctggc ttctcctttg gaagtgaggc 120

attgcacggg gagacgtacg tatcagcggc cccttgactc tggggactcc gggtttgaga 180

tggacacact ggtgtggatt aacctgccag ggagacagag ctcacaataa aaatggctca 240

gatgccactt caaagaaaa 259

<210> 678
<211> 236
<212> DNA
<213> Homo sapiens

<400> 678
gacagtccgt caaaacagat tgtttgcaaa ggggaggcat cagtgtcctt ggcaggctga 60

tttctaggta ggaaatgtgg tagcctcact tttaatgaac aaatggcctt tattaaaaac 120

tgagtgactc tatatagctg atcagttttt tcacctggaa gcatttgttt ctactttgat 180

atgactgttt ttcggacagt ttatttgttg agagtgtgac caaaagttac atgttt 236

<210> 679
<211> 280
<212> DNA
<213> Homo sapiens

<400> 679
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agttggaatg ttgtagttac ctactgagta ggcggcgatt tttgtatgtt atgaacatgc 120

agttcattat tttgtggttc tattttactt tgtacttgtg tttgcttaaa caaagtgact 180

gtttggctta taaacacatt gaatgcgctt tattgcccat gggatatgtg gtgtatatcc 240

ttccaaaaaa ttaaaacgaa aataaagtag ctgcgattgg 280

<210> 680
<211> 215
<212> DNA
<213> Homo sapiens

<400> 680
caaacttgga gcaggtgtcc atcccagccc tgtgtagtta gagcaggaat caagatctca 60

acacaaatgt ggctgccaag cactcagccc cggggcgagg ggtcaagttc ttctcagaga 120

aagaggaata agttggttct cagaagacat cacaagatac gtgtgtaccc aacaatctct 180

gatctctgct gatcttttgc ttagacgtta acttg 215

<210> 681
<211> 258
<212> DNA
<213> Homo sapiens

<400> 681
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ggcctcacat ttctctgtgt gatcccccac ttctgggctc tgccacccca cagtgggaaa 120

ggccacccta gaaagaagtc cgctggcacc cataggaagg ggcctcagga gcaggaaggg 180

ccaggaccag aaccttgccc acggcaactg ccttcctgcc tctccccttc ctcctctgct 240

cttgatctgt gtttcaat 258

<210> 682
<211> 248
<212> DNA
<213> Homo sapiens

<400> 682
gaaactccct agttccttca tgtaacttcc ctgaaaaatc taagtgtttc ataaatttga 60

gagtctgtga cccacttacc ttgcatctca caggtagaca gtatataact aacaaccaaa 120

gactacatat tgtcactgac acacacgtta taatcattta tcatatatat acatacatgc 180

atacactctc aaagcaaata atttttcact tcaaaacagt attgacttgt ataccttgta 240

atttgaaa 248

<210> 683
<211> 39
<212> DNA
<213> Homo sapiens

<400> 683
ggtaggttga agggacctct ctcttaccag taccagaaa 39

<210> 684
<211> 72
<212> DNA
<213> Homo sapiens

<400> 684
tctatttatt tattgaggac ccatggtaaa atgcaaatag atccggtgtc taaatgcatt 60

catattttta tg 72

<210> 685
<211> 241
<212> DNA
<213> Homo sapiens

<400> 685
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tttttaaaaa cactcttatc agcctgggca acacagtgag actccatctc ttaaaaaaaa 120

aattagctgg gtatagtggt atgtgcctgt agtcccaggt actcaggagg ctgaggcagg 180

aggattgcct gagcccagga ggtggaaact gcagagagtc atgatcatgt ccttacactc 240

c 241

<210> 686
<211> 278
<212> DNA
<213> Homo sapiens

<400> 686
gtaataaact ctctagggcc aaaacctggt atggtcattg ggaaatgagt gctcagggag 60

atggagctta ggggaggtgg gtgcttccct cctagatgtc agcatacact ctttcttctt 120

ttgtcccagg tctaaaacat ctttcctaga gaaaacaaaa gggactaaac tagaaatata 180

aagagcccta tacatgacag gtgatcacgt actgaatgat tttgaagtag tacaaacaat 240

aaaaattctc attccgcatc atcatgcggt ccatgatg 278

<210> 687
<211> 244
<212> DNA
<213> Homo sapiens

<400> 687
aaaagcttcc ccaactaaag cctagaagag cttctgaggc gctgctttgt caaaaggaag 60

tctctaggtt ctgagctctg gctttgcctt ggctttgcca gggctctgtg accaggaagg 120

aagtcagcat gcctctagag gcaaggaggg gaggaacact gcactcttaa gcttccgccg 180

tctcaacccc tcacaggagc ttactggcaa acatgaaaaa tcggcttacc attaaagttc 240

tcaa 244

<210> 688
<211> 118
<212> DNA
<213> Homo sapiens

<400> 688
ccagcactct gaaactgaga aatgttcaga atgtacggaa agatgatcag ctattttcaa 60

cataactgaa ggcatatgct ggcccataaa caccctgtag gttcttgata tttataat 118

<210> 689
<211> 264
<212> DNA

<213> Homo sapiens

<400> 689
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ggaaggaaga cattagtgat tagacaggag ggaagatatt agtgattaga cagcagggaa 120

gatattagtg gtaaagagtg aatgatagta gtgaatataa atggggctga ggaaacttta 180

agcataaaag attcctgaga tgactttaca agtctgtacg aatctgcctt gactgtatat 240

ttcatactgc ccaacaaaac aata 264

<210> 690
<211> 270
<212> DNA
<213> Homo sapiens

<400> 690
gttcctattc ttccattgta cgataatgtc tttaatatga aatgctacat tatttataat 60

tggtagagtt attgtatctt tttatagttg taagtacaca gaggtggtat atttaaactt 120

ctgtaatata ctgtatttag aaatggaaat atatatagtg ttaggtttca cttcttttaa 180

ggtttacccc tgtggtgtgg tttaaaaatc tataggcctg ggaattccga tcctagctgc 240

agatcgcatc ccacaatgcg agaatgataa 270

<210> 691
<211> 187
<212> DNA
<213> Homo sapiens

<400> 691
aattcatagt aatttcactc tctgcattga cttatgagat aattaatgat taaactatta 60

atgataaaaa taatgcattt gtattgttca taatatcatg tgcacttcaa gaaaatggaa 120

tgctactctt ttgtggttta cgtgtattat tttcaatatc ttaataccct aataaagagt 180

ccataaa 187

<210> 692
<211> 249
<212> DNA
<213> Homo sapiens

<400> 692
tcaccacaac agaacatgca gtactaaagc aatatatttg tgattcccca tgtaattctt 60

caatgttaaa cagtgcagtc ctctttcgaa agctaagatg accatgcgcc ctttcctctg 120

tacatatacc cttaagaacg ccccctccac acactgcccc ccagtatatg ccgcattgta 180

ctgctgtgtt atatgctatg tacatgtcag aaaccattag cattgcatgc aggtttcata 240

ttctttcta 249

<210> 693
<211> 199
<212> DNA
<213> Homo sapiens

<400> 693
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gccctagact aactgtattg tcctagtcac agctccttgc tttgatttca tccttgataa 120

aatgaagatg aaacttacac tacttctcca agcctttgc tgtcttaaga ataagacctg 180

agattaacac taaccctag 199

<210> 694
<211> 190
<212> DNA
<213> Homo sapiens

<400> 694
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caaattaata ttggtgttca agactatatc taattcctct gatcactttg agaaacaaac 120

ttttattaaa tgtaaggcac ttttctatga attttaaata taaaaataaa tattgttctg 180

attattactg 190

<210> 695
<211> 235
<212> DNA
<213> Homo sapiens

<400> 695
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cttgatagtg aacgtgtacc ttgggaactg gctcacccac ctgctaatag caccatcgtc 120

actattaagc agacatttca gttggtagaa tccatgtaga agtcatggac ttttctggga 180

aatgactttt ctgggaaatg acagtttctt tgacatattt tctttgccca cttta 235

<210> 696
<211> 243
<212> DNA
<213> Homo sapiens

<400> 696
gactgaggga tcgtagattt ttacaatctg tatctttgac aattctgggt gcgagtgtga 60

gagtgtgagc agggcttgct cctgccaacc acaattcaat gaatccccga ccccctacc 120

ccatgctgta cttgtggttc tttttttgta ttttgcatct gaccccgggg ggctgggaca 180

gattggcaat gggccgtccc ctctcccctt ggttctgcac tgttgccaat aaaaagctct 240

taa 243

<210> 697
<211> 192
<212> DNA
<213> Homo sapiens

<400> 697
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agccgggatt gtccaattac taaaatgtaa ataatcacgt attgtgggga ggggagttcc 120

aagtgtgccc tcctctcttc tcctgcctgg attatttaaa aagccatgtg tggaaaccca 180

ctatttaata aa 192

<210> 698
<211> 114
<212> DNA
<213> Homo sapiens

<400> 698
agcaagtgta gacaccttcg agggcagaga tcgggagatt taagatgtta cagcatattt 60

ttttttcttg ttttacagta ttcaattttg tgttgattca gctaaattat gaaa 114

<210> 699
<211> 123
<212> DNA
<213> Homo sapiens

<400> 699
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tcctcactct gggacagacg atgtatggaa actaaaaaga acatgcggca ccttaaaaaa 120

aaa 123

<210> 700
<211> 158
<212> DNA
<213> Homo sapiens

<400> 700
cagccccacc cctgtaaatg gaatttacca gatgaaggga atgaagtccc tcactgagcc 60

tcagatttcc tcacctgtga aatgggctga ggcaggaaat gggaaaaagt gttagtgctt 120

ccaggcggca ctgacagcct cagtaacaat aaaaacaa 158

<210> 701
<211> 206
<212> DNA
<213> Homo sapiens

<400> 701
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atttttcact ttgagaacca acattaattc catatgaatc aagtgttttg taactgctat 120

tcatttattc agcaaatatt tattgatcat ctcttctcca taagatagtg tgataaacac 180

agtcatgaat aaagttattt tccaca 206

<210> 702
<211> 252
<212> DNA
<213> Homo sapiens

<400> 702
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tcattgacaa taaatgtaag aaattggaat aaaaaagaga gacctgctgt tattcgcttt 120

tgttctccag tgatttgatt aactcagggc aaggctgaat atcagagtgt atcgcactga 180

agaataataa tccattcagt aatgttatag ttatcctcaa tctaaatatg tcaactgtca 240

ttttgctgct tt 252

<210> 703
<211> 227
<212> DNA
<213> Homo sapiens

<400> 703
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attgaaagct ttttgttcta tatttgcata gcctttgaaa tatttcttag tgcctaggag 120

gtctggggat tcctctttcg tggtggtcac taaccttact tgatgcagat aaaatcactt 180

gtcaatgcaa aatgtgttag aacttgataa agctttgagt ttgagaa 227

<210> 704
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (77)..(117)
<223> n is a, c, g, or t

<400> 704
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ctgagctgtg acaaggnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaag 120

ggcaagtgct gttttcctgt tttcttcctt atcttagttg taatgaatca cttttataac 180

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ccaggaataa cgtgctatgg aa 262

<210> 705
<211> 275
<212> DNA
<213> Homo sapiens

<400> 705
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gcttcataat aaagttactt aactgtgcct cttcctcctt cctctcccca cacaggatgg 120

atgggcatct ttctccttga ccaccctact ctcccttcct cccctgatca cctcccctcc 180

ctgctcttcc ctggtgatgg acttctaaca tgagattttt ttaaaaaatt tctatttctt 240

ttataatttt gctgagtttt cagggtttct tctgt 275

<210> 706
<211> 81
<212> DNA
<213> Homo sapiens

<400> 706
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tcaacgcatg aagggagcca c 81

<210> 707
<211> 147
<212> DNA
<213> Homo sapiens

<400> 707
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tgtttcataa tatcaagatt actaaaaatg ggggaaagga cttctaatct ttttttcata 120

atatctttga cacatattac agaagaa 147

<210> 708
<211> 47
<212> DNA
<213> Homo sapiens

<400> 708
acacagtgct ttccgtggca ctgcatacaa tctgaggcct cctctct 47

<210> 709
<211> 52
<212> DNA
<213> Homo sapiens

<400> 709
taaatatcca cagtactcac tttttccaaa tgatcctagt aattgcctag aa 52

<210> 710
<211> 222
<212> DNA
<213> Homo sapiens

<400> 710
ggtgttggca ctaacgctgc ttgtttggca aatcatcatc actgaggtat tccacccaga 60

gacttttca aaaaagtcaa ctaaagtgct aagtcataag aggagagcca ttatacccgt 120

tgtctttctg ggctccttga gtttatctgg attccaacag cacttggaaa gtaccgccct 180

ccactacctc aaatgcaaac acaatctctg ccagtagaca tt 222

<210> 711
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (33)..(33)
<223> n is a, c, g, or t

<400> 711
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agcaatcaag gcatgtcttt aaattctata catagatata gccaaaaata gtgcatttag 120

taacattctt ttccaaaact atattcttgg gaatgaatat ctgtttcttc taacagtttg 180

agtgataatc tatacctgta gatataagtt attttgcata taaaattaat cttaatcttt 240

tatggaatgt tctctgtctg tggcattaaa tgaaccttaa gaac 284

<210> 712
<211> 224
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (144)..(144)
<223> n is a, c, g, or t

<400> 712
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ttttctctcc cacttttca tattcctctt tttcattttt gcctttccgt ttctgtctat 120

gatgtaggct tctgaggaga accnagaagc ttggctttag tggtagaatg acagaactta 180

gggatccctt gcaggctaga acaaagttct gacccttaga ccaa 224

<210> 713
<211> 224
<212> DNA
<213> Homo sapiens

<400> 713
gaaattgcat caagcgtccg aacatgctgc ttacaacttt agaaacgcaa aatgcgttgt 60

tgtgggagtt gtgtaatttt tagtaggtgc tcaaatactt gctgaacttg gtgtctattt 120

ttaagtcttg cccattgatg taaactgtcc ctaggtcacg tgtatcttga ggtctaaaag 180

attatttatg caataaattg aaattcccat agccaattaa agat 224

<210> 714
<211> 194
<212> DNA
<213> Homo sapiens

<400> 714
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agagatgctg ggagcaagtc tgcattgaag atgtatttct gttgctttac taccaaccct 120

ggttataaat gatgaaacta taatgggtct gtaatagcta ctttcccata tagctcttgt 180

ctgtacatac ataa 194

<210> 715
<211> 227
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (71)..(72)
<223> n is a, c, g, or t

<220>
<221> misc_feature

<222> (185)..(187)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (189)..(191)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (193)..(195)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (199)..(199)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (201)..(202)
<223> n is a, c, g, or t

<400> 715
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gcaccatgtg nnttttttt tttatctagt tcttgtatac tacagataat atttgaactt 120

tgtcatctca ctgtaaaact tttgttcatt tctcattatg gtaataaata gctattataa 180

ccaannnann nannnaaana nnttatttcc ctaagtgtta ttttgac 227

<210> 716
<211> 183
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (126)..(127)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (135)..(135)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (138)..(138)
<223> n is a, c, g, or t

<400> 716
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ttatctattt atagttatga gattaagact ggagtgccat caccgcgggt gatgatttag 120

cttttnntgt gtgtntgngt gtgtgccttc caaatcatgc cataattgta atgttgaatc 180

gga 183

<210> 717
<211> 288
<212> DNA
<213> Homo sapiens

<400> 717
tgtgcccaac cattgtaata tgcgtattga cgtatatgat aggagaaaac actagcattt 60

tgagttaata agtaggtcag tttggattaa tggaaagttt gaagcttaga gtgtttaaat 120

aatgatttta ttcttttcaa tacacaagtg gaaatgtttc tccagtctaa attcccccta 180

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<210> 718
<211> 183
<212> DNA
<213> Homo sapiens

<400> 718
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ccttgctcct ggctggggcc tgttgaagat gcttgtattt actttttcca ttgtaattgc 120

tatcgccatc acagctgaac ttgttgagat ccccgtgtta ctgcctatca gcattttact 180

act 183

<210> 719
<211> 205
<212> DNA
<213> Homo sapiens

<400> 719
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catccaaggc caggttctcc gttagctcct gtggccccac cctgggccct gggctggaat 120

caggaatatt ttccaaagag tgatagtctt ttgcttttgg caaaactcta cttaatccaa 180

tgggtttttc cctgtacagt agatt 205

<210> 720
<211> 189
<212> DNA
<213> Homo sapiens

<400> 720
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accttcgagg ggaagccccc ggaggaccag ctcccgctgg gggagtacgg cctcaagccc 120

ctgagcaccg tgttcatgaa tctgcgcctg cggggaggcg gcacagagcc tggcgggcgg 180

agctaaggg 189

<210> 721
<211> 191
<212> DNA
<213> Homo sapiens

<400> 721
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gaaggagaaa ctcaagattg actcatgagg acctgaaggg tgacatccca ggaggggcct 120

ctgaaatttc ccacacccca gcgcctgtgc tgaggactcc ctccatgtgg ccccaggtgc 180

caccaataaa a 191

<210> 722
<211> 217
<212> DNA
<213> Homo sapiens

<400> 722
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ctgacttctc acttcctaag ttcccttcta tatcctcaag gtagaaatgt ctatgttttc 120

tactccaatt cataaatcta ttcataagtc tttggtacaa gtttacatga taaaaagaaa 180

tgtgatttgt cttcccttct ttgcactttt gaaataa 217

<210> 723
<211> 233
<212> DNA
<213> Homo sapiens

<400> 723
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tgtaacattc ctgaagctgt tcccactccc agatggtttt atcaatagcc tagaggtaaa 120

gaactgtctt tttctctgat tctttaataa attatcttta tagaatatgc acaagttttt 180

ctacactcag tgttaaagta tttattaatg ggaagtcaac ttaatgtttt gaa 233

<210> 724
<211> 250
<212> DNA
<213> Homo sapiens

<400> 724
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aaagaaagtt tcagattcaa caggggggaag aaaatggaga tttaatccta aaactgtgac 120

ttggggaggt cagtcattta cagttagtcc tgtgtctttc gacttctgtg attattaacc 180

ccactcacta ccctgtttca gatgcatttg gaataccaaa gattaaatcc ttgacataag 240

atctcatttg 250

<210> 725
<211> 183
<212> DNA
<213> Homo sapiens

<400> 725
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ttgtggtact tcaccctctt ctgccctcat ttcatgtgac agccattgtg agactgatgc 120

acaaactgtc acttggttaa tttaagcact tctgttttcg tgaatttact tgattgtttc 180

ttc 183

<210> 726

<211> 77
<212> DNA
<213> Homo sapiens

<400> 726
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aaacaccgcc agcgtgg 77

<210> 727
<211> 231
<212> DNA
<213> Homo sapiens

<400> 727
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aaatccaaaa tgagaaaaac agaaagcatg tagcattcca tgaagcaaga acagcgtgca 120

tatgctattc ctggaaatac tgaagtgtcc gaatttcatg cctaaaaagt ctggaaatca 180

cactgaatca gttgctggtt tctgatgtct ctgggatgtg ctattacaaa c 231

<210> 728
<211> 77
<212> DNA
<213> Homo sapiens

<400> 728
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acgtggacac attaaat 77

<210> 729
<211> 269
<212> DNA
<213> Homo sapiens

<400> 729
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ttttttttga gatgggttct cactatattg tccaggctag agtgcagtgg ctattcacag 120

atgcgaacat agtacactgc agcctccaac tcctagcctc aagtgatcct cctgtctcaa 180

cctcccaagt aggattacaa gcatgcgccg acgatgccca gaatccagaa ctttgtctat 240

cactctcccc aacaacctag atgtgaaaa 269

<210> 730
<211> 229
<212> DNA
<213> Homo sapiens

<400> 730
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ttgcttcaat caaaagtggt ttcaatattt tttttagttg gttagaatac tttcttcata 120

gtcacattct ctcaacctat aatttggaat attgttgtgg tcttttgttt tttctcttag 180

tatagcattt ttaaaaaaat ataaaagcta ccaatctttg tacaatttg 229

<210> 731
<211> 216
<212> DNA
<213> Homo sapiens

<400> 731
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aggaaagatt gatggccctc ccacttgaac tgacagcctg tgagcccctt gggggcatag 120

actgccttcc ttggaccctt ccaaagtgtg tggtacgggg ctcagtgcac agagtattca 180

cccagcatca tgaatcaact tgggaggagt caacca 216

<210> 732
<211> 165
<212> DNA
<213> Homo sapiens

<400> 732
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tgggaaggcg cgagaccgcg caggcgcagt accgcgggtg ccgcccaggt gatgcgcatg 120

cgcaccgggt agcagagcta gcgctactca gtaaaaatcc aatat 165

<210> 733
<211> 124
<212> DNA
<213> Homo sapiens

<400> 733
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gctacatccc cccaccccag ctggtctgct tggatttcct acagcccccg tgggcatgga 120

ccac 124

<210> 734
<211> 156
<212> DNA
<213> Homo sapiens

<400> 734
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atgcactgta ctgtattttt atattgctgt ttaaaacttt taagctgtgc ctcacttatt 120

aaagcacaaa atgttttacc tactccttat ttacga 156

<210> 735
<211> 276
<212> DNA
<213> Homo sapiens

<400> 735
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ctttattgtg gcatctgttc gaggtttgct tcctctttaa gtctgtttct tcattagcaa 120

tcatatcagt tttaatgcta ctactaacaa tgaacagtaa caataatatc cccctcaatt 180

aatagagtgc tttctatgtg caaggcactt ttcacgtgtc acctatttta acctttccaa 240

ccacataaat aaaaaaggcc attattagtt gaatct 276

<210> 736
<211> 257
<212> DNA
<213> Homo sapiens

<400> 736
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ctgcagccca tcctcccggc tccctcctag tctgtcctgc gtcctctgtc cccgggtttc 120

agagacaact tcccaaagca caaagcagtt tttccccta ggggtgggag gaagcaaaag 180

actctgtacc tattttgtat gtgtataata atttgagatg tttttaatta ttttgattgc 240

tggaataaag catgtgg 257

<210> 737
<211> 283
<212> DNA
<213> Homo sapiens

<400> 737
cgcatgttat ggtgctaatg tactttcact tttaaactct agatcagaat tgttgacttg 60

cattcagaac ataaatgcac aaaatctgta catgtctccc atcagaaaga ttcattggca 120

tgccacaggg gattctcctc cttcatcctg taaaggtcaa caataaaaac caaattatgg 180

ggctgctttt gtcacactag catagagaat gtgttgaaat ttaactttgt aagcttgtat 240

gtggttgttg atctttttt tccttacaga cacccataat aaa 283

<210> 738
<211> 254
<212> DNA
<213> Homo sapiens

<400> 738
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atccagcata ttcataacta gagccatatc acagatgcat tcatcataat aattccagac 120

attttcatca ccctaaaagg aaaccctgaa acccattagc agtcattccc cattcctcca 180

acccattctc tccctaatcc ctagaaacca ccaatctgct gtgtatttca tctattgcca 240

acatttcata taaa 254

<210> 739
<211> 217
<212> DNA
<213> Homo sapiens

<400> 739
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acaccaaatt gtctcttcaa atacgtatgg actggataac tctgagaaac acatctagta 120

taactgaata agcagagcat caaattaaac agacagaaac cgaaagctct atataaatgc 180

tcagagttct ttatgtattt cttattggca ttcaaca 217

<210> 740
<211> 171
<212> DNA
<213> Homo sapiens

<400> 740
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ggccctgctg gtccttctgg ccctgctgga aaagatggtc gcactggaca tcctggtaca 120

gttggacctg ctggcattcg aggccctcag ggtcaccaag gccctgctgg c 171

<210> 741
<211> 289
<212> DNA
<213> Homo sapiens

<400> 741
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agaacttcct ccagagcaaa gggcttaaga aagaaagaag aactctaagc tgggtctgct 120

aacatcactc agtttagat ggatcttggc agagagacat gcttgttcct ctggattgga 180

aagatgattt actctcggga atcttctctg tcagcctgta catctaaagg catgaagcac 240

tcaattgggc aattaacatt agtgtttgtt ctctgatggt atctctgag 289

<210> 742
<211> 271
<212> DNA
<213> Homo sapiens

<400> 742
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tatttatttt atttagacta ccagcaaaga ttaaagcatg aaatgtaaaa catctgataa 120

aacttacagc cccctacacc aagagtgtat ctgtgaaaga gctcctacac tttgaaaact 180

taagaatccc ttatcatgaa gtttgcctgt tctagaattg taagattgtt aatttccttc 240

aatctctagt gacaacactt aatttctttt c 271

<210> 743
<211> 193
<212> DNA
<213> Homo sapiens

<400> 743
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taactcaaat atcttaagtt ttacttcact tacaatttca ataatgctga aattttgatt 120

gaatattgtg tttgtagtgc tacctctttt tcgttcataa gaacaaaagc ctatcattct 180

cttagtttct aaa 193

<210> 744
<211> 206
<212> DNA
<213> Homo sapiens

<400> 744
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ttacgtaaac agcaaagtaa ttttatagtg cttcatccat ttatcatgct ttggtttgct 120

aatttttca catacctttt tctatcacag tctgttgctt ttgtacacat ttctcatatt 180

ggggttcgac aggtaaacac aaactg 206

<210> 745
<211> 242
<212> DNA
<213> Homo sapiens

<400> 745
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actcatatta ttgttatgta aatacagagt tttaatgcag tatgacatcc cacaggggaa 120

aagaatgtct gtagtgggtg actgttatca aatattttat agaatacaat gaacggtgaa 180

cagactggta acttgtttga gttcccatga cagatttgag acttgtcaat agcaaatcat 240

tt 242

<210> 746
<211> 266
<212> DNA
<213> Homo sapiens

<400> 746
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atcacagaag attaaaattc agaaaggaga aaacacagac caaagagaag tatctaagac 120

caaagggatg tgttttatta atgtctagga tgaagaaatg catagaacat tgtagtactt 180

gtaaataact agaaataaca tgatttagtc ataattgtga aaaataataa taatttttct 240

tggatttatg ttctgtatct gtgaaa 266

<210> 747
<211> 202
<212> DNA
<213> Homo sapiens

<400> 747
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gagaagatac catttgatcc agcagaaatg tccaaatgat atcaggtcct caatcttcag 120

ctacagggaa tgagtaactt tgagtggaga agaaacaaac atagtgggta taatcatgga 180

tcgcttgtac ccctgtgaaa at 202

<210> 748
<211> 208
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (124)..(124)

<223> n is a, c, g, or t

<400> 748
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ggtttattgt tgggactatt ctttaaaata tccattgttc actacagtga agatctctga 120

tttnaccgtg tactatccac atgcattaca aacatttcgc agagctgctt agtatataag 180

cgtacaatgt atgtaataac catctcat 208

<210> 749
<211> 150
<212> DNA
<213> Homo sapiens

<400> 749
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ttactttaaa cattttgaaa agcttatact ggcagcctag aaaaacaaac aattaatgta 120

tctttatgtc cctggcacat gaataaactt 150

<210> 750
<211> 97
<212> DNA
<213> Homo sapiens

<400> 750
caaattcaag tcactagact tcagagttca acacctggac atgagaagat attatattat 60

gtaccataaa tatttcctgt atctgactgc ctgaaca 97

<210> 751
<211> 237
<212> DNA
<213> Homo sapiens

<400> 751
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tgaatcaatt ggaataaaac ctgactcgca ggtgactgga caggaaatcc caaagttcca 120

ccatttctat gcttaatttt aacgtccccc cgctttttt tttgtagaaa ataaaaacaa 180

gaaaatcgtt ccaatgtaag atgtttgtta tagaaacttt aggcaataca ggtgtgt 237

<210> 752
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (54)..(55)
<223> n is a, c, g, or t

<400> 752
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tttttgtgtg aatatttaat ggtgctccat gactgttgag ttttaaaaac ctcgttaaat 120

tttgccaaat cagttgcccc caaaagggaa tatgcttttc cttatttttt tttctaaaat 180

gctatttatc tctaaggaaa aaaaaaaaag actattactc atttaacatt gtttaagcag 240

gttgagctag ctgtgaaaat agcttttgtg agccttctaa ttcctaaacg tc 292

<210> 753
<211> 243
<212> DNA
<213> Homo sapiens

<400> 753
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tttcactatt gtcttctgaa atttgggtct gatggccagt attgactttt agaggcttaa 120

ataggagttt ggtaaagatt ggtaaatgag ggcatttaag atttgccatg ggttgcaaaa 180

gttaaactca gcttcaaaaa tggatttgga gaaaaaaaga ttaaattgct ctaaactgaa 240

tga 243

<210> 754
<211> 120
<212> DNA
<213> Homo sapiens

<400> 754
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tgtacagttc tatactgtta tctgtgtcca tttccaaaac ttgcacgtgt ccctgaattc 120

<210> 755
<211> 185
<212> DNA
<213> Homo sapiens

<400> 755
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gaattagagg acagtggcct accctaaata aagacatgag tgatgtataa agtctagtgt 120

caatttattc agaaaatatc aaaattattc tgggagctat gggtcaaagt tgataggcac 180

aaaca 185

<210> 756
<211> 130
<212> DNA
<213> Homo sapiens

<400> 756
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taacccaggg ggaccttagc atgcctaagt gactaaacca ataaaaatgt tctggtctgg 120

cctgaaaaaa 130

<210> 757
<211> 86
<212> DNA
<213> Homo sapiens

<400> 757

aagcagacta cgagaaacac aaagtctacg cctgcgaagt cacccatcag ggcctgagct 60

cgcccgtcac aaagagcttc aacagg 86

<210> 758
<211> 264
<212> DNA
<213> Homo sapiens

<400> 758
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gaggaacaat aattcggatg tttctctcca caatgtcctc attaggatct tcggaagaac 120

ggatgatcct ggaagtaatc cgggcacact tacatttgtt gtcaacaaga acaatccttt 180

catcttcttg ggctttcaca tgaacagcct taataaaaac cgccaggact ccccagaaaa 240

gcaaatggtt cttcatcttg accc 264

<210> 759
<211> 101
<212> DNA
<213> Homo sapiens

<400> 759
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gtctagtgct caaaacttgc agctagaatt gagggaagag a 101

<210> 760
<211> 233
<212> DNA
<213> Homo sapiens

<400> 760
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atgaagacag agccccaccc tcagatgcac atgagctggc gggattgaaa gatgctgtct 120

tcgtactggg aaagggattt tcagccctca gaatcgctcc accttgcagc tctccccttc 180

tctgtattcc tagaaactga cacatgctga acatcacagc ttatttcctc att 233

<210> 761
<211> 256
<212> DNA
<213> Homo sapiens

<400> 761
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cccatcttcc aagggtataa ggaatctttc tgctttgggg tttatcagaa ttctcagaat 120

ctcaaataac taaaaggtat gcaatcaaat ctgcttttta aagaatgctc tttacttcat 180

ggacttccac tgccatcctc ccaaggggcc caaattcttt cagtggctac ctacatacaa 240

ttccaaacac atacag 256

<210> 762
<211> 259
<212> DNA

<213> Homo sapiens

<400> 762
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accaaatgtt gacctgacga aattccacaa aacctcttct ggaaacagta ctagcaaagg 120

ccagacgtct tactcaacaa cttccctgcc accacctcca ccatcccatc cggccagcca 180

accaccattg ccagcatctc acccatcaca accaccagtc ccaagcctac ctcccagaaa 240

cattaaacct ccgtttgac 259

<210> 763
<211> 114
<212> DNA
<213> Homo sapiens

<400> 763
ggacctgtac accacgagca gccagctgac cctgccggcc acacagtgcc tagccggcaa 60

gtccgtgaca tgccacgtga agcactacac gaatcccagc caggatgtga ctgt 114

<210> 764
<211> 265
<212> DNA
<213> Homo sapiens

<400> 764
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attattaaaa acaccaccaa agaaaataaa tatatcctac ttgaaattta ctctatggac 120

ttacccactg ctagaataaa tgtatcaaat cttatttgta aattctcaat tttgatatat 180

atatgtatat atgcatatac atatccacac ttgtctgcaa gaatattgat taaaattgct 240

aaatttgtac ttgttcacca gaaaa 265

<210> 765
<211> 198
<212> DNA
<213> Homo sapiens

<400> 765
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gcccagagga ctgttaataa cgatgatcca tgtgttttac tctaaagtgc taaatatggg 120

agtttccttt ttttactctt tgtcactgat gacacaacag aaaagaaact gtagaccttg 180

ggacaatcaa catttaaa 198

<210> 766
<211> 162
<212> DNA
<213> Homo sapiens

<400> 766
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tctcttagga atacagtttc tagcattaaa caaataaaca aggggagaaa ataaaactca 120

aggagtgaaa atcaggaggt gtaataaaat gttcctcgca tt 162

<210> 767
<211> 256
<212> DNA
<213> Homo sapiens

<400> 767
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cgccctgttt ctctcaggaa gccttgctct tttccatcat gcctctaatc acagcttata 120

atcggatatt tatttctgtg tctacagtct tgccctgcca gactgtatgc cccatgtggg 180

caggcgctca tgattgtttc tgattgtttc acgcatgctg ctaacccaga gcctgggccc 240

aaagctagtt agtact 256

<210> 768
<211> 294
<212> DNA
<213> Homo sapiens

<400> 768
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tttgttttgc tctattgttt agtttttact tgggtgcaat gtgtacgtca aaagttttta 120

ttttgatatt tgaaagagac caaatcaggc ccagaccgcc tctctggaag gtgttgtagg 180

ccattcaaaa cgcctccgga gtgtcgcaaa ccaagtgcgg aggggccctg aggttgtact 240

gtaaacatca tagtgacttg tcttttcaaa tatattccca ctattttcgc agaa 294

<210> 769
<211> 221
<212> DNA
<213> Homo sapiens

<400> 769
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ggcagcaggg gaacatcttc tcatgctccg tgatgcatga ggctctgcac aaccgcttca 120

cgcagaagag cctctccctg tctccgggta aatgagtgcg acggccggca agccccccgct 180

ccccgggctc tcggggtcgc gcgaggatgc ttggcacgta c 221

<210> 770
<211> 239
<212> DNA
<213> Homo sapiens

<400> 770
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ctctgacttt gctgtttcca gtggtatgac cttggagaag tcacttatcc tcttggagcc 120

tcagtttcct catctgcaga ataatgactg acttgtctaa ttcgtaggga tgtgaggttc 180

tgctgaggaa atgggtatga atgtgccttg aacacaaagc tctgtcaata agtgataca 239

<210> 771
<211> 181

<212> DNA
<213> Homo sapiens

<400> 771
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gataaatcaa gtgattggtg tgcctgggtc tcactacaag cagcctatct gcttaagaga 120

ctctggagtt tcttatgtgc cctggtggac acttgcccac catcctgtga gtaaaagtga 180

a 181

<210> 772
<211> 228
<212> DNA
<213> Homo sapiens

<400> 772
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tcaggggcgg ggagggtgac agtggccgcc caaggcccac gagcttgttc tttgttcttt 120

gtcacaggga ctgaaaacct ctcctcatgt tctgctttcg attcgttaag agagcaacat 180

tttacccaca cacagataaa gttttccctt gaggaaacaa cagcttta 228

<210> 773
<211> 136
<212> DNA
<213> Homo sapiens

<400> 773
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acgtctgcta acttggagcc ccagtgccaa gcacagtgcc tgcatgtatt tatccaataa 120

atgtgaaatt ctgtcc 136

<210> 774
<211> 193
<212> DNA
<213> Homo sapiens

<400> 774
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aaaaaaatcc cccagcactt cccacagtgc ctattgatac ttggggaggg tgcttggcac 120

ttattgaata tatgatcggc catcaaggga agaactattg tgctcagaga cactgttgat 180

aaaaactcag gca 193

<210> 775
<211> 175
<212> DNA
<213> Homo sapiens

<400> 775
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ccagcccctg ccatttctta agactttctg ctgcactcac aggatcctga gctgcactta 120

cctgtgagag tcttcaaact tttaaacctt gccagtcagg acttttgcta ttgca 175

<210> 776
<211> 183
<212> DNA
<213> Homo sapiens

<400> 776
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gtttccaaaa aatggtactc cacatacttc agtgagggta agtattttcc tgttgtcaag 120

aatagcattg taaaagcatt ttgtaataat aaagaatagc tttaatgata tgcttgtaac 180

taa 183

<210> 777
<211> 235
<212> DNA
<213> Homo sapiens

<400> 777
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gcccatcaaa tcctgagtgt cagtttgttg tccctattgt agatgaaata gtgatgtagc 120

aaaaacctag taaattctga atgcttttcc acgtagactt atctggaatg tgaacacaac 180

tctttggtta atagtaaatg cttaactgta gtcctgagta ggtgcatttc tgtct 235

<210> 778
<211> 154
<212> DNA
<213> Homo sapiens

<400> 778
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accttcatca ctattcttag gataatgctg gcgggcagag atgatcaatc atcatattaa 120

atcataatga gcttataatc ctcccactgg aaaa 154

<210> 779
<211> 280
<212> DNA
<213> Homo sapiens

<400> 779
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gcatggggtg ttggcagggg tcaaaaagct tatttctttt aatctcttac tcaacgaaca 120

catcttctga tgatttccca aaattaatga gaatgagatg agtagagtaa gatttgggtg 180

ggatgggtag gatgaagtat attgcccaac tctatgtttc tttgattcta acacaattaa 240

ttaagtgaca tgatttttac taatgtatta ctgagactag 280

<210> 780
<211> 206
<212> DNA
<213> Homo sapiens

<400> 780
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ataaaattat tgtatagaca tctgcttctt aaacagattg tgagttcttt gagaaacagc 120

gtggatttta cttatctgtg tattcacaga gcttagcaca gtgcctggta atgagcaagc 180

atacttgcca ttacttttcc ttccca 206

<210> 781
<211> 247
<212> DNA
<213> Homo sapiens

<400> 781
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tagactgtgt gcgtgtgcgt tgatgggcac tcaagagtcc cgtgagtcat ccagccctgc 120

ctttcccctg cgccccatc ctctcacgtc ccgccctgcc tccacttggg gaccctgcct 180

cgtgtcgtct ttatctgcct attactcagc ctaaggaaac aagtacactc cacacatgca 240

taaagga 247

<210> 782
<211> 190
<212> DNA
<213> Homo sapiens

<400> 782
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cttgagtgtg ttacctcctt tccaagctcc tcgtgataat gcagacttcc tggagtacaa 120

acacaggatt tgtaattcct tactgtaacg gagtttagag ccagggctga tgctttggtg 180

tggccagcac 190

<210> 783
<211> 165
<212> DNA
<213> Homo sapiens

<400> 783
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ttatctctcc atgggaagct aagttataaa aataggtgct tggtgtacaa aacttttat 120

atcaaaaggc tttgccattt ctatatgagt gggtttactg gtaaa 165

<210> 784
<211> 260
<212> DNA
<213> Homo sapiens

<400> 784
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ctggaggggg aagagctctc aacccagagg gatctgacca ggaaggttca ccccccctcc 120

acccaggaag cccctgcaga cagtatgtgt tttaggcttt gctggccaaa tggtctctgc 180

cgtgactact cagctctgcc attgtggctg cagagtgacc atagaccttc tgaaagtgaa 240

tgagtatgac tgtgttccaa 260

<210> 785
<211> 197
<212> DNA
<213> Homo sapiens

<400> 785
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atgtttattc cctgtcagcg gagtggagaa tgtcattcat caataaacca aagccaatag 120

ctggagaatt gagatctggt tgaaagtggt ttatggttta catgctgtac tatcctgagg 180

aattgcgaga tattgct 197

<210> 786
<211> 187
<212> DNA
<213> Homo sapiens

<400> 786
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tggacttaag aataaacctt gtgtttaatc tctttttttc cttaaaattt taatgtgagt 120

tttctgttac gcaaattatc catgttagca catttggaac aaatgtataa atgtactttc 180

tgaataa 187

<210> 787
<211> 228
<212> DNA
<213> Homo sapiens

<400> 787
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tcaggggcgg ggagggtgac agtggccgcc caaggcccac gagcttgttc tttgttcttt 120

gtcacaggga ctgaaaacct ctcctcatgt tctgctttcg attcgttaag agagcaacat 180

tttacccaca cacagataaa gttttccctt gaggaaacaa cagcttta 228

<210> 788
<211> 213
<212> DNA
<213> Homo sapiens

<400> 788
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tgcgaggttc tactagctcc ctgcccctcg ccctgcagag aagagaacca tgccagggga 120

gaaggcaccc agccatcctg acccagcgag gagccaacta tcccaaatat acctggggtg 180

aaatatacca aattctgcat ctccagagga aaa 213

<210> 789
<211> 104
<212> DNA
<213> Homo sapiens

<400> 789

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cgtgtcttcc actttgcata tgagccgtga actgtgcata gtgc 104

<210> 790
<211> 132
<212> DNA
<213> Homo sapiens

<400> 790
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gctctattca atacttctcc tctcagatga tagtaaagat caaaagaatt cgaagggagt 120

tggtaaacgc tg 132

<210> 791
<211> 281
<212> DNA
<213> Homo sapiens

<400> 791
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gaatgttgtg ctgagctgtg cagcctgttc ctgcatctgt tgttcctgca ttttctgttg 120

ctctgccagc caattttgtt tggctatctc catttaactc acttgttcct gatggagtct 180

ctccctctcc tgcatcattt gctcgttctg cctttgaatc gccgccaacc tttgcgcttc 240

agccttttca gcttctgctt tcacttgtgc ctctgaggag a 281

<210> 792
<211> 239
<212> DNA
<213> Homo sapiens

<400> 792
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actcttcttc cctctaaact gccccacctc ctaacctaat ccccccgccc cgctgccttt 120

cccaggctcc cctcacccca gcgggtaatg agcccttaat cgctgcctct aggggagctg 180

attgtagcag cctcgttagt gtcacccccc cctccctgat ctgtcagggc cacttagtg 239

<210> 793
<211> 174
<212> DNA
<213> Homo sapiens

<400> 793
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cacctcaccc cactgtggct gatttggaat tttgtgcccc catgtaagca ccccttcatt 120

tggcattccc cacttgagaa ttacccttttt gccccgaaca tgtttttctt ctcc 174

<210> 794
<211> 270
<212> DNA
<213> Homo sapiens

<400> 794
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gaaacagact gcctgaattg agaattttga tttcttaaag tgtgtttctt tctaaattgc 120

tgttccttaa tttgattaat ttaattcatg tattatgatt aaatctgagg cagatgagct 180

tacaagtatt gaaataatta ctaattaatc acaaatgtga agttatgcat gatgtaaaaa 240

atacaaacat tctaattaaa ggctttgcaa 270

<210> 795
<211> 276
<212> DNA
<213> Homo sapiens

<400> 795
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ctttattgtg gcatctgttc gaggtttgct tcctctttaa gtctgtttct tcattagcaa 120

tcatatcagt tttaatgcta ctactaacaa tgaacagtaa caataatatc cccctcaatt 180

aatagagtgc tttctatgtg caaggcactt ttcacgtgtc acctatttta acctttccaa 240

ccacataaat aaaaaaggcc attattagtt gaatct 276

<210> 796
<211> 264
<212> DNA
<213> Homo sapiens

<400> 796
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gcccatcaaa tcctgagtgt cagtttgttg tcccctattgt agatgaaata gtgatgtagc 120

aaaaacctag taaattctga atgcttttcc acgtagactt atctggaatg tgaacacaac 180

tctttggtta atagtaaatg cttaactgta gtcctgagta ggtgcatttc tgtctgtctc 240

aataaatttt actttgtctg caaa 264

<210> 797
<211> 275
<212> DNA
<213> Homo sapiens

<400> 797
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taaatgttga cagaggccct gccccgttca cagatcctgg ccctgagcca gccctgtgct 120

cctccctccc ccaacactcc ctaccaaccc cctaatcccc tactccctcc acccccccctc 180

cactgtaggc cactggatgg tcatttgcat ctccgtaaat gtgctctgct cctcagctga 240

gagagaaaaa aataaactgt atttggctgc aagaa 275

<210> 798
<211> 210
<212> DNA
<213> Homo sapiens

<400> 798
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cgttcccctg ctgccacctg ctcttgtcca cggtgagctt gctatagagg aagaaggagc 120

cgtcggagtc cagcacggga ggcgtggtct tgtagttgtt ctccggctgc ccattgctct 180

cccactccac ggcgatgtcg ctgggataga 210

<210> 799
<211> 235
<212> DNA
<213> Homo sapiens

<400> 799
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aaatttaatt ttctacgcct ctggggatat ctgctcagcc aatggaaaat ctgggttcaa 120

ccagcccctg ccatttctta agactttctg ctccactcac aggatcctga gctgcactta 180

cctgtgagag tcttcaaact tttaaacctt gccagtcagg acttttgcta ttgca 235

<210> 800
<211> 162
<212> DNA
<213> Homo sapiens

<400> 800
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taagaaattg ccatttgaaa caatccattt tgtaactgaa ccttatgaaa tatatgtatt 120

tcatggtacg tattctctag cacagtctga gcaattaaat ag 162

<210> 801
<211> 249
<212> DNA
<213> Homo sapiens

<400> 801
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gtttgttttc catgtcatta ccccccagggg ataccgaatg tgtgggtaga aatttctctg 120

tagattaaaa atcagatttt tacatggatt caacaaagga gcgtcacttg gatttttgtt 180

ttcatccatg aatgtagctg cttctgtgta aaatgccatt ttgctattaa aaatcaattc 240

acgctggaa 249

<210> 802
<211> 200
<212> DNA
<213> Homo sapiens

<400> 802
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ttgttgggag atgacactgt cagtcagccc atgatgtctg ttcacacgag atgctttttt 120

aatagaattg accaatgttt tgctgccact gattaaagta ttatttatac taattgttgc 180

ttgtagtttt gatgtaattc 200

<210> 803
<211> 150
<212> DNA
<213> Homo sapiens

<400> 803
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gcttctagag cttagcatat ctgattgttg tcaggccata ttatcaatgt ttacttttt 120

ggtactataa aagctttctg ccacccctaa 150

<210> 804
<211> 142
<212> DNA
<213> Homo sapiens

<400> 804
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agtgtagaaa gacctgagaa aacgagcctg tttcagagga acatcgtcac aacgaatact 120

tctggaagct taacaaaact aa 142

<210> 805
<211> 224
<212> DNA
<213> Homo sapiens

<400> 805
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cagaatgagt gcttcagaat gtgatttcct actaacctgt tccttggata ggctttttag 120

tatagtattt ttttttgtc attttctcca tcagcaacca gggagactgc acctgatgga 180

aaagatatat gactgcttca tgacattcct aaactatctt tttt 224

<210> 806
<211> 176
<212> DNA
<213> Homo sapiens

<400> 806
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gttggatttg taaggcactt tatccctttt gtctcatgtt tcatcgtaaa tggcataggc 120

agagatgata cctaattctg catttgattg tcacttttg tacctgcatt aattta 176

<210> 807
<211> 250
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (221)..(221)
<223> n is a, c, g, or t

<400> 807

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tagtgagggt agtgtggcta agaggaaatg gatccagatg ggcttgatgg ggagcagatg 120

ggcaggcacg atggcagggg tgcatcggct cactggggct gcatctgagg taaatggaaa 180

taaaggaggt gaggaaatga ggaagagaag gaagtggcgg nactggctgt ggagttttgt 240

gggagccttc 250

<210> 808
<211> 178
<212> DNA
<213> Homo sapiens

<400> 808
taccagaata ggagttttcc tctgtggacc tgaagccttg gctgaaaccc tgagtaaaca 60

aagcatctcc aactctgagt ctggccctcg gggagtgcat ttcattttca acaaggaaaa 120

cttctaactt gtctcttcca tgaggaaata aatgtgggtt gtgctgccaa atgctcaa 178

<210> 809
<211> 229
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (48)..(48)
<223> n is a, c, g, or t

<400> 809
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ggaaatgata atgtaggcca cacgtattac tggagaaaaa tgtgctcccg agactttcca 120

gagcagcaga gctgggacta ggcaggtgag gcagctacgt gcaagtgtag ccctgagaat 180

gagcacctct ttaaagaatg taccttgcgt tagttctgtg cctgtttaa 229

<210> 810
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (204)..(204)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (230)..(230)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (234)..(234)
<223> n is a, c, g, or t

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tggcgtggtc ctagtttatg cctgtttcag catgattgtt gagtaccctg tttcatcctt 120

agcattttct tgattttgtt gttaaatgat gtataccctt atttccattg aatctgtgct 180

tccacccccc caactgaagt tgtnttccct ttgcttggcc acccttacan cctnttggat 240

ggtgtatcct acagtgtaag cactaaactg aagaggca 278

<210> 811
<211> 243
<212> DNA
<213> Homo sapiens

<400> 811
atcatagctc actgagattg ccaggttcga caaagaggaa tttataggat ggggatatag 60

ggtagacttg actctgcttt atccgggaaa gcttttaaaa ctctgagcca gttaactttg 120

agtaagcata aaacatactg tattggtgtt tgtatttttc atgccacaat attaaaatgg 180

aattttaaat gtagattatt ataatctata aaagataagt atgcatgtat taggatactg 240

gaa 243

<210> 812
<211> 151
<212> DNA
<213> Homo sapiens

<400> 812
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attcactcat cgagttactt attccttcgt aaaaaaaaaa aaaaaaaaat catttgagat 120

gataaaaatg gtagggtata gtttaagatg a 151

<210> 813
<211> 84
<212> DNA
<213> Homo sapiens

<400> 813
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taaaccacac tatcacctcg gccg 84

<210> 814
<211> 252
<212> DNA
<213> Homo sapiens

<400> 814
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cttgcaaatt tagcacttgg aacatttaaa gaaaggtcta tgctgtcata tggggtttat 120

tgggaactat cctcctggcc ccaccctgcc ccttcttttt ggttttgaca tcattcattt 180

ccacctggga atttctggtg ccatgccaga aagaatgagg aacctgtatt cctcttcttc 240

gtgataatat aa 252

<210> 815
<211> 272
<212> DNA
<213> Homo sapiens

<400> 815
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tcagctgccc ttctggcgag tacatgcaca ggattgtaaa tgagaaatgc agtcatattt 120

ccagtctgcc tctatgatga tgttaaatta ttgctgttta gctgtgaaca agggatgtac 180

cactggagga atagagtatc cttttgtaca cattttgaaa tgcttcttct gtagtgatag 240

aacaaataaa tgcaacgaat actctgtcaa aa 272

<210> 816
<211> 185
<212> DNA
<213> Homo sapiens

<400> 816
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agaatgtcag agctgagtct gctgttctga cttaaggaac aacttgactc agtctcttga 120

tggctggaga atgcacatcc tagctgtcac tggggctaca ggcaggtcag tgagcacgct 180

aaaat 185

<210> 817
<211> 256
<212> DNA
<213> Homo sapiens

<400> 817
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cctacgggga catcgtgatg acccagtctc cagactccct ggctgtgtct ctgggcgaga 120

gggccaccat caagtgcaag tccagccaga gtattttata taggtccaac aacaagaact 180

acttagcttg gtaccagcag aaagcaggac agcctcctaa attgttcatt tactgggcat 240

ctacccggga atccgg 256

<210> 818
<211> 146
<212> DNA
<213> Homo sapiens

<400> 818
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cacgtgcaat aaagtcctcg tgcctgctgc tcacagcccc cgagagcccc tcctcctgga 120

gaataaaacc tttggcagct gccctt 146

<210> 819
<211> 122
<212> DNA
<213> Homo sapiens

<400> 819

ccagacgtca accaggaaca tgtaacttgg agagggacga agaaagggtc tgataaacac 60

agaggtttta aacagtccct accattggcc tgcatcatga caaagttaca aattcaagga 120

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<210> 820
<211> 225
<212> DNA
<213> Homo sapiens

<400> 820
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tcttcttcca gctccttctc tctgaccttc tgcaatgcac ccctgtatac ctggtcctgg 120

cagtagacaa tctgttccat ctggaagtgg aggcggatca gcttctcacc ttctctctct 180

tgttctgctc taatgtcttc aattttggac ttggcggttc tgtgg 225

<210> 821
<211> 274
<212> DNA
<213> Homo sapiens

<400> 821
ggattatacc cgtcttagtc tcgatcattg ctttcacttg tgccactgag ctggaccttc 60

gcacctggag gaggtgcctc tttgcctcat cacctgactc cacaagaaac aagggcagct 120

cctcatcact gggcttcacc actttcaggg taaggtggat ggtcttctct ttgtcaatgc 180

cataagatga gaggcttctc cgtggcttta agatcttgga gcccagcaaa agaacctggt 240

cctgcacagg aaccttggta gtagaccgga ccca 274

<210> 822
<211> 256
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (201)..(201)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (206)..(206)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (221)..(221)
<223> n is a, c, g, or t

<400> 822
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ttttacaatt taataatgca tactttaaaa ttcatgataa atcatggaac cccactatac 120

tcactaattc aactattgat ttctttttga gcaactgact ttatgattta tccttaaaag 180

taaggaagta taccagaagg ncaaanggat aaatccaccc ntaaatacta gagtctaagt 240

tattttcctg aaaagg 256

<210> 823
<211> 143
<212> DNA
<213> Homo sapiens

<400> 823
gttgtcccca cagtagacac atatgatggc cgaggtgata gtgtggttta tggactgagg 60

tcaaaatcta agaagtttcg cagacctgac atccagtacc ctgatgctac agacgaggac 120

atcacctcac acatggaaag cga 143

<210> 824
<211> 199
<212> DNA
<213> Homo sapiens

<400> 824
gcacagctca gcacaacatt ccaagctcaa aatagaagcc ttctcagtga gctccagcac 60

gcccagagga ctgttaataa cgatgatcca tgtgttttac tctaaagtgc taaatatggg 120

agtttccttt tttttactct ttgtcactga tgacacaaca gaaaagaaac tgtagacctt 180

gggacaatca acatttaaa 199

<210> 825
<211> 224
<212> DNA
<213> Homo sapiens

<400> 825
ccttgacccc agtacgaagt ctatgccctg aatccccaga gtagcccttc ctggtgccca 60

actggcctgg ggacaaacag cgtccactac atctaggact gccggctaag tggacacact 120

tcttgacctc ctaccaggaa ctttggtaaa agctagcttt ggggaagggg ttgggtgtaa 180

atatgagagg gtggagggag accagctggt agcaataaac atgg 224

<210> 826
<211> 263
<212> DNA
<213> Homo sapiens

<400> 826
gagatcactt ggtaactggt ttcatgtgta tccaaaaatc agcatttgga tttaagcttt 60

ctgaatttgg tagtttaaga aacagattta gtttttcaat ggttttaact catgtgaaat 120

aatgattttc caccagctct gatgcaaaga gatataattt taatgaacga tttatccagc 180

agtgtgttcc aggggttgcc tctccttatc tacggggatt actttgtaca tgcagataag 240

ttttcgcaaa cctatttcca ttt 263

<210> 827
<211> 252
<212> DNA
<213> Homo sapiens

<400> 827
cactgtgtat gactgaaatt tctggaataa ctgtaaatgg ttatgttaat ggaataaaac 60

acaaatgttg aaaaatgtaa aatatatata catagattca aatccttata tatgtatgct 120

tgttttgtgt acaggatttt gttttttctt tttaagtaca ggttcctagt gttttactat 180

aactgtcact atgtatgtaa ctgacatata taaatagtca tttataaatg accgtattat 240

aacatttgaa aa 252

<210> 828
<211> 226
<212> DNA
<213> Homo sapiens

<400> 828
agatccactg aacatctgtg tctttatttt gctgcttgta tttattgtag tcaaatgctt 60

tacatcagaa tgatgaaaat aggcttgcca ctttctctta ttttaattcc atggtagtca 120

atgaactggc tgccacttta atataactga aaattcattt tgagaccaag caggatcaag 180

tttgtagaat aaacactggt ttcctagcca tcctctgaaa acagta 226

<210> 829
<211> 100
<212> DNA
<213> Homo sapiens

<400> 829
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aggattagca cttgattgaa gattctttta aaatactatc 100

<210> 830
<211> 239
<212> DNA
<213> Homo sapiens

<400> 830
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atttcatcac tgtatacttt caatccgaag ggccagtact acagcatgtt gcacaaatat 120

gtcaacagaa aagagaagac tcacagtatc aggtctactg aaggagatac ggtgattcct 180

gttcttggct ttgtagattc atctggtata aacagcactc ctgagttatg acctttttga 239

<210> 831
<211> 292
<212> DNA
<213> Homo sapiens

<400> 831
catcttagtg cctttatctg tctttatgtc ttggggttgg ggtaggtaga taccaaatga 60

aacactttca ggaccttcct tcctcttgca gttgttcttt aatctccttt actagaggag 120

ataaatattt tgcatataat gaagaaattt ttctagtata taacgcaggc cttttatttt 180

ctaaaatgat gatagtataa aaatgttagg ataacagaat gattttagat tttccagaga 240

atattataaa gtgctttagg tatgaaaata aatcatcttt gtctgattaa aa 292

<210> 832
<211> 207
<212> DNA
<213> Homo sapiens

<400> 832
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aatctcccaa atgactgtct ctatcttcat gagtgtgact tgaggtgttg ggatgggtga 120

gggagcttct ctaaagagga aagtgagtgg attaacccct gcttctcttc ttgttccctg 180

ttatcattcc tccccaacat aataata 207

<210> 833
<211> 183
<212> DNA
<213> Homo sapiens

<400> 833
aaaatctgat tttgcagcga tcacttttaa accctgtagt gatgtaagac taaaatataa 60

ttgctaagat tttgttggtt aatgtaaaga tatgactttt ctgcactgta ctctcttcat 120

aggattgtaa aggtgttcta atccaattgc atgatgtagt aagcctctta aatatgtgtg 180

tta 183

<210> 834
<211> 151
<212> DNA
<213> Homo sapiens

<400> 834
gtcttttgcg aaagggattg caggttcaga aggcatctta ccatggctgg ggaattgtct 60

ggtggtgggg ggcaggggac agaggccatg aaggagcaag ttttgtattt gtgacctcag 120

ctttgggaat aaaggatctt ttgaaggcca a 151

<210> 835
<211> 233
<212> DNA
<213> Homo sapiens

<400> 835
ttggcttcct tcctggcaag gaccaggcag tggggaagga ggaggtcctc cgtggtacat 60

actgggtcag gcactagcat ggaggagggt cacagagtgg ggcacgtgag gacccatgga 120

accgtcctgg tgcccaggcc ctcacaagta ccaaagccag caccaaagga gtcagggaag 180

gggttggctg agtcaaggga ccccagaggg caccaggaat aaaatcttct tga 233

<210> 836
<211> 211
<212> DNA
<213> Homo sapiens

<400> 836
aaatcggggt ccaggaaatc ctcaccagaa tctggcactg cagccaaagg cgatacttcc 60

agagttctag taggctgcta tggaatttct ggcatgaaaa ttcttgaccc ctcacacttt 120

acccccctgta cagcacaggc ataccatgga gatattacag gatcagttcc agaccaccat 180

aataaagtgg atatcgcaat aaagtgagtc a 211

<210> 837
<211> 270
<212> DNA
<213> Homo sapiens

<400> 837
ctttaaaggt gggtttttgc tgtgataaat gaatacggta ctctgaagga gaaaaaagtt 60

tctcaaatga gcttaaactg caagtgattt aaaaattaga gaatataatt cttaaagcta 120

ttgaaagttt caaccagaaa acctcaagtg aattttgtat gtaaatgaaa tcttgaatgt 180

aagttctgtg attctttaag caaacaatta gctgaaaact tggtattgtt gtagtttatg 240

tagtaagtga cttggcaccc atcagaaaat 270

<210> 838
<211> 253
<212> DNA
<213> Homo sapiens

<400> 838
gctttgtaaa gtgcatgtgg aattaatggg acagtgtgcc ctttgtgtta gatgttagag 60

caaaagaaag ggcttatagt gttagtattg gagcactttg aagatagata ttttcagaaa 120

agatgtagga tttaaaagtt aaattttaaa ttttagaaaa agatatgatg gcaattggaa 180

atagtcacaa tgaagttctt catccagtag gtgtttaaca gtgttatttt gccactggta 240

atgtgtaaac tgt 253

<210> 839
<211> 194
<212> DNA
<213> Homo sapiens

<400> 839
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tccagggcca gatgagcaga agctctcgat ggacaatgaa cggccttgct gggggccgcc 120

ctgtaccctc tttcaccttt ccctaaagac cctaaatctg aggaatcaac agggcagcag 180

atctgtatat tttt 194

<210> 840
<211> 217
<212> DNA
<213> Homo sapiens

<400> 840
aaactggtgg tggaatgcgt catgaaaggc gtcacttcca cgagagttta tgagagagca 60

taagccaagg gacgttgacc tggactgaag ttcgcattga actctacaac attctgtggg 120

atatattgtt caaaaagata ttgttgtttt ccctgattta gcaagcaagt aattttctcc 180

caagctgatt ttattcaata tggttacgtt ggttaaa 217

<210> 841
<211> 180
<212> DNA
<213> Homo sapiens

<400> 841
tcctgacttc taataacatt gatgtcaaga aaatgacggt cacagaccag gtgaactgcc 60

ccaagctctc gtaaccaggt tctacaggga ggctgcaccc actccatgtt acttctgctt 120

cgctttcccc taccccaccc ccccccccata aagacaaacc aatcaaccac gacaaaggaa 180

<210> 842
<211> 262
<212> DNA
<213> Homo sapiens

<400> 842
gtattttcct tacatgtaca gtagacgttc tctattctat cagccttcta tggtaccttt 60

ttgtcaggac aattaggatt gtaatgctaa tgcaaaggca gcaattcaaa gatcttctag 120

tgcctcatga ataaagttga gatttaaaat ttgtaacatt gatggaacag ctgggaggtt 180

agaccaatca ttaaggaatg tatgccatag ctttctttgc taccataaac attttggagg 240

tgcatctgct atgtgacatg gt 262

<210> 843
<211> 274
<212> DNA
<213> Homo sapiens

<400> 843
ttccttttct tcgtggccaa tgccataatc cacctcttct gcttcagttg aggtgacacg 60

tctcagcctt agccctgtgc cccctgaaac agctgccacc atcactcgca agagaatccc 120

ctccatcttt gggaggggtt gatgccagac atcaccaggt tgtagaagtt gacaggcagt 180

gccatggggg caacagccaa aatagggggg taatgatgta ggggccaagc agtgcccagc 240

tgggggtcaa taaagttacc cttgtacttg caaa 274

<210> 844
<211> 289
<212> DNA
<213> Homo sapiens

<400> 844
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tcatagaaag ggccttgaca tcagttcctt tgtgtgtact cactgaagcc tgcgttggtc 120

cagagcggag gctgtgtgcc tgggggagtt ttcctctata catctctccc caaccctagg 180

ttccctgttc ttcctccagc tgcaccagag caacctctca ctccccatgc cacgttccac 240

agttgccacc acctctgtgg cattgaaatg agcacctcca ttaaagtct 289

<210> 845
<211> 255
<212> DNA
<213> Homo sapiens

<400> 845
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ttaaatgtgt cattggaagc catccctttt tttacatttc atacaacaga aaccagaaaa 120

gcaatactgt ttccatttta aggatatgat taatattatt aatataataa tgatgatgat 180

gatgatgaaa actaaggatt tttcaagaga tctttctttc caaaacattt ctggacagta 240

cctgattgta ttttt 255

<210> 846
<211> 166
<212> DNA
<213> Homo sapiens

<400> 846
attcctgtca ttacccattg taacagagcc acaaactaat actatgcaat gttttaccaa 60

taatgcaata caaaagacct caaaatacct gtgcatttct tgtaggaaaa caacaaaagg 120

taattatgtg taattatact agaagttttg taatctgtat cttatc 166

<210> 847
<211> 198
<212> DNA
<213> Homo sapiens

<400> 847
gcactggcga ggagagggcg ctcctctctg cacacctact agtcaccaga gactttaggg 60

ggtgggattc cactcgtgtg tttctatttt ttgaaaagca gacattttaa aaaatggtca 120

cgtttggtgc ttctcagatt tctgaggaaa ttgctttgta ttgtatatta caatgatcac 180

cgactgaaaa tattgttt 198

<210> 848
<211> 187
<212> DNA
<213> Homo sapiens

<400> 848
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tgcaccttac attcctagag agcagaaata aaaagcatga ctatttccac catcaaatgc 120

tgtagaatgc ttggcactcc ctaaccaaat gctgtctcca taatgccact ggtgttaaga 180

tatattt 187

<210> 849
<211> 93
<212> DNA
<213> Homo sapiens

<400> 849
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gcagagcatg tcctagttca atgttgactt ttt 93

<210> 850
<211> 257
<212> DNA
<213> Homo sapiens

<400> 850
aaaagcttcc ccaactaaag cctagaagag cttctgaggc gctgctttgt caaaaggaag 60

tctctaggtt ctgagctctg gctttgcctt ggctttgcca gggctctgtg accaggaagg 120

aagtcagcat gcctctagag gcaaggaggg gaggaacact gcactcttaa gcttccgccg 180

tctcaacccc tcacaggagc ttactggcaa acatgaaaaa tcggcttacc attaaagttc 240

tcaatgcaac cataaaa 257

<210> 851
<211> 197
<212> DNA
<213> Homo sapiens

<400> 851
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aggcagcagg actgtcccct tgaaggagaa tcatcaggac cctggacctg atacggctcc 120

ccagtacacc ccacctcttc cttgtaaata tgatttatac ctaactgaat aaaaagctgt 180

tctgtcttcc cacccaa 197

<210> 852
<211> 151
<212> DNA
<213> Homo sapiens

<400> 852
ataaaaaacc aacaaaggat ctcacatttt cttaaaaagt gaagattgct gtatactatt 60

tattcaactt ataatttatg ttactccttg atctttgtct tttgtcatga caaagcattt 120

atttaataaa gttatgcatt cagttaaaaa a 151

<210> 853
<211> 273
<212> DNA
<213> Homo sapiens

<400> 853
tgtctgacct ccgtgcctag tcgtggctct ccatcttgtc tcctccccgt gtccccaatg 60

tcttcagtgg ggggccccct cttgggtccc ctcctctgcc atcacctgaa gacccccacg 120

ccaaacactg aatgtcacct gtgcctgccg cctcggtcca ccttgcggcc cgtgtttgac 180

tcaactcaac tcctttaacg ctaatatttc cggcaaaatc ccatgcttgg gttttgtctt 240

taaccttgta acgcttgcaa tcccaataaa gca 273

<210> 854
<211> 284
<212> DNA

<213> Homo sapiens

<400> 854
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gaaatgctct cctttccccc gcccccagac cttttatcca cttacctaga ttctacatat 120

tctttaaatt tcatctcagg cctccctcaa ccccaccact tcttttataa ctagtccttt 180

actaatccaa cccatgatga gctcctcttc ctggcttctt actgaaaggt taccctgtaa 240

catgcaattt tgcatttgaa taaagcctgc tttttaagtg ttaa 284

<210> 855
<211> 245
<212> DNA
<213> Homo sapiens

<400> 855
ggtgaaattc ttcaccaaca tttcatttgc tcctttgtca tattgtaatg ccaatataat 60

atagttaatg aaaacagcat ttttaaaaac cgaaatattg aaatggtgta atgttgtacc 120

atttgcactg tgagcaaatg ctaatacagt aaatatattg tgtttgctga caatcagccg 180

gcctataaat ctccttattt tatttcttgt ttttatagca taaagcttta gtttggcctg 240

aaaaa 245

<210> 856
<211> 268
<212> DNA
<213> Homo sapiens

<400> 856
attgccactc tgctccttgc tttgggagtc ttctgctttg ctggacatga gactggaagg 60

ctgtctgggg ctgccgacac acaagctctg ttgaggaatg accaggtcta tcagcccctc 120

cgagatcgag atgatgctca gtacagccac cttggaggaa actgggctcg gaacaagtga 180

acctgagact ggtggcttct agaagcagcc attaccaact gtaccttccc ttcttgctca 240

gccaataaat atatcctctt tcactcag 268

<210> 857
<211> 251
<212> DNA
<213> Homo sapiens

<400> 857
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tgctatgatt tgtacttgct tgagtcccat gactgtttct cttcctctct ttcttccttt 120

tggaatagta atatccatcc tatgtttgtc ccactattgt attttggaag cacataactt 180

gtttggtttc acaggttcac agttaagaag gaattttgcc tctgaataaa tagaatcttg 240

agtctcatgc a 251

<210> 858
<211> 32
<212> DNA

<213> Homo sapiens

<400> 858
ctcagcccaa cttcttaccc gaaagcatca ct 32

<210> 859
<211> 268
<212> DNA
<213> Homo sapiens

<400> 859
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gcacctcttc tggaaattga gtaaattttg ctttttttt tttactcagt tgcaacttac 120

gcttggcatc ttcagaatgc ttttctagca ttaagagatg taaatgataa aggaattatt 180

gtatgaaata ttacaaagcg tagactatgc attgttattc attataatat tttttgctgt 240

cataatcgcc tcataaagac aggtttca 268

<210> 860
<211> 259
<212> DNA
<213> Homo sapiens

<400> 860
cttggagata gctcttaaag atataaatgt ttatggctga aatgttatgg catcttggat 60

ttgctttaaa ataacccagc ttgctgcagg aggtgggtat tgtgtgtgtg ggaaggtggg 120

gaggctgcgg gaggaagaga tgacccaaga ttaggcagat gttgttaact gtggaagcag 180

ggtggtgagt gggggctcat gacattatgc tctctacttt gtgtacgtgt gaacatttcc 240

gtaataaaag atgccttca 259

<210> 861
<211> 166
<212> DNA
<213> Homo sapiens

<400> 861
gattttgcaa ttgtggtaaa tagcaaataa caatcttgta ttctaacata atctgcagtt 60

gtctgtatgt gttttaacta ttacagtgca tgttagggag aaattccctg aatttcttta 120

gttttgtatt caaacaatta tgccactcga tgcaacaaac ataata 166

<210> 862
<211> 158
<212> DNA
<213> Homo sapiens

<400> 862
aatctaacta actaactcat ttatttctat taaaaaggta ttgtccttta ggcggggaat 60

gggaatcctt gctgcactgt tgcagtcatt ctgaaaggac ctttccctgt acttaccttt 120

caacatgctt caatcttatc aacgctacat tttgtatt 158

<210> 863
<211> 88

<212> DNA
<213> Homo sapiens

<400> 863
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tctgaaagac tcagcctaat taaaggat 88

<210> 864
<211> 168
<212> DNA
<213> Homo sapiens

<400> 864
gcaatgttta gtatattcag ctgtatctgt agaaactctt tgacgaacct caatttaacc 60

aatttgatga atacccagtt ctcttctttt ctagagaaag atagttgcaa cctcacctcc 120

ctcactcaac actttgaata cttattgttt ggcaggtcat ccacacac 168

<210> 865
<211> 237
<212> DNA
<213> Homo sapiens

<400> 865
taagccacac agtgaatcct gtccttcaga gatggagagg tgataaaagt agaatgctca 60

ggtgtaattg gtttacggga attaaactgt tataaaaaca taaggtaaca ttcagaaatc 120

agagagcctc tgtttaaccc ttaaagacac aattaatgct tctaatactg taactactga 180

tctccctctt tctcctcagc tactctttcc ccaaacagta gcacctcctc tttactt 237

<210> 866
<211> 277
<212> DNA
<213> Homo sapiens

<400> 866
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atcttcattt ttcattttcc gggagatgta atatgtccta aaaatcacag tcgctagatt 120

gaaatcaacc ttaaaaatca tctagtccaa tgtctactcc cagtccacta cttgaatccc 180

ctgtgtcccc tcccagtagt cgtcttgaca acctccactg aaaggcaatt tctacactcc 240

atccacccca ccaccaaccc atggttcatg atctctt 277

<210> 867
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (55)..(63)
<223> n is a, c, g, or t

<400> 867
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nnngtgaaaa aaatgaagat aggcattttg tagacaatct ggaagttctg gaccggaatc 120

catgatgtag tcagggaaga aatgacccgt gtccagtaac cccaggcctc gagtgtgtgg 180

tgtatttttc tacataattg taatcattct atacatacaa attcatgtct tgaccatcat 240

attaatattt ggtaagtttc tctctcttta gagactccac 280

<210> 868
<211> 89
<212> DNA
<213> Homo sapiens

<400> 868
ggttgctatg cgaaagcaag actgtggttt cattccaatt tcctgtatat cggaatcatc 60

accatctgtg tatgtgtgat tgaggtgtt 89

<210> 869
<211> 274
<212> DNA
<213> Homo sapiens

<400> 869
cccttactta catactagct tccaaggaca ggtggaggta gggccagcct ggcgggagtg 60

gagaagccca gtctgtccta tgtaagggac aaagccaggt ctaatggtac tgggtagggg 120

gcactgccaa gacaataagc taggctactg ggtccagcta ctactttggt gggattcagg 180

tgagtctcca tgcacttcac atgttaccca gtgttcttgt tacttccaag gagaaccaag 240

aatggctctg tcacactcga agccaggttt gatc 274

<210> 870
<211> 135
<212> DNA
<213> Homo sapiens

<400> 870
tggtatttgc cgctgtgttt ttaaataact ttgtctatct gtcttgactt cttagctttg 60

gattttgaga actgacttcc cgccctggtt gaggattcag ctttcttact gtgccttcct 120

catgcacatg tgcct 135

<210> 871
<211> 221
<212> DNA
<213> Homo sapiens

<400> 871
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tataattcag aggttcaaaa tggaaatgac cttgctctaa tgaaactctg ttcccatcac 120

ataattgata ggcaatgttt ctcaccattt atatgatacg gactaaaaca aggaatggaa 180

ttgatattga acccttggca aaaataacat tcatccatag g 221

<210> 872
<211> 245
<212> DNA

<213> Homo sapiens

<400> 872
gctggtacca agctaagtag ttcttattgt tggagctgta taaaacactc tggctggact 60

tgcagttgat ggtggccctc tcgcccagag acacagccag ggagtctgga gactgggtca 120

tcacgatgtc cccgtaggca ccagagatcc agagcaacag agaaatgaag acctgggtct 180

gcaacaccat cttgctgccc ctgcctgcct gttgtagctc agttcacaat gcaaacggcc 240

cgttt 245

<210> 873
<211> 292
<212> DNA
<213> Homo sapiens

<400> 873
atttccattt acctcagatg cagccccagt gagccgatgc acccctgcca tcgtgcctgc 60

ccatctgctc cccatcaagc ccatctggat ccatttcctc ttagccacac taccctcact 120

acacccatgt ttacagttta agacttcttc ttacacaggt cttgccctcc atcctgttct 180

acctttcctc ctctcttgct ctctaccttg cgtcttccaa acatgaagcc ctcatcccag 240

cacccgacac cctgaccctc tccaaactct gggcatactc tctcccactg gg 292

<210> 874
<211> 292
<212> DNA
<213> Homo sapiens

<400> 874
tctggaagtg actatgcctg agtcccaggg tgcggcaggt aggaaacatt cacagatgaa 60

gacagcagat tccccacatt ctcatctttg gcctgttcaa tgaaaccatt gtttgcccat 120

ctcttcttag tggaacttta ggtctctttt caagtctcct cagtcatcaa tagttcctgg 180

ggaaaaacag agctggtaga cttgaagagg agcattgatg ttgggtggct tttgttcttt 240

cactgagaaa ttcggaatac atttgtctca cccctgatat tggttcctga tg 292

<210> 875
<211> 90
<212> DNA
<213> Homo sapiens

<400> 875
actgtaggaa caagcatgat cttgttactg tgatatttta aatatccaca gtactcactt 60

tttccaaatg atcctagtaa ttgcctagaa 90

<210> 876
<211> 75
<212> DNA
<213> Homo sapiens

<400> 876
ctttatgaga attctcaggc tgaactatag gccattgttc ccaggcaaat caatacatca 60

atgcatcctc aaaaa 75

<210> 877
<211> 208
<212> DNA
<213> Homo sapiens

<400> 877
tttccccatg tgctttagtg ggctttggtt ttctttttgt gcgagtgtgt gtgagaatgg 60

ctgtgtggtg agtgtgaact ttgttctgtg atcatagaaa gggtatttta ggctgcaggg 120

gagggcaggg ctggggaccg aaggggacaa gttccccttt catcctttgg tgctgagttt 180

tctgtaaccc ttggttgcca gagataaa 208

<210> 878
<211> 148
<212> DNA
<213> Homo sapiens

<400> 878
accagaattt atggatgaac tgattgctta tattttagtc agggtttata aatgtagatg 60

gtcaaattta cattgcctag tgatggaaaa ttcaactttt tttgattttt ttttccaata 120

ttaaaaaagg ctctgtatgc atggtggg 148

<210> 879
<211> 207
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (182)..(182)
<223> n is a, c, g, or t

<400> 879
ctgcaaaagc cgagatgggt tccatgcagt tctccagtgg gacatcagtg cttatccgaa 60

tgtcatcaat ggcaatctct ccggaacgtc ctttccctat cactccctcg aacacaatct 120

ggtactccat gtcgtagctg ggcaggatga tccgcccgtg cttccactcg ccgccctggt 180

cntcacggat gacccacagc aacttgc 207

<210> 880
<211> 233
<212> DNA
<213> Homo sapiens

<400> 880
ggtggtttgg cctctaattt aattctgatt cagactctcc tgtcaggact caagaaaatt 60

taattaatta ccaaggatta agtcttctgg ttaaggtttc tgggaaaaaa aaatagcaaa 120

gatgttgatt tcttggaatc cttttacagg ttcataacag aaaaatcttc attccctgta 180

ggcatttaat taaacctagt tgagaagtgt gtgggattcc tcaattatga aca 233

<210> 881
<211> 254

<212> DNA
<213> Homo sapiens

<400> 881
gaagcaatgt gccaaaggtc atgattctta tcacggatgg gaaatcatca gatgctttca 60

gagatcctgc gataaaactg aggaattcag atgttgaaat ctttgcagtt ggtgtgaagg 120

atgccgttcg ctcagaattg gaagctattg cctctcctcc tgcagagacc catgtgttca 180

cagtggaaga ttttgatgct tttcagagga tatcttttga actcacacag tctatctgcc 240

ttagaattga gcaa 254

<210> 882
<211> 244
<212> DNA
<213> Homo sapiens

<400> 882
aatgcccttа atgtgagggt ttgtaatggt gcttattaag accaaagact tgttaaatgt 60

atacaccaag tggtaatgaa atttcgtgac tggcccacac gtgcatagag gtctgggagg 120

accaggaaac agcctcagtg gccagaggat caccagtgca tccttcatca cagcatgtgc 180

aatatgccaa gattaccctc ggtcattcct gtcaacaagg ggtcaatgtc ataaatgtca 240

caat 244

<210> 883
<211> 291
<212> DNA
<213> Homo sapiens

<400> 883
gaagcatagc acctttcagt atctaaaata taaacaagaa tagtaagtcc atcccagctt 60

ctagagatga ggtagctcat gctaagaaat gttgggtcat ttttcctatg aaagttcaaa 120

ggccaaatgg tctaattcca atcatcacat ttgattagag tcagctccac aactcagttt 180

ctagatcttt ttcttcatta taggcttcag gatgatgaga ttgtacatgt ggaagagtct 240

caatttagag tccttggaca tatgtttgta aagttctata tgtcacctcg t 291

<210> 884
<211> 191
<212> DNA
<213> Homo sapiens

<400> 884
caaacagagt gaactttctg ccaagatgcg ggagtggttt tcagagacat ttcagaaagt 60

gaaggagaaa ctcaagattg actcatgagg acctgaaggg tgacatccca ggaggggcct 120

ctgaaatttc ccacacccca gcgcctgtgc tgaggactcc ctccatgtgg ccccaggtgc 180

caccaataaa a 191

<210> 885
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (194)..(206)
<223> n is a, c, g, or t

<400> 885
aagatggcta gaatggtgcc tttctgagtg tctaaaactt gacacccctg gtaaatcttt 60

caacacactt ccactgcctg cgtaatgaag ttttgattca tttttaacca ctggaatttt 120

tcaatgccgt cattttcagt tagatgattt tgcactttga gattaaaatg ccatgtctat 180

ttgattagtc ttannnnnnn nnnnnnacag gcttatcatt ctcactgttg gctgtcat 238

<210> 886
<211> 188
<212> DNA
<213> Homo sapiens

<400> 886
gcacaccaga ttcagggaga ctgaccacca agggatagtg taaaaggaca ttttctcagt 60

tgggtccatc agcagttttt cttcctgcat ttattgttga aaactattgt ttcatttctt 120

cttttatagg ccttattact gcttaatcca aatgtgtacc attggtgaga cacatacaat 180

gctctgaa 188

<210> 887
<211> 191
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (38)..(51)
<223> n is a, c, g, or t

<400> 887
gaggtgtcaa acagcagagt gtactttcca aagaacannn nnnnnnnnnn nacacagcaa 60

atcccaagcc ttcccagtct cacacctttc cacccattca taaaaaaaca cacgaatttc 120

tcgcaagttc caatatcact gtctctttat catctaaata gggccagttg gacacctcat 180

tgaaacaaaa a 191

<210> 888
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (114)..(145)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (219)..(232)
<223> n is a, c, g, or t

<400> 888
tatatttcca tgtctgctgt aatgtatcca agtcttgtaa agaccaataa tttattaatt 60

ttaataagac agaaagtatt tctccttcta gtctcatcgt ctgatttgaa aggnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnngtgag ttccaggaag aaatgttttt ctttttcat 180

ataaaatggt agctgtatgt atgtaactct gaattaaann nnnnnnnnnn nncagtcact 240

ctggttctaa atccttattg ggcaagctgg agttttgaag tgacccaa 288

<210> 889
<211> 189
<212> DNA
<213> Homo sapiens

<400> 889
accacacaag cagtgactcc taaagaagtt cagaggaagg agagaaccca tggggagggg 60

gtgcagtggg ggtgggtcag ggtgggctcc ctggagggga aattggtcta ggcaaggatg 120

cagactggcc agtaaggtgg gtccatgcag gaagctgagg gaggtggaag gcccgtgggt 180

ctcgagcgc 189

<210> 890
<211> 269
<212> DNA
<213> Homo sapiens

<400> 890
ttccttcttg gcctaactct tccagttagg atctagaact ttgccttttt ttttttttt 60

tttttttga gatgggttct cactatattg tccaggctag agtgcagtgg ctattcacag 120

atgcgaacat agtacactgc agcctccaac tcctagcctc aagtgatcct cctgtctcaa 180

cctcccaagt aggattacaa gcatgcgccg acgatgccca gaatccagaa ctttgtctat 240

cactctcccc aacaacctag atgtgaaaa 269

<210> 891
<211> 183
<212> DNA
<213> Homo sapiens

<400> 891
gagagttcaa ctaagaaagg tcacatatgt gaaagcccaa ggacactgtt tgatatacag 60

caggtattca atcagtgtta tttgaaacca aatctgaatt tgaagtttga atcttctgag 120

ttggaatgaa tttttttcta gctgagggaa actgtatttt tctttcccca aagaggaatg 180

taa 183

<210> 892
<211> 187
<212> DNA
<213> Homo sapiens

<400> 892
ccttcatgct gccttcaaag ctagatcatg tttgccttgc ttagagaatt actgcaaatc 60

agccccagtg cttggcgatg catttacaga tttctaggcc ctcagggttt tgtagagtgt 120

gagccctggt gggcagggtt gggggggtctg tcttctgctg gatgctgctt gtaatccatt 180

tggtgta 187

<210> 893
<211> 183
<212> DNA
<213> Homo sapiens

<400> 893
ttctgtgtct gaagtgtaag tgaacacaga agagtgacat gtttacaaac ctcaagccag 60

ccttgctcct ggctggggcc tgttgaagat gcttgtattt tacttttcca ttgtaattgc 120

tatcgccatc acagctgaac ttgttgagat ccccgtgtta ctgcctatca gcattttact 180

act 183

<210> 894
<211> 272
<212> DNA
<213> Homo sapiens

<400> 894
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ctagatcagt aaataaaatt gatgtaatat aatttataag taacactgtt gaaaccctga 120

tcccagtgga ggctgtaacc cacctgcccc cgcaccaccc ccctgacccc tgttaccgca 180

tttgtgtgta ttaatgctga agaattaaat gtttaaagag tttaaatttt gaaggcgttt 240

gctatataca gttgtcctgc attattataa ag 272

<210> 895
<211> 224
<212> DNA
<213> Homo sapiens

<400> 895
aggccattct gagccacact gaaaaggaaa atgggaattt ataacccagt gagttcagcc 60

tttaagatac cttgatgaag acctggacta ttgaatggag cagaaattca cctctctcac 120

tgactattac agttgcattt ttatggagtt cttcttctcc taggattcct aagactgctg 180

ctgaatttat aaaaattaag tttgtgaatg tgactactta gtgg 224

<210> 896
<211> 191
<212> DNA
<213> Homo sapiens

<400> 896
caaacagagt gaactttctg ccaagatgcg ggagtggttt tcagagacat ttcagaaagt 60

gaaggagaaa ctcaagattg actcatgagg acctgaaggg tgacatccca ggaggggcct 120

ctgaaatttc ccacacccca gcgcctgtgc tgaggactcc ctccatgtgg ccccaggtgc 180

caccaataaa a 191

<210> 897
<211> 217
<212> DNA
<213> Homo sapiens

<400> 897
aggttagatt ctcattcacg ggactagtta gctttaagca ccctagagga ctagggtaat 60

ctgacttctc acttcctaag ttcccttcta tatcctcaag gtagaaatgt ctatgttttc 120

tactccaatt cataaatcta ttcataagtc tttggtacaa gtttacatga taaaaagaaa 180

tgtgatttgt cttcccttct ttgcactttt gaaataa 217

<210> 898
<211> 174
<212> DNA
<213> Homo sapiens

<400> 898
tccccagagt tcttgcaccc tcattccctc gggaccctcc cagtgagaag ggcctgctct 60

gcttttcctg tctgtatata acttatttgc cctaagaact ttgagaatcc caattattta 120

ttttaatgta ttttttagac cctctattta cctgcgaact tgtgtttata ataa 174

<210> 899
<211> 269
<212> DNA
<213> Homo sapiens

<400> 899
ttccttcttg gcctaactct tccagttagg atctagaact ttgccttttt ttttttttt 60

tttttttga gatgggttct cactatattg tccaggctag agtgcagtgg ctattcacag 120

atgcgaacat agtacactgc agcctccaac tcctagcctc aagtgatcct cctgtctcaa 180

cctcccaagt aggattacaa gcatgcgccg acgatgccca gaatccagaa ctttgtctat 240

cactctcccc aacaacctag atgtgaaaa 269

<210> 900
<211> 231
<212> DNA
<213> Homo sapiens

<400> 900
aaaacttggc acttttcgt gtggatcttg ccacatttct gatcagaggt gtacactaac 60

atttcccccg agctcttggc ctttgcattt atttatacag tgccttgctc ggggcccacc 120

acccccctcaa gcccccagcag ccctcaacag gcccagggag ggaagtgtga gcgccttggt 180

atgacttaaa attggaaatg tcatctaacc attaagtcat gtgtgaacac a 231

<210> 901
<211> 186
<212> DNA
<213> Homo sapiens

<400> 901
taggtggtag atattgaggc caagaatatt gcaaaataca tgaagcttca tgcacttaaa 60

gaagtatttt tagaataaga atttgcatac ttacctagtg aaacttttct agaattattt 120

ttcactctaa gtcatgtatg tttctctttg attatttgca tgttatgttt aataagctac 180

tagcaa 186

<210> 902
<211> 159
<212> DNA
<213> Homo sapiens

<400> 902
caccctcaga tgcacatgag ctggcgggat tgaaggatgc tgtcttcgta ctgggaaagg 60

gattttcagc cctcagaatc gctccacctt gcagctctcc ccttctctgt attcctagaa 120

actgacacat gctgaacatc acagcttatt tcctcattt 159

<210> 903
<211> 295
<212> DNA
<213> Homo sapiens

<400> 903
aggatccatc ctattgtcaa tgagatgttc tcatccagaa gccatagaat cctgaataat 60

aattctaaaa gaaacttcta gagatcatct ggcaatcgct ttaaaagact cggctcaccg 120

tgagaaagag tcactcacat ccattcttcc cttgatggtc cctattcctc cttcccttgc 180

ttcttggact tcttgaaatc aatcaagact gcaaaccctt tcataaagtc ttgccttgct 240

gaactccctc tctgcaggca gcctgccttt aaaaatagtt gctgtcatcc acttt 295

<210> 904
<211> 175
<212> DNA
<213> Homo sapiens

<400> 904
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ctcagtttca ctttcacata gatgtccctt tcttggccag ttatcccttc cttttagcct 120

agttcatcca atcctcactg ggtggggtga ggaccactcc tgtacactga atatt 175

<210> 905
<211> 228
<212> DNA
<213> Homo sapiens

<400> 905
gttgtggggt caaccgtaca atggtgtggg agtgacgatg atgtgaatat ttagaatgta 60

ccatattttt tgtaaattat ttatgttttt ctaaacaaat ttatcgtata ggttgatgaa 120

acgtcatgtg ttttgccaaa gactgtaaat atttatttat gtgttcacat ggtcaaaatt 180

tcaccactga aaccctgcac ttagctagaa cctcattttt aaagatta 228

<210> 906
<211> 293

<212> DNA
<213> Homo sapiens

<400> 906
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ttgctctttg actgtcagca agactgaaga tggcttttcc tggacagcta gaaaacacaa 120

aatcttgtag gtcattgcac ctatctcagc cataggtgca gtttgcttct acatgatgct 180

aaaggctgcg aatgggatcc tgatggaact aaggactcca atgtcgaact cttctttgct 240

gcattccttt ttcttcactt acaagaaagg cctgaatgga ggacttttct gta 293

<210> 907
<211> 137
<212> DNA
<213> Homo sapiens

<400> 907
gtcagacaga tgtggttgca tcctaactcc atgtctctga gcattagatt tctcatttgc 60

caataataat acctccctta gaagtttgtt gtgaggatta ataatgtaa ataaagaact 120

agcataacac tcaaaaa 137

<210> 908
<211> 267
<212> DNA
<213> Homo sapiens

<400> 908
gccttctggc tgacaatcct ggaaatctgt tctccagaat ccaggccaaa aagttcacag 60

tcaaatgggg aggggtattc ttcatgcagg agaccccagg ccctggaggc tgcaacatac 120

ctcaatcctg tcccaggccg gatcctcctg aagccctttt cgcagcactg ctatcctcca 180

aagccattgt aaatgtgtgt acagtgtgta taaaccttct tcttcttttt ttttttttaa 240

actgaggatt gtcattaaac acagttg 267

<210> 909
<211> 254
<212> DNA
<213> Homo sapiens

<400> 909
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atccagcata ttcataacta gagccatatc acagatgcat tcatcataat aattccagac 120

attttcatca ccctaaaagg aaaccctgaa acccattagc agtcattccc cattcctcca 180

acccattctc tccctaatcc ctagaaacca ccaatctgct gtgtatttca tctattgcca 240

acatttcata taaa 254

<210> 910
<211> 162
<212> DNA
<213> Homo sapiens

<400> 910

tacgttatgt atttgacaag tggtggtgaa acaaaatcaa aacagatttg atttgtgttt 60

ttgaaatgtc agtacatttt gtgccactaa cactgtgatg tataaaagag ctgtttgaat 120

gccttttaat gttgtgtttt gtactctgga atcatatgga aa 162

<210> 911
<211> 254
<212> DNA
<213> Homo sapiens

<400> 911
aaagattaaa ttgctattgc tgtagtaaga gaagctcttt gtatctgaac atagttgtat 60

ttgaaatttg tggtttttta atttatttaa aattgggggg agggcatggg aaggatttaa 120

caccgatata ttgttaccgc tgaaaatgaa ctttatgaac cttttccaag ttgatctatc 180

cagtgacgtg gcctggtggg cgtttcttct tgtacttatg tggtttttg gctttaata 240

cagacatttt cctc 254

<210> 912
<211> 83
<212> DNA
<213> Homo sapiens

<400> 912
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aacaatccag tgcttaagag tca 83

<210> 913
<211> 296
<212> DNA
<213> Homo sapiens

<400> 913
gccacaagag aagagctcta gtcctggact ctaccctcct ctgaaagaag ctggggcttg 60

ctctgacggt ctccactccc gtctgcaggc agccaggagg gcaggaagcc cttgctctgt 120

gctgccatcc tgcctccctc ctccagcctc agggcactcg ggcctgggtg ggagtcaacg 180

ccttcccctc tggactcaaa taaaacccag tgacctcact tcttttctct gcaaaaggtg 240

cttgtggggc tgggagtgca gacattggtg tttctgctga tgtcccttgt gaaaaa 296

<210> 914
<211> 244
<212> DNA
<213> Homo sapiens

<400> 914
atttacctat atagcaagcc tacacatgtg cccctgaacc taaaaaaaaa gttaaaagaa 60

aaacgtttgg attattttcc ctctttcgaa caaagacatt ggtttgccca aggactacaa 120

ataaaccaac gggaaaaaag aaaggttcca gttttgtctg aaaattctga ttaagcctct 180

gggccctaca gcctggagaa cctggagaat cctacaccca cagaacccgg ctttgtcccc 240

aaag 244

<210> 915
<211> 253
<212> DNA
<213> Homo sapiens

<400> 915
gaaacaagat tagtcctgag ttaacaatgg ctgcaagctg gatacatgga attcagcaca 60

cttttctccc tcttactgat tatgcttttg aaattttctc ttgtaaaaca tttagaaaac 120

aaaaacaaaa aaaatgtgat ttgtttctgt cttcaaaatc tcattagaat tttttcactg 180

gaggaagatt ttcccttgct tctgcataaa attttaactc cataacttat aagctcactc 240

tttattgtta ctt 253

<210> 916
<211> 74
<212> DNA
<213> Homo sapiens

<400> 916
aaaaatttaa ctcccatatg tgttcctctt gttcctaatc ttgtcaaccc agtgcaagtg 60

accgacaaaa ttcc 74

<210> 917
<211> 294
<212> DNA
<213> Homo sapiens

<400> 917
actccacagt ttccattgtg aatggcttct ttggtgcaga gttccaaaaa ttatgtagcc 60

cagctcttta attttgtaac atctaatgat atcaccgcct tgaagtgatt aaagtagatt 120

gcttaaagaa ttaaagcttt aaagatgaaa gatgttattg cttttgctgg acatgaggaa 180

cagttgtaaa gtttccaggt ctacaataac tttctggaac cctctcagtg aactgtttct 240

tgtaaaagtt ttccctaaga taaaagctca atcccattgt ttccacactc aaaa 294

<210> 918
<211> 153
<212> DNA
<213> Homo sapiens

<400> 918
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acgtgcagtt tcatttcttt tgagagtggg attgctggag cctatgttaa gggtacgttc 120

aactcatcag ctcaactgtc ttccaaatgg cag 153

<210> 919
<211> 266
<212> DNA
<213> Homo sapiens

<400> 919
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atcacagaag attaaaattc agaaaggaga aaacacagac caaagagaag tatctaagac 120

caaagggatg tgttttatta atgtctagga tgaagaaatg catagaacat tgtagtactt 180

gtaaataact agaaataaca tgatttagtc ataattgtga aaaataataa taatttttct 240

tggatttatg ttctgtatct gtgaaa 266

<210> 920
<211> 202
<212> DNA
<213> Homo sapiens

<400> 920
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gagaagatac catttgatcc agcagaaatg tccaaatgat atcaggtcct caatcttcag 120

ctacagggaa tgagtaactt tgagtggaga agaaacaaac atagtgggta taatcatgga 180

tcgcttgtac ccctgtgaaa at 202

<210> 921
<211> 208
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (124)..(124)
<223> n is a, c, g, or t

<400> 921
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ggtttattgt tgggactatt ctttaaaata tccattgttc actacagtga agatctctga 120

tttnaccgtg tactatccac atgcattaca aacatttcgc agagctgctt agtatataag 180

cgtacaatgt atgtaataac catctcat 208

<210> 922
<211> 150
<212> DNA
<213> Homo sapiens

<400> 922
gctgataaat agcattaggg ttctttgcaa tgtggtatct agctgtatta ttggttttat 60

ttactttaaa cattttgaaa agcttatact ggcagcctag aaaaacaaac aattaatgta 120

tctttatgtc cctggcacat gaataaactt 150

<210> 923
<211> 97
<212> DNA
<213> Homo sapiens

<400> 923
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gtaccataaa tatttcctgt atctgactgc ctgaaca 97

<210> 924
<211> 237
<212> DNA
<213> Homo sapiens

<400> 924
agcaagactt gctgcctaaa ggagcccacc attttacttt tcacatttaa tctgccacgt 60

tgaatcaatt ggaataaaac ctgactcgca ggtgactgga caggaaatcc caaagttcca 120

ccatttctat gcttaatttt aacgtccccc cgctttttt tttgtagaaa ataaaaacaa 180

gaaaatcgtt ccaatgtaag atgtttgtta tagaaacttt aggcaataca ggtgtgt 237

<210> 925
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (54)..(55)
<223> n is a, c, g, or t

<400> 925
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tttttgtgtg aatatttaat ggtgctccat gactgttgag ttttaaaaac ctcgttaaat 120

tttgccaaat cagttgcccc caaaagggaa tatgcttttc cttatttttt tttctaaaat 180

gctatttatc tctaaggaaa aaaaaaaaag actattactc atttaacatt gtttaagcag 240

gttgagctag ctgtgaaaat agcttttgtg agccttctaa ttcctaaacg tc 292

<210> 926
<211> 243
<212> DNA
<213> Homo sapiens

<400> 926
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tttcactatt gtcttctgaa atttgggtct gatggccagt attgactttt agaggcttaa 120

ataggagttt ggtaaagatt ggtaaatgag ggcatttaag atttgccatg ggttgcaaaa 180

gttaaactca gcttcaaaaa tggatttgga gaaaaaaaga ttaaattgct ctaaactgaa 240

tga 243

<210> 927
<211> 120
<212> DNA
<213> Homo sapiens

<400> 927
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tgtacagttc tatactgtta tctgtgtcca tttccaaaac ttgcacgtgt ccctgaattc 120

<210> 928
<211> 185

<212> DNA
<213> Homo sapiens

<400> 928
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gaattagagg acagtggcct accctaaata aagacatgag tgatgtataa agtctagtgt 120

caatttattc agaaaatatc aaaattattc tgggagctat gggtcaaagt tgataggcac 180

aaaca 185

<210> 929
<211> 130
<212> DNA
<213> Homo sapiens

<400> 929
atcccaatag atatcccccc atgtgcatgc acacctgcac actcacggct gaaatctccc 60

taacccaggg ggaccttagc atgcctaagt gactaaacca ataaaaatgt tctggtctgg 120

cctgaaaaaa 130

<210> 930
<211> 86
<212> DNA
<213> Homo sapiens

<400> 930
aagcagacta cgagaaacac aaagtctacg cctgcgaagt cacccatcag ggcctgagct 60

cgcccgtcac aaagagcttc aacagg 86

<210> 931
<211> 264
<212> DNA
<213> Homo sapiens

<400> 931
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gaggaacaat aattcggatg tttctcttca caatgtcctc attaggatct tcggaagaac 120

ggatgatcct ggaagtaatc cgggcacact tacatttgtt gtcaacaaga acaatccttt 180

catcttcttg ggctttcaca tgaacagcct taataaaaac cgccaggact ccccagaaaa 240

gcaaatggtt cttcatcttg accc 264

<210> 932
<211> 101
<212> DNA
<213> Homo sapiens

<400> 932
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gtctagtgct caaaacttgc agctagaatt gagggaagag a 101

<210> 933
<211> 233
<212> DNA

<213> Homo sapiens

<400> 933
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atgaagacag agccccaccc tcagatgcac atgagctggc gggattgaaa gatgctgtct 120

tcgtactggg aaagggattt tcagccctca gaatcgctcc accttgcagc tctccccttc 180

tctgtattcc tagaaactga cacatgctga acatcacagc ttatttcctc att 233

<210> 934
<211> 256
<212> DNA
<213> Homo sapiens

<400> 934
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cccatcttcc aagggtataa ggaatctttc tgctttgggg tttatcagaa ttctcagaat 120

ctcaaataac taaaaggtat gcaatcaaat ctgcttttta aagaatgctc tttacttcat 180

ggacttccac tgccatcctc ccaaggggcc caaattcttt cagtggctac ctacatacaa 240

ttccaaacac atacag 256

<210> 935
<211> 259
<212> DNA
<213> Homo sapiens

<400> 935
acagaagcca ttgcctccct tgtttacctt gggtccacct ccaccaaaac ccaacagacc 60

accaaatgtt gacctgacga aattccacaa aaccctcttct ggaaacagta ctagcaaagg 120

ccagacgtct tactcaacaa cttccctgcc accacctcca ccatcccatc cggccagcca 180

accaccattg ccagcatctc acccatcaca accaccagtc ccaagcctac ctcccagaaa 240

cattaaacct ccgtttgac 259

<210> 936
<211> 114
<212> DNA
<213> Homo sapiens

<400> 936
ggacctgtac accacgagca gccagctgac cctgccggcc acacagtgcc tagccggcaa 60

gtccgtgaca tgccacgtga agcactacac gaatcccagc caggatgtga ctgt 114

<210> 937
<211> 265
<212> DNA
<213> Homo sapiens

<400> 937
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attattaaaa acaccaccaa agaaaataaa tatatcctac ttgaaattta ctctatggac 120

ttacccactg ctagaataaa tgtatcaaat cttatttgta aattctcaat tttgatatat 180

atatgtatat atgcatatac atatccacac ttgtctgcaa gaatattgat taaaattgct 240

aaatttgtac ttgttcacca gaaaa 265

<210> 938
<211> 198
<212> DNA
<213> Homo sapiens

<400> 938
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gcccagagga ctgttaataa cgatgatcca tgtgttttac tctaaagtgc taaatatggg 120

agtttccttt ttttactctt tgtcactgat gacacaacag aaaagaaact gtagaccttg 180

ggacaatcaa catttaaa 198

<210> 939
<211> 162
<212> DNA
<213> Homo sapiens

<400> 939
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tctcttagga atacagtttc tagcattaaa caaataaaca aggggagaaa ataaaactca 120

aggagtgaaa atcaggaggt gtaataaaat gttcctcgca tt 162

<210> 940
<211> 256
<212> DNA
<213> Homo sapiens

<400> 940
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cgccctgttt ctctcaggaa gccttgctct tttccatcat gcctctaatc acagcttata 120

atcggatatt tatttctgtg tctacagtct tgccctgcca gactgtatgc cccatgtggg 180

caggcgctca tgattgtttc tgattgtttc acgcatgctg ctaacccaga gcctgggccc 240

aaagctagtt agtact 256

<210> 941
<211> 294
<212> DNA
<213> Homo sapiens

<400> 941
caaagggtga gagggcttcc ttctcaccct tctctccata agtatcttga agatccatgg 60

tttgttttgc tctattgttt agtttttact tgggtgcaat gtgtacgtca aaagttttta 120

ttttgatatt tgaaagagac caaatcaggc ccagaccgcc tctctggaag gtgttgtagg 180

ccattcaaaa cgcctccgga gtgtcgcaaa ccaagtgcgg aggggccctg aggttgtact 240

gtaaacatca tagtgacttg tcttttcaaa tatattccca ctattttcgc agaa 294

<210> 942
<211> 221
<212> DNA
<213> Homo sapiens

<400> 942
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ggcagcaggg gaacatcttc tcatgctccg tgatgcatga ggctctgcac aaccgcttca 120

cgcagaagag cctctccctg tctccgggta aatgagtgcg acggccggca agccccgct 180

ccccgggctc tcggggtcgc gcgaggatgc ttggcacgta c 221

<210> 943
<211> 239
<212> DNA
<213> Homo sapiens

<400> 943
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ctctgacttt gctgtttcca gtggtatgac cttggagaag tcacttatcc tcttggagcc 120

tcagtttcct catctgcaga ataatgactg acttgtctaa ttcgtaggga tgtgaggttc 180

tgctgaggaa atgggtatga atgtgccttg aacacaaagc tctgtcaata agtgataca 239

<210> 944
<211> 181
<212> DNA
<213> Homo sapiens

<400> 944
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gataaatcaa gtgattggtg tgcctgggtc tcactacaag cagcctatct gcttaagaga 120

ctctggagtt tcttatgtgc cctggtggac acttgcccac catcctgtga gtaaaagtga 180

a 181

<210> 945
<211> 228
<212> DNA
<213> Homo sapiens

<400> 945
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tcaggggcgg ggagggtgac agtggccgcc caaggcccac gagcttgttc tttgttcttt 120

gtcacaggga ctgaaaacct ctcctcatgt tctgctttcg attcgttaag agagcaacat 180

tttacccaca cacagataaa gttttccctt gaggaaacaa cagcttta 228

<210> 946
<211> 136
<212> DNA
<213> Homo sapiens

<400> 946
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acgtctgcta acttggagcc ccagtgccaa gcacagtgcc tgcatgtatt tatccaataa 120

atgtgaaatt ctgtcc 136

<210> 947
<211> 193
<212> DNA
<213> Homo sapiens

<400> 947
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aaaaaaatcc cccagcactt cccacagtgc ctattgatac ttggggaggg tgcttggcac 120

ttattgaata tatgatcggc catcaaggga agaactattg tgctcagaga cactgttgat 180

aaaaactcag gca 193

<210> 948
<211> 175
<212> DNA
<213> Homo sapiens

<400> 948
aaatttaatt ttctacgcct ctggggatat ctgctcagcc aatggaaaat ctgggttcaa 60

ccagcccctg ccatttctta agactttctg ctgcactcac aggatcctga gctgcactta 120

cctgtgagag tcttcaaact tttaaacctt gccagtcagg acttttgcta ttgca 175

<210> 949
<211> 183
<212> DNA
<213> Homo sapiens

<400> 949
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gtttccaaaa aatggtactc cacatacttc agtgagggta agtattttcc tgttgtcaag 120

aatagcattg taaaagcatt ttgtaataat aaagaatagc tttaatgata tgcttgtaac 180

taa 183

<210> 950
<211> 235
<212> DNA
<213> Homo sapiens

<400> 950
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gcccatcaaa tcctgagtgt cagtttgttg tccctattgt agatgaaata gtgatgtagc 120

aaaaacctag taaattctga atgcttttcc acgtagactt atctggaatg tgaacacaac 180

tctttggtta atagtaaatg cttaactgta gtcctgagta ggtgcatttc tgtct 235

<210> 951
<211> 154
<212> DNA
<213> Homo sapiens

<400> 951
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accttcatca ctattcttag gataatgctg gcgggcagag atgatcaatc atcatattaa 120

atcataatga gcttataatc ctcccactgg aaaa 154

<210> 952
<211> 280
<212> DNA
<213> Homo sapiens

<400> 952
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gcatggggtg ttggcagggg tcaaaaagct tatttctttt aatctcttac tcaacgaaca 120

catcttctga tgatttccca aaattaatga gaatgagatg agtagagtaa gatttgggtg 180

ggatgggtag gatgaagtat attgcccaac tctatgtttc tttgattcta acacaattaa 240

ttaagtgaca tgatttttac taatgtatta ctgagactag 280

<210> 953
<211> 206
<212> DNA
<213> Homo sapiens

<400> 953
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ataaaattat tgtatagaca tctgcttctt aaacagattg tgagttcttt gagaaacagc 120

gtggatttta cttatctgtg tattcacaga gcttagcaca gtgcctggta atgagcaagc 180

atacttgcca ttacttttcc ttccca 206

<210> 954
<211> 247
<212> DNA
<213> Homo sapiens

<400> 954
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tagactgtgt gcgtgtgcgt tgatgggcac tcaagagtcc cgtgagtcat ccagccctgc 120

ctttcccctg cgcccccatc ctctcacgtc ccgccctgcc tccacttggg gaccctgcct 180

cgtgtcgtct ttatctgcct attactcagc ctaaggaaac aagtacactc cacacatgca 240

taaagga 247

<210> 955
<211> 190
<212> DNA
<213> Homo sapiens

<400> 955
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cttgagtgtg ttacctcctt tccaagctcc tcgtgataat gcagacttcc tggagtacaa 120

acacaggatt tgtaattcct tactgtaacg gagtttagag ccagggctga tgctttggtg 180

tggccagcac 190

<210> 956
<211> 165
<212> DNA
<213> Homo sapiens

<400> 956
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ttatctctcc atgggaagct aagttataaa aataggtgct tggtgtacaa aacttttat 120

atcaaaaggc tttgccattt ctatatgagt gggtttactg gtaaa 165

<210> 957
<211> 260
<212> DNA
<213> Homo sapiens

<400> 957
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ctggaggggg aagagctctc aacccagagg gatctgacca ggaaggttca ccccccctcc 120

acccaggaag cccctgcaga cagtatgtgt tttaggcttt gctggccaaa tggtctctgc 180

cgtgactact cagctctgcc attgtggctg cagagtgacc atagaccttc tgaaagtgaa 240

tgagtatgac tgtgttccaa 260

<210> 958
<211> 197
<212> DNA
<213> Homo sapiens

<400> 958
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atgtttattc cctgtcagcg gagtggagaa tgtcattcat caataaacca aagccaatag 120

ctggagaatt gagatctggt tgaaagtggt ttatggttta catgctgtac tatcctgagg 180

aattgcgaga tattgct 197

<210> 959
<211> 187
<212> DNA
<213> Homo sapiens

<400> 959
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tggacttaag aataaacctt gtgtttaatc tctttttttc cttaaaattt taatgtgagt 120

tttctgttac gcaaattatc catgttagca catttggaac aaatgtataa atgtactttc 180

tgaataa 187

<210> 960
<211> 228
<212> DNA
<213> Homo sapiens

<400> 960
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tcaggggcgg ggagggtgac agtggccgcc caaggcccac gagcttgttc tttgttcttt 120

gtcacaggga ctgaaaacct ctcctcatgt tctgctttcg attcgttaag agagcaacat 180

tttacccaca cacagataaa gttttccctt gaggaaacaa cagcttta 228

<210> 961
<211> 213
<212> DNA
<213> Homo sapiens

<400> 961
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tgcgaggttc tactagctcc ctgcccctcg ccctgcagag aagagaacca tgccagggga 120

gaaggcaccc agccatcctg acccagcgag gagccaacta tcccaaatat acctggggtg 180

aaatatacca aattctgcat ctccagagga aaa 213

<210> 962
<211> 104
<212> DNA
<213> Homo sapiens

<400> 962
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cgtgtcttcc actttgcata tgagccgtga actgtgcata gtgc 104

<210> 963
<211> 132
<212> DNA
<213> Homo sapiens

<400> 963
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gctctattca atacttctcc tctcagatga tagtaaagat caaaagaatt cgaagggagt 120

tggtaaacgc tg 132

<210> 964
<211> 281
<212> DNA
<213> Homo sapiens

<400> 964
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gaatgttgtg ctgagctgtg cagcctgttc ctgcatctgt tgttcctgca ttttctgttg 120

ctctgccagc caattttgtt tggctatctc catttaactc acttgttcct gatggagtct 180

ctccctctcc tgcatcattt gctcgttctg cctttgaatc gccgccaacc tttgcgcttc 240

agcctttca gcttctgctt tcacttgtgc ctctgaggag a 281

<210> 965

<211> 239
<212> DNA
<213> Homo sapiens

<400> 965
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actcttcttc cctctaaact gccccacctc ctaacctaat ccccccgccc cgctgccttt 120

cccaggctcc cctcacccca gcgggtaatg agcccttaat cgctgcctct aggggagctg 180

attgtagcag cctcgttagt gtcacccccc cctccctgat ctgtcagggc cacttagtg 239

<210> 966
<211> 174
<212> DNA
<213> Homo sapiens

<400> 966
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cacctcaccc cactgtggct gatttggaat tttgtgcccc catgtaagca ccccttcatt 120

tggcattccc cacttgagaa ttacccttttt gccccgaaca tgtttttctt ctcc 174

<210> 967
<211> 270
<212> DNA
<213> Homo sapiens

<400> 967
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gaaacagact gcctgaattg agaattttga tttcttaaag tgtgtttctt tctaaattgc 120

tgttccttaa tttgattaat ttaattcatg tattatgatt aaatctgagg cagatgagct 180

tacaagtatt gaaataatta ctaattaatc acaaatgtga agttatgcat gatgtaaaaa 240

atacaaacat tctaattaaa ggctttgcaa 270

<210> 968
<211> 276
<212> DNA
<213> Homo sapiens

<400> 968
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ctttattgtg gcatctgttc gaggtttgct tcctctttaa gtctgtttct tcattagcaa 120

tcatatcagt tttaatgcta ctactaacaa tgaacagtaa caataatatc cccctcaatt 180

aatagagtgc tttctatgtg caaggcactt ttcacgtgtc acctatttta acctttccaa 240

ccacataaat aaaaaaggcc attattagtt gaatct 276

<210> 969
<211> 264
<212> DNA
<213> Homo sapiens

<400> 969
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gcccatcaaa tcctgagtgt cagtttgttg tccctattgt agatgaaata gtgatgtagc 120

aaaaacctag taaattctga atgcttttcc acgtagactt atctggaatg tgaacacaac 180

tctttggtta atagtaaatg cttaactgta gtcctgagta ggtgcatttc tgtctgtctc 240

aataaatttt actttgtctg caaa 264

<210> 970
<211> 275
<212> DNA
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SEQUENCE LISTING

<110> Almac Diagnostics Limited
Harkin, Dennis Paul
McDyer, Fionnuala
Wilson, Claire
O'Brien, Eamonn J.
Michie, Caroline
Gourley, Charlie
Hill, Lauren A.
Keating, Katherine E.
O'Donnell, Jude
Bylesjo, Max
Deharo, Steve
Proutski, Vitali
Kennedy, Richard
Davison, Timothy
Winter, Andreas
McCavigan, Andrena

<120> Molecular Diagnostic Test for Cancer

<130> ADL-0801WP

<140> PCT/US2012/040805
<141> 2012-05-04

<150> US 61/492,488
<151> 2011-06-02

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ccctcaataa atattctcat tgtcaatcag 150

<210> 51
<211> 151
<212> DNA
<213> Homo sapiens

<400> 51
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gggaggggtc tctcctccca ccccaaggca tcaagccctt ctccctgcac tcaataaacc 120

ctcaataaat attctcattg tcaatcagca a 151

<210> 52

<211> 147

<212> DNA

<213> Homo sapiens

<400> 52

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ccaataaata tcctcattga caaccag 147

<210> 53

<211> 150

<212> DNA

<213> Homo sapiens

<400> 53

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ccaataaata tcctcattga caaccagcaa 150

<210> 54

<211> 254

<212> DNA

<213> Homo sapiens

<400> 54

gcagctattt gagcctgacg cctgagcagt ggaagtccca cagaagctac agctgccagg 60

tcacgcatga agggagcacc gtggagaaga cagtggcccc tacagaatgt tcataggttc 120

taaaccctca ccccccccac gggagactag agctgcagga tcccagggga ggggtctctc 180

ctcccacccc aaggcatcaa gcccttctcc ctgcactcaa taaaccctca ataaatattc 240

tcattgtcaa tcag 254

<210> 55
<211> 239
<212> DNA
<213> Homo sapiens

<400> 55
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ttccgaagtc actgcagcgg atgatggaac tgaatcgata cggtgttttc tgtccctcct 120

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tctttcttta ataaaattaa gtctttacaa taaaaacaca actgcaaagt accttcata 239

<210> 56
<211> 270
<212> DNA
<213> Homo sapiens

<400> 56
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ttgtaatact tgcatgcttc ttagaccaga acatgtaggt ccccttgtgt ctcaatactt 120

tttttttctt aattgcattt gttggctcta ttttaatttt tttcttttaa aataaacagc 180

tgggaccatc ccaaaagaca agccatgcat acaactttgg tcatgtatct ctgcaaagca 240

tcaaattaaa tgcacgcttt tgtcatgtca 270

<210> 57
<211> 147
<212> DNA
<213> Homo sapiens

<400> 57
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catttgaaac aatccatttt gtaactgaac cttatgaaat atatgtattt catggtacgt 120

attctctagc acagtctgag caattaa 147

<210> 58
<211> 97
<212> DNA
<213> Homo sapiens

<400> 58
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cttttcagaa tgaccctaac gagacacatt tgcccaa 97

<210> 59
<211> 213
<212> DNA
<213> Homo sapiens

<400> 59

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ccaagaaaag tcaaggccct tcatgacctt gctgggcaca gaaaacaccc tcgtggagta 120

cactaatttg aactggactg gtctcagtgt gagcacttgg cacactttac taaacacata 180

tacaacccca ccgtgagtca actttaaagt aaa 213

<210> 60

<211> 151

<212> DNA

<213> Homo sapiens

<400> 60

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atgagtgcta tggtgttgaa aactgcagtg tccgttatga gtgccaaaaa tttgtcttga 120

aggcagctac actttgaagt ggtctttgaa t 151

<210> 61

<211> 116

<212> DNA

<213> Homo sapiens

<400> 61

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ggggtggctg ggcagtcagg gaaggagggt cgcccggatc cgacattttg gagaga 116

<210> 62

<211> 220

<212> DNA

<213> Homo sapiens

<400> 62

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atatgggata tccagatgag aagcaaatca ttggagccaa tatgtaacat actttaaaag 120

tccaaggagc aaaatttgcc tgtccagctc cctctcccca agaaacaaca tgaatgagca 180

acttcagagt gtcaaacaac tgccattaaa cttaactcaa 220

<210> 63

<211> 262

<212> DNA

<213> Homo sapiens

<400> 63

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acccctccca cccccatact ggtactgctg taatgagcca agtggcagct aaaagttggg 120

ggtgttctgc ccagtcccgt cattctgggc tagaaggcag gggaccttgg catgtggctg 180

gccacaccaa gcaggaagca caaactcccc caagctgact catcctaact aacagtcacg 240

ccgtgggatg tctctgtcca ca 262

<210> 64

<211> 72

<212> DNA

<213> Homo sapiens

<400> 64

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taacttttc ca 72

<210> 65

<211> 232

<212> DNA

<213> Homo sapiens

<400> 65

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tattggaaag tgtaacgggg acctttttgca tacctgttta gaaccaaaac caccatgaca 180

cagtttttat agtgtctgta tatttgtgat gcaatggtct tgtaaaggtt tt 232

<210> 66

<211> 53

<212> DNA

<213> Homo sapiens

<400> 66

gaccaggaat tcggcttcga cgttggccct gtctgcttcc tgtaaactcc ctc 53

<210> 67

<211> 76

<212> DNA

<213> Homo sapiens

<400> 67

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aaaattgttc agtcca 76

<210> 68

<211> 132

<212> DNA

<213> Homo sapiens

<400> 68

aaaagttcac agtcaaatgg ggaggggtat ttttcatgca ggagacccca ggccctggag 60

gctgcaacat acctcaatcc tgtcccaggc cggatcctcc tgaagccctt ttcgcagcac 120

tgctatcctc ca 132

<210> 69

<211> 287

<212> DNA

<213> Homo sapiens

<400> 69

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gacttggttg aacttggttg gtccttgtct gcaccctcga caagaccaca ctttgggact 120

tgggagctgg ggctgaagtt gctctgtacc catgaactcc cagtttgcga attatagaga 180

caatctattt tgttacttgc acttgttatt cgaaccactg agagcgagat gggaagcata 240

gatatctata tttttatttt tactatgagg gccttgtaat aaatttc 287

<210> 70
<211> 36
<212> DNA
<213> Homo sapiens

<400> 70
tgggggggca gaggcgtctg accccaggaa cctgca 36

<210> 71
<211> 157
<212> DNA
<213> Homo sapiens

<400> 71
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gggggggcag aggcgtctga ccccaggaac ctgcagggcg gggctgggtc ggtgcccttt 120

aaggacaatt ttgaccttgt tcaacctttc cacaaag 157

<210> 72
<211> 212
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<213> Homo sapiens

<400> 72

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atgagtgcga cggccggcaa gcccccgctc cccaggctct cggggtcgcg cgaggatgct 120

tggcacgtac cccgtgtaca tacttcccgg gcgcccagca tggaaataaa gcacccagcg 180

ctgccctggg cccctgcgca actttcttgt ac 212

<210> 73

<211> 225

<212> DNA

<213> Homo sapiens

<400> 73

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aactgcaagt gatttaaaaa ttagagaata taatttttaa agctattgaa agtttcaacc 120

agaaaacctc aagtgaattt tgtatgtaaa tgaaattttg aatgtaagtt ctgtgattct 180

ttaagcaaac aattagctga aaacttggta ttgttgtagt ttatg 225

<210> 74

<211> 287

<212> DNA

<213> Homo sapiens

<400> 74

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tagaagcaaa caaaatactt ttacccactt aaaaagagaa tataacattt tatgtcacta 120

taatcttttg ttttttaagt tagtgtatat tttgttgtga ttatcttttt gtggtgtgaa 180

taaatctttt atcttgaatg taataagaat ttggtggtgt caattgctta tttgttttcc 240

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<210> 75
<211> 276
<212> DNA
<213> Homo sapiens

<400> 75
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gtattttggt cttaagatga ctttagtaat ttaactgttt atgttaccca cgttgggatc 120

cagttggtct tggtttgctt ctctctgtac cacgtgcaca tgaggtccat tcattttaca 180

gcccctgtta cacacagacc cacaggcagc cgtctgtgcc ccgcacacat tgttggtcct 240

atttgtaaat cccacacccg gtgtatccaa taaagt 276

<210> 76
<211> 222
<212> DNA
<213> Homo sapiens

<400> 76
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agggtaatct gacttctcac ttcctaagtt cccttctata tcctcaaggt agaaatgtct 120

atgtttttta ctccaattca taaatctatt cataagtctt tggtacaagt ttacatgata 180

aaaagaaatg tgatttgtct tcccttcttt gcacttttga aa 222

<210> 77
<211> 182
<212> DNA
<213> Homo sapiens

<400> 77
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aacagataat agcaacttgg gaaatgctta tgttacaggt tacgtgagaa caatcatgta 120

aatctatatg atttcagaaa tgttaaaata gactaacctc taccagcaca ttaaaagtga 180

tt 182

<210> 78
<211> 212
<212> DNA
<213> Homo sapiens

<400> 78
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atttgattgg gtgtctgttt ctcgcagcca aaagagcttt gaatgaggaa agtgcttctg 120

tgctaactcc ccgcgtctcc tgaatttcag tcattcatgt acccgcctcg aaatttttgc 180

aatatctgtg taccaactgt ccatttactt aa 212

<210> 79
<211> 238
<212> DNA
<213> Homo sapiens

<400> 79
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atggttcact gcagtcttga ccttttgggc tcaagtgatc ctcccacctc agcctcctga 120

gtagctggga ccataggctc acaacaccac acctggcaaa tttgattttt ttttttttc 180

cagagacggg gtctcgcaac attgcccaga cttcctttgt gttagttaat aaagcttt 238

<210> 80
<211> 262
<212> DNA
<213> Homo sapiens

<400> 80
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tgaacacctt tctgccaccc caagctttgc tctcctcctc tgtgagctct gggcttccca 120

gtttgtttac ccgggaaagt acgtctagat tgtgtggttt gcctcattgt gctatttgcc 180

cactttcctt ccctgaagaa atatctgtga accttctttc tgttcagtcc taaaattcga 240

aataaagtga gactatggtt ca 262

<210> 81

<211> 129

<212> DNA

<213> Homo sapiens

<400> 81

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atatgtatgt atgtgttgtg tacacgatgt tttagtgcta aaaatatgta aaagagctct 120

acttggctt 129

<210> 82

<211> 178

<212> DNA

<213> Homo sapiens

<400> 82

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aacaatataa tattttaaaa tgtataaata attatgaatt tttgtttaga acaaagagga 120

ttactgatat ttgtttccct atgaatggca aaaggtttag cttactactg catttctg 178

<210> 83

<211> 135

<212> DNA

<213> Homo sapiens

<400> 83

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cagtgtttat ttgctggtgt ctcagggatt tgacagtttc cttaatattc ccacacatgg 120

ccgagaaaaa taaat 135

<210> 84
<211> 235
<212> DNA
<213> Homo sapiens

<400> 84
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tgggaagtag ctgcctataa ctgagactag acggaaaagg aatactcgtg tattttaaga 120

tatgaatgtg actcaagact cgaggccgat acgaggctgt gattctgcct ttggatggat 180

gttgctgtac acagatgcta cagacttgta ctaacacacc gtaatttggc atttg 235

<210> 85
<211> 177
<212> DNA
<213> Homo sapiens

<400> 85
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ctttcccatc ctcaaaaaag ggccatttta tgatgcattg cacaccctct ggggaaattg 120

atctttaaat tttgagacag tataaggaaa atctggttgg tgtcttacaa gtgagct 177

<210> 86

<211> 236

<212> DNA

<213> Homo sapiens

<400> 86

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cttttccaac ctgtatcaat ttttacaact ttttttcctga aagcagttta gtccatactt 120

tgcactgaca tacttttttcc ttctgtgcta aggtaaggta tccaccctcg atgcaatcca 180

ccttgtgttt tcttagggtg gaatgtgatg ttcagcagca aacttgcaac agactg 236

<210> 87

<211> 243

<212> DNA

<213> Homo sapiens

<400> 87

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gtggtcttgt tcagaagcag ccagatttcc aatgttgttt ttcccctcca ctcagaaacc 120

cctgcccttt cccttcagaa aacgatggca ggcattcctt tgagtttaca agcagagact 180

cactccaacc caaactagct gggagttcag aaccatggtg gaataaagaa atgtgcatct 240

ggt 243

<210> 88

<211> 221

<212> DNA

<213> Homo sapiens

<400> 88

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tcaaatgtca gcttaaaatt ggtaattgaa tggaagcaaa attataagaa gaggaaatta 120

aagtcttcca ttgcatgtat tgtaaacaga aggagatggg tgattccttc aattcaaaag 180

ctctctttgg aatgaacaat gtgggcgttt gtaaattctg g 221

<210> 89

<211> 273

<212> DNA

<213> Homo sapiens

<400> 89

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gtaatggctg atcctgcatc agcattgtat atatggtctt aagtgcctgg cctccttatc 120

cttcagaata tttattttac ttacaatcct caagttttaa ttgattttaa atatttttca 180

atacaacagt ttaggtttaa gatgaccaat gacaatgacc acctttgcag aaagtaaact 240

gattgaataa ataaatctcc gttttcttca att 273

<210> 90

<211> 225

<212> DNA

<213> Homo sapiens

<400> 90

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cttgaatatt aaaaggttgt aaaaatagtg catgttatgt gatttcaatt ttgtttttta 120

aaatatgggt gtatgcttgt atacgtagag cagataaaaa agacggaagg catactaaaa 180

aatgttgagt ggttatcttt gtatggtgga acaaagtcac tgtaa 225

<210> 91

<211> 182

<212> DNA

<213> Homo sapiens

<400> 91

atgctgagtg acactcttgt gtatatttcc aaatttttgt acagtcgctg cacatatttg 60

aaatcatata ttaagacttt ccaaagatga ggtccctggt ttttcatggc aacttgatca 120

gtaaggattt cacctctgtt tgtaactaaa accatttact atatgttaga catgacattc 180

tt 182

<210> 92

<211> 157

<212> DNA

<213> Homo sapiens

<400> 92

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agagtcaaga attttgttgg attgtgtttg tgtgtgcata tatttgatat catcattata 120

tttgtaatct ttggacttgt aatcatagcc tgtttat 157

<210> 93
<211> 201
<212> DNA
<213> Homo sapiens

<400> 93
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tagctagcct ccccatctca tcacaacgca tgtctgtgac ctttggtaat catttacagt 120

gccacacgga accctgtatt ttgcacacag caaaacaaac aatgtttagc tttatttatg 180

gtatttgatg ctgtaaatgg a 201

<210> 94
<211> 35
<212> DNA
<213> Homo sapiens

<400> 94
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<210> 95
<211> 249
<212> DNA
<213> Homo sapiens

<400> 95

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cagaataggt tccgttttgg gcggtggttc tcgagcctgc cattcaaaac caaagcaaat 120

tggagcattt ctcacaacat ggtattgaag ttccttttg ttctcaaaag ttgtgaccgt 180

gttaaattgt actcccttag tcctgtaagg tatgttaagt gaatcgcagt tacgctgtac 240

ttttattaa 249

<210> 96
<211> 203
<212> DNA
<213> Homosapiens

<400> 96
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ccctttgatg tcttcatctg tatggggtgg aaaaatcacc gggaatcccc cttcagttct 120

ttgaaaaagt tccatgactc gaatatctga aatgaagaaa acaaaccgac tcacaaacct 180

ccaagtagct ccaaatgcaa ttt 203

<210> 97
<211> 73
<212> DNA
<213> Homo sapiens

<400> 97
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tgtattaatc ccc 73

<210> 98
<211> 123
<212> DNA
<213> Homo sapiens

<400> 98
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cgaagtttgt tcatcagact cctgtgcaac tttcccaatg tggcctaaaa atgcaacttc 120

ttt 123

<210> 99
<211> 132
<212> DNA
<213> Homo sapiens

<400> 99
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attataaaaa gtatttgaaa tttgcacatt taattgtccc taatagaaag ccacctattc 120

tttgttggat tt 132

<210> 100
<211> 189
<212> DNA
<213> Homo sapiens

<400> 100

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acccccctccc ccacccacct ctctggcttc catgctccgc ctgtaaaatg ggggcgctat 120

tgcttcagct gctgaaggga gggggctggc tttgagagcc ccaggactgg ctgccccgtg 180

acacatgct 189

<210> 101
<211> 265
<212> DNA
<213> Homo sapiens

<400> 101

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tcccatctgc ctgagccagg gaaggacccc ctcccccacc cacctctctg gcttccatgc 120

tccgcctgta aaatgggggc gctattgctt cagctgctga agggaggggg ctggctttga 180

gagccccagg actggctgcc ccgtgacaca tgctttaaga agctcgtttt ttagacctct 240

tcctggaata aacatctgtg tctgt 265

<210> 102
<211> 174
<212> DNA
<213> Homo sapiens

<400> 102

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aagggtcccc ctgctgactg gagagctggg aatatggcat ttggacactt catttgtaaa 120

tagtgtacat tttaaacatt ggctcgaaac ttcagagata agtcatggag agga 174

<210> 103
<211> 239
<212> DNA
<213> Homo sapiens

<400> 103
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aattgcagat tattttgcag agagggaatt gcatgtttgt gttgtatatt tagtatgaac 120

ttttttcaga atataatatt ttttagttat caaaagtagt tggaaaacat ttgcaagact 180

atgaacatag aattgctgct tttatatttt aactgcagat tgtgaatttc actgcctta 239

<210> 104
<211> 110
<212> DNA
<213> Homo sapiens

<400> 104
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ttaaaagttt agggttttct cttggttgta gagtggccca gaattgcatt 110

<210> 105
<211> 292

<212> DNA

<213> Homo sapiens

<400> 105

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agaatgaaag ggcccagaga gggtggtgac ctctgcctga agtcacacag tgagtcgagg 120

acagggaggt gaccccaggt ttctatgtgt agggcgggag gatgttttgg gacacagttc 180

aattctcatt tgtcacacac tttggctatt agagatcaac cccttcgctc ctgtgtcttg 240

caatggcagc cttggcaaac gctaaatgaa aatcgtgaca acacttgtgt ta 292

<210> 106

<211> 223

<212> DNA

<213> Homo sapiens

<400> 106

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ccacattgta tatccttcca ccctctggct gcctagatca gtaaataaaa ttgatgtaat 120

ataatttata agtaacactg ttgaaaccct gatcccagtg gaggctgtaa cccacctgcc 180

cccgcaccac ccccctgacc cctgttaccg catttgtgtg tat 223

<210> 107

<211> 275

<212> DNA

<213> Homo sapiens

<400> 107

gttatggtgc taatgtactt tcacttttaa actctagatc agaattgttg acttgcattc 60

agaacataaa tgcacaaaat ctgtacatgt ctcccatcag aaagattcat tggcatgcca 120

caggggattt tcctccttca tcctgtaaag gtcaacaata aaaaccaaat tatggggctg 180

cttttgtcac actagcatag agaatgtgtt gaaatttaac tttgtaagct tgtatgtggt 240

tgttgatctt ttttttcctt acagacaccc ataat 275

<210> 108

<211> 196

<212> DNA

<213> Homo sapiens

<400> 108

tctggcccgc aatactgtag gaacaagcat gatcttgtta ctgtgatatt ttaaatatcc 60

acagtactca ctttttccaa atgatcctag taattgccta gaaatatctt tttcttacct 120

gttatttatc aatttttccc agtattttta tacggaaaaa attgtattga aaacacttag 180

tatgcagttg ataaga 196

<210> 109

<211> 129

<212> DNA

<213> Homo sapiens

<400> 109

gctgcggaga gctcatggaa ggcgagtggg aacccggctg cctgcctttt tttttgatcc 60

agaccctcgg cacctgctac ttaccaactg gaaaatttta tgcatcccat gaagcccaga 120

tacacaaaa 129

<210> 110
<211> 296
<212> DNA
<213> Homo sapiens

<400> 110
tgaggatgtc accaattaac cagaaatcca gttattttcc gccctcaaaa tgacagccat 60

ggccggccgg gtgcttttgg gggctcgtcg gggggacagc tccactttga ctggcacagt 120

ctttgcatgg agacttgagg agggagggct tgaggttggt gaggttaggt gcgtgtttcc 180

tgtgcaagtc aggacatcag tttgattaaa ggtggtgcca atttatttac atttaaactt 240

gtcagggtat aaaatgacat cccattaatt atattgttaa tcaatcacgt gtatag 296

<210> 111
<211> 108
<212> DNA
<213> Homo sapiens

<400> 111
acatgcagta ctgtataccc cccatccctc cctcggtcca ctgaacttca gagcagttcc 60

cattcctgcc ccgcccatct ttttgtgtct cgctgtgata gatcaata 108

<210> 112
<211> 243
<212> DNA
<213> Homo sapiens

<400> 112
acaaaagagc cagagttctg gacccatgtt tggagcattt gtagccttat ttttttgcgt 60

gtgaatcttt taccctgaaa aaaagccata atgaattaag ccagactgac cacttgcttg 120

gagtgtgtgc ttgaaaaaac cagagcaata ctgttgggta ttgtatcagg cttcagtaca 180

aactggtaac accaatgtgg atcctgacag ctttcagttt tagcaaaaat acacgtgaaa 240

tct 243

<210> 113
<211> 52
<212> DNA
<213> Homo sapiens

<400> 113
agtgcaacgt attcaagtcc tcaatatcct gatcataata ccatgctata gg 52

<210> 114
<211> 294
<212> DNA
<213> Homo sapiens

<400> 114
tccatcaggg ccagattttc cacgtctcca tctcagtaca caatcattta atatttccct 60

gttttacccc tattcaagca actagaggcc agaaaatggg caaattatca ctaacaggtc 120

tttgactcag gttccagtag ttcattttaa tgcctagatt cttttgtggt tgttgctggc 180

ccaatgagtc cctagtcaca tcccctgcca gagggagttt ttttttgtg agagacactg 240

taaacgacac aagagaacaa gaataaaaca ataactgtgt gtgttttggc tgag 294

<210> 115
<211> 277
<212> DNA
<213> Homo sapiens

<400> 115
acaggttagt tcagtcaaag caggcaaccc ccttgtgggc actgaccctg ccactggggt 60

catggcggtt gtggcagctg gggaggtttg gccccaacag ccctcctgtg cctgcttccc 120

tgtgtgtcgg ggtcctccag ggagctgacc cagaggtgga ggccacggag gcagggtctc 180

tggggactgt cgggggggtac agagggagaa ggctctgcaa gagctccctg gcaatacccc 240

cttgtgtaat tgctttgtgt gcgacaggga ggaagtt 277

<210> 116
<211> 173
<212> DNA
<213> Homo sapiens

<400> 116
ggcttcctac cttgcaacaa aataattgca ccaactcctt agtgccgatt ccgcccccag 60

agagtcctgg agccacagtt ttttttgctt tgcattgtag gagagggaat aagtgctaga 120

gactatgtcg ctttcctgag ctaccgagag cgctcgtgaa ctggaatcaa ctg 173

<210> 117
<211> 217
<212> DNA
<213> Homo sapiens

<400> 117
agaagtggta aaagtggata atcttgtctt gtactttatt ttagaggaaa agctgtcagt 60

ttttcactgc tgaatatgat gttaactatg aacttttttat acatgtattt actatgttga 120

ggtaatttcc ttttactcct ggtttaagtg ttttttgttt ttttttgttt ttttttttttt 180

ttaaatcatg gaaggacttg ggttttatca aatgtct 217

<210> 118
<211> 286
<212> DNA
<213> Homo sapiens

<400> 118
actttgccgg cgagcacacc gcctacccgc acggctgggt ggagacggcg gtcaagttgg 60

cgctgcgcgc cgccatcaag atcaacagcc ggaaggggcc tgcatcggac acggccagcc 120

ccgaggggca cgcatttgac atggaggggc aggggcatgt gcatggggtg gccagcagcc 180

cctcgcatga cctggcaaag gaagaaggca gccaccctcc agtccaaggc cagttatctt 240

tccaaaacac gacccacacg aggacctcgc attaaagtat tttcgg 286

<210> 119
<211> 168
<212> DNA
<213> Homo sapiens

<400> 119
catttcatgt ttggcgggca tgtgagtgca caagatggaa agagcgattg gagcatcctg 60

gtataattac ccccattgtg cttttaatgg aaatttcaaa ggacgggagt attttgttgg 120

ttggtgtcca ggtttgtggc actgttccaa gaggccttac acacacac 168

<210> 120
<211> 150
<212> DNA
<213> Homo sapiens

<400> 120
aatgttcata ggttctcaac cctcaccccc caccacggga gactagagct gcaggatccc 60

aggggagggg tctctcctcc caccccaagg catcaagccc ttctccctgc actcaataaa 120

ccctcaataa atattctcat tgtcaatcaa 150

<210> 121
<211> 177
<212> DNA
<213> Homo sapiens

<400> 121

ctactgccag ggaaatgcta cattattttt ctaattggaa gtataattag agtgatgttg 60

gtagggtaga aaaagaggga gtcacttgat gctttcaggt taatcagagc tatgggtgct 120

acaggcttgt ctttctaagt gacatattct tatctaattc tcagatcagg ttttgaa 177

<210> 122

<211> 124

<212> DNA

<213> Homo sapiens

<400> 122

ggcagcatac tgagaccctg cctttaaaaa caaacagaac aaaaacaaaa caccagggac 60

acatttctct gtctttttg atcagtgtcc tatacatcga aggtgtgcat atatgttgaa 120

tgac 124

<210> 123

<211> 64

<212> DNA

<213> Homo sapiens

<400> 123

atgttcatag gttctcaacc ctcacccccc accacgggag actagagctc aggatcccag 60

ggga 64

<210> 124

<211> 167

<212> DNA

<213> Homo sapiens

<400> 124

tctgagcggg tcatggggca acacggttag cggggagagc acggggtagc cggagaaggg 60

cctctggagc aggtctggag gggccatggg gcagtcctgg gtgtggggac acagtcgggt 120

tgacccaggg ctgtctccct ccagagcctc cctccggaca atgagtc 167

<210> 125

<211> 36

<212> DNA

<213> Homo sapiens

<400> 125

caccactaaa agatcgcagt ttgcctggtg cagtgg 36

<210> 126

<211> 129

<212> DNA

<213> Homo sapiens

<400> 126

aatgcatatg gaggtaggct gaaaagaatg taatttttat tttctgaaat acagatttga 60

gctatcagac caacaaacct tccccctgaa aagtgagcag caacgtaaaa acgtatgtga 120

agcctctct 129

<210> 127

<211> 150

<212> DNA

<213> Homo sapiens

<400> 127

aatgttcata ggttctcatc cctcaccccc caccacggga gactagagct gcaggatccc 60

aggggagggg tctctcctcc caccccaagg catcaagccc ttctccctgc actcaataaa 120

ccctcaataa atattctcat tgtcaatcaa 150

<210> 128

<211> 83

<212> DNA

<213> Homo sapiens

<400> 128

ttccaccatc aaatgctgta gaatgcttgg cactccctaa ccaaatgctg tctccataat 60

gccactggtg ttaagatata ttt 83

<210> 129

<211> 121

<212> DNA

<213> Homo sapiens

<400> 129

atataccata ggctaaaact aaggctttca ctctagaatg caaagctgtt ttgcagctgt 60

tttcccttaa agatgtcctg ttgctttagt gatatttaga cccctctcag ttaagaaatg 120

c 121

<210> 130
<211> 257
<212> DNA
<213> Homo sapiens

<400> 130
ttatctgaag gttaaagggc aagtgtttgg tatagaagag cagtatgtgt taagaaaaga 60

aaaatattgg ttcacgtaga gtgcaaatta gaactagaaa gttttatacg attatcattt 120

tgagatgtgt taaagtaggt tttcactgta aaatgtatta gtgtttctgc attgccatag 180

ggcctggtta aaactttctc ttaggtttca ggaagactgt cacatacagt aagctttttt 240

ccttctgact tataata 257

<210> 131
<211> 285
<212> DNA
<213> Homo sapiens

<400> 131
caagacctag gctcatggac gagatgggaa ggcacaggga gaagggataa ccctacaccc 60

agaccccagg ctggacatgc tgactgtcct ctcccctcca gcctttggcc ttggcttttc 120

tagcctattt acctgcaggc tgagccactc tcttcccttt ccccagcatc actccccaag 180

gaagagccaa tgttttccac ccataatcct ttctgccgac ccctagttcc ctctgctcag 240

ccaagcttgt tatcagcttt cagggccatg gttcacatta gaata 285

<210> 132
<211> 105
<212> DNA
<213> Homo sapiens

<400> 132
gtatttattg agtcacggat tattgtgcat caagcaattg ttaatatgac ctggtcctat 60

ggggtagaac ttaggaaaaa taaagttggt tcttattcaa tattt 105

<210> 133
<211> 205
<212> DNA
<213> Homo sapiens

<400> 133
atggacccac cttactggcc agtctgcatc cttgcctaga ccattctccc caccagatgg 60

acttctcctc cagggagccc accctgaccc acccccactg cacccctcc ccatgggttc 120

tctccttcct ctgaacttct ttaggagtca ctgcttgtgt ggttcctggg acacttaacc 180

aatgccttct ggtactgcca ttctt 205

<210> 134
<211> 189
<212> DNA
<213> Homo sapiens

<400> 134

ctggttttag cattattaga ataagacttt atacattaac taaagtggag ctttaatcac 60

tataaaaagc aaaagtatct atagacacag acacttgcct atacagagac ataaccacac 120

acactcagag gatagtgaac aaatctgtct ttgacttacg acccattttg caagacttaa 180

agccggaag 189

<210> 135

<211> 248

<212> DNA

<213> Homo sapiens

<400> 135

atgccctgag gccagttggc gaggggtggc tcctgagggt ttttataccc tttgtttgct 60

aatgtttaat tttgcatcat aatttctaca ttgtccctga gtgtcagaac tataatttat 120

tccatttctc tctgtgtctg tgccaagaaa cgcaggctct gggcctgccc cttgcccagg 180

aggccttgcc agcctgtgtg cttgtgggaa caccttgtac ctgagcttac aggtaccaat 240

aaagaggc 248

<210> 136

<211> 99

<212> DNA

<213> Homo sapiens

<400> 136

gcccgaatca tgacagtcag caacatgata cctggatcca gccattcctg aagcccaccc 60

tgcacctcat tccaactcct accgcgatac agacccaca 99

<210> 137
<211> 250
<212> DNA
<213> Homo sapiens

<400> 137
gctataaagt gcttgaccag taatgtggtt gtaattttgt gtatgttccc ccacatcgcc 60

cccaacttcg gatgtggggt caggaggttg aggttcacta ttaacaaatg tcataaatat 120

ctcatagagg tacagtgcca atagatattc aaatgttgca tgttgaccag agggatttta 180

tatctgaaga acatacacta ttaataaata ccttagagaa agattttgac ctggctttag 240

ataaaactgt 250

<210> 138
<211> 55
<212> DNA
<213> Homo sapiens

<400> 138
atactggaaa cctaactgca atgtggatgt tttacccaca tgacttatta tgcat 55

<210> 139
<211> 237
<212> DNA
<213> Homo sapiens

<400> 139

agaagaccca cgtgctaggg gatgaggggc ttcctgggtc ctgttcccta ccccatttgt 60

ggtcacagcc atgaagtcac cgggatgaac ctatccttcc agtggctcgc tccctgtagc 120

tctgcctccc tctccatatc tccttccccc acacctcccc ccccacacct ccctactccc 180

ctgggcatct tctggcttga ctggatggaa ggagacttag gaacctacca gttggcc 237

<210> 140

<211> 216

<212> DNA

<213> Homo sapiens

<400> 140

gaggcagagg cttgggtaaa ctcattccac aaaccctatg ggggctgcca cgtcacaggc 60

ccaaaggact cttcttcagc agcatctttg caaaatgtct ttctctcaat gaagagcata 120

tctggacgac tgtgcaatgc tgtgtgctcc cgggatcagt aacccttccg ctgttcctga 180

aataaccttt cataaagtgc tttgggtgcc attcca 216

<210> 141

<211> 156

<212> DNA

<213> Homo sapiens

<400> 141

gatgtatagc tttagcttta gcctggcaac ctggagaatc cacatacctt gtgtattgaa 60

ccccaggaaa aggaagaggt cgaaccaacc ctgcggaagg agcatggttt caggagttta 120

ttttaagact gctgggaagg aaacaggccc catttt 156

<210> 142
<211> 151
<212> DNA
<213> Homo sapiens

<400> 142
ctgactctgg gttcgttggg gacatgagat tttatttttt gtgagtgaga ctgagggatc 60

gtagattttt acaatctgta tctttgacaa ttctgggtgc gagtgtgaga gtgtgagcag 120

ggcttgctcc tgccaaccac aattcaatga a 151

<210> 143
<211> 151
<212> DNA
<213> Homo sapiens

<400> 143
gcagaaatat gtaaccttag actcagccag tttcctctgc agctgctaaa actacatgtg 60

gccagctcca ttcttccaca ctgcgtacta catttcctgc ctttttcttt cagtgttttt 120

ctaagactaa ataaatagca aactttcacc t 151

<210> 144
<211> 132
<212> DNA

<213> Homo sapiens

<400> 144

caactctaac cccacccacg ggagcctgga gctgcaggat cccaggggag gggtctctct 60

ccccatccca agtcatccag cccttctccc tgcactcatg aaaccccaat aaatatcctc 120

attgacaacc aa 132

<210> 145

<211> 80

<212> DNA

<213> Homo sapiens

<400> 145

cctttgactt ctgaccctct catcctggat ggtgtgtggt ggcacaggaa cccccgcccc 60

aacttttgga ttgtaataaa 80

<210> 146

<211> 94

<212> DNA

<213> Homo sapiens

<400> 146

ctgggcttgg gtgcccatat aggaggtctg tatgttcacc aacagtgcgg aggggtcaca 60

cattgcaaaa cactgcccag aacagtaaaa agag 94

<210> 147

<211> 264

<212> DNA

<213> Homo sapiens

<400> 147

atgagaatga tggttgaagg ttacatttta ggaaatgaag aaacttagaa aattaatata 60

aagacagtga tgaatacaaa gaagattttt ataacaatgt gtaaaatttt tggccaggga 120

aaggaatatt gaagttagat acaattactt acctttgagg gaaataattg ttggtaatga 180

gatgtgatgt ttctcctgcc acctggaaac aaagcattga agtctgcagt tgaaaagccc 240

aacgtctgtg agatccagga aacc 264

<210> 148

<211> 286

<212> DNA

<213> Homo sapiens

<400> 148

taaagacgca tgttatggtg ctaatgtact ttcactttta aactctagat cagaattgtt 60

gacttgcatt cagaacataa atgcacaaaa tctgtacatg tctcccatca gaaagattca 120

ttggcatgcc acaggggatt ctcctccttc atcctgtaaa ggtcaacaat aaaaaccaaa 180

ttatggggct gcttttgtca cactagcata gagaatgtgt tgaaatttaa ctttgtaagc 240

ttgtatgtgg ttgttgatct ttttttttcct tacagacacc cataat 286

<210> 149

<211> 42

<212> DNA

<213> Homo sapiens

<400> 149

ccattcctcg ccctgtcccc acagccgagt cctgcatcag cc 42

<210> 150

<211> 189

<212> DNA

<213> Homo sapiens

<400> 150

ttaccctcca aaagcaagta gccaaagccg ttgccaaacc ccacccataa atcaatgggc 60

cctttattta tgacgacttt atttattcta atatgatttt atagtattta tatatattgg 120

gtcgtctgct tcccttgtat ttttcttcct ttttttgtaa tattgaaaac gacgatataa 180

ttattataa 189

<210> 151

<211> 211

<212> DNA

<213> Homo sapiens

<400> 151

gtcaggtctt ggtaggtgcc tgcatctgtc tgccttctgg ctgacaatcc tggaaatctg 60

ttctccagaa tccaggccaa aaagttcaca gtcaaatggg gaggggtatt cttcatgcag 120

gagaccccag gccctggagg ctgcaacata cctcaatcct gtcccaggcc ggatcctcct 180

gaagcccttt tcgcagcact gctatcctcc a 211

<210> 152
<211> 211
<212> DNA
<213> *Homo sapiens*

<400> 152
gaaaaaactt tctctttgcc atttcttctt cttctttttt aactgaaagc tgaatccttc 60

catttcttct gcacatctac ttgcttaaat tgtgggcaaa agagaaaaag aaggattgat 120

cagagcattg tgcaatacag tttcattaac tccttccccc gctcccccaa aaatttgaat 180

tttttttca acactcttac acctgttatg g 211

<210> 153
<211> 89
<212> DNA
<213> Homo sapiens

<400> 153
tgactgaatt gctgaccctt caagctctgt ccttatccat tacctcaaag cagtcattcc 60

ttagtaaagt ttccaacaaa tagaaatta 89

<210> 154
<211> 162
<212> DNA
<213> Homo sapiens

<400> 154

gcattctcaa gaggtcgtgc caatcagcca ctgaaaggaa aggcatcact atggactttc 60

tctattttaa aatggtaaca atcagaggaa ctataagaac acctttagaa ataaaaatac 120

tgggatcaaa ctggcctgca aaaccatagt cagttaattc tt 162

<210> 155

<211> 86

<212> DNA

<213> Homo sapiens

<400> 155

atcatttcat agtcatttat gtttcatcgg tcctcatgtg tactagtgcg ttatttttact 60

tatactcccg gatatcatat tattta 86

<210> 156

<211> 233

<212> DNA

<213> Homo sapiens

<400> 156

gaaacacaag agacttaaag gacaggagga ggagatggcc ataggagagg agggttcctc 60

ttaggtcaga tggaggttct cagagccaag tcctccctct ctactggagt ggaaggtcta 120

ttggccaaca atcctttctg cccacttccc cttccccaat tactattccc tttgacttca 180

gctgcctgaa acagccatgt ccaagttctt cacctctatc caaagaactt gat 233

<210> 157

<211> 146

<212> DNA

<213> Homo sapiens

<400> 157

atgttcatag gttctcaacc ctcaccccca ccacgggaga ctagagctgc aggatcccag 60

gggaggggtc tctcctccca ccccaaggca tcaagccctt ctccctgcac tcaataaacc 120

ctcaataaat attctcattg tcaagg 146

<210> 158

<211> 265

<212> DNA

<213> Homo sapiens

<400> 158

aacaaaatat ttctccccta gtgagagaaa gaggtcctca gagagtagca gctcacataa 60

ctgggaccag aggaagaagc aacacattgt cttctccaaa ctccaagaat gaaaaggctc 120

tgggccgcaa aataaactcc tgggaatcat caaggagtgg gcattcattc ctgagcaact 180

tgcacttgag gaatggtgaa ctggtcatcc atgaaaaagg gttttactac atctattccc 240

aaacatactt tcgatttcag gagga 265

<210> 159

<211> 186

<212> DNA

<213> Homo sapiens

<400> 159
gctgagcaaa gcagactacg agaaacacaa agtctacgcc tgcgaagtca cccatcaggg 60

cctgagctcg cccgtcacaa agagcttcaa caggggagag tgttagaggg agaagtgccc 120

ccacctgctc ctcagttcca gcctgacccc ctcccatcct ttggcctctg acccttttc 180

cacagg 186

<210> 160
<211> 41
<212> DNA
<213> Homo sapiens

<400> 160
tacaagacca cgcctcccgt gctggactcc gacggctcct t 41

<210> 161
<211> 45
<212> DNA
<213> Homo sapiens

<400> 161
aacagaaaag aaactgtaga ccttgggaca atcaacattt aaata 45

<210> 162
<211> 211
<212> DNA
<213> Homo sapiens

<400> 162

gaaaaaactt tctctttgcc atttcttctt cttctttttt aactgaaagc tgaatccttc 60

catttcttct gcacatctac ttgcttaaat tgtgggcaaa agagaaaaag aaggattgat 120

cagagcattg tgcaatacag tttcattaac tccttccctc gctcccccaa aaatttgaat 180

tttttttca acactcttac acctgttatg g 211

<210> 163

<211> 105

<212> DNA

<213> Homo sapiens

<400> 163

ggacctgaag ggtgacatcc caggaggggc ctctgaaatt tcccacaccc cagcgcctgt 60

gctgaggact ccctccatgt ggccccaggt gccaccaata aaaat 105

<210> 164

<211> 175

<212> DNA

<213> Homo sapiens

<400> 164

tcatgatttg tgtagcgtgg aatgtgtttg ctcaatgtga agggttttca ttgctcaatt 60

tctctgtgta agtcttttcc ttaaggtaat aaaccatcag caaagtcaca tactggagtt 120

ggtggctttt tttgtacagg cagttgttat gagacaatga tggagcattg agcat 175

<210> 165

<211> 65

<212> DNA

<213> Homo sapiens

<400> 165

ttaactccat atgtgttcct cttgttttaa ttttgtcaac cagtgcaagt gaccgacaaa 60

attcc 65

<210> 166

<211> 114

<212> DNA

<213> Homo sapiens

<400> 166

aaggagctga cacacggaga gtcacaggct atacagctgc ttcgagcagc gggaatgttt 60

gtcttgggat tagatgctga cgtgtggtga aatgttacag agagcccaga ggaa 114

<210> 167

<211> 100

<212> DNA

<213> Homo sapiens

<400> 167

tgccccccctt aaggctagag gtgagcatgt ccctcacaat tgcacatgtc aagccatcag 60

caaggcgcat cacacaaaag gcaccaagac gtgaaacttt 100

<210> 168

<211> 273

<212> DNA

<213> Homo sapiens

<400> 168

gagtctgtga ccgatgcaat tctacagaca gaccagattt tcacagaaaa ggaaaaggag 60

attgaagtgg aatgtgtaaa agctgaatct gcacaggctt cagcaaaaat ggtggaggaa 120

atgcaaataa agtatcagca gatgatggaa gagaaagaga agagttatca agaacatgtg 180

aaacaattga ctgagaagat ggagagggag agggcccagt tgctggaaga gcaagagaag 240

accctcacta gtaaacttca ggtatccaaa tgc 273

<210> 169

<211> 36

<212> DNA

<213> Homo sapiens

<400> 169

agcaggatca agggccggaa ataaaggctg ttgtaa 36

<210> 170

<211> 109

<212> DNA

<213> Homo sapiens

<400> 170

agaattattg catttgagct ccgctcccct tccgaaccaa ggtataaaag taaatcaagc 60

cccttcctcg gggccgagag aattttggaa agtcaagcct tctcttggc 109

<210> 171
<211> 115
<212> DNA
<213> Homo sapiens

<400> 171
gcatgctcag tcttttcctc ttatctacaa tacaaagggt ttgtctgaaa agtctggttt 60

ttttttctttt tacaaatgta ccttagctgc atcaacagga gtaagatgta gaaaa 115

<210> 172
<211> 175
<212> DNA
<213> Homo sapiens

<400> 172
atagagagta gatcagcgat tgtgaggagg taggggttaa agaaggattt tactacaaag 60

gtgcaatgca aggaagtttt gggggtgatg aactgtcctg tatcccgatt gtggtggcag 120

ttacatgaat ctatatttgt gttaagatct atagatctgt actccctcaa aaagt 175

<210> 173
<211> 279
<212> DNA
<213> Homo sapiens

<400> 173
gtaggtttgg gagtataacg gtcacccagg gaggggggtga agacggagaa gacttacata 60

gcacggtcag gttagggctg gacagatgag gaagagctag caaaggggc ttgaggagca 120

gtggccacta agacaggagt gtgacatttt agaagccaaa agaagaccat gtaattcaag 180

ggagaggtat gatttgctgg gtcagatcta aaaataaatc acacgttttt ttaaactgta 240

gtaattaacc actgaaaact tatgagtgat ccaatatta 279

<210> 174
<211> 74
<212> DNA
<213> Homo sapiens

<400> 174
cgatatgact tccatgtaaa cgttcatcca ctctgcctgc ttacaccctg ccctcatgct 60

aatgtaataa actc 74

<210> 175
<211> 48
<212> DNA
<213> Homo sapiens

<400> 175
gccgagatcg tgctagggtg actggagcaa aacccccttca agaaaaga 48

<210> 176
<211> 164
<212> DNA
<213> Homo sapiens

<400> 176

gtgtggatgc taaggtgttt gttttgtttt gtatttttat gtagcgcgtg ggtattgtgc 60

ctagaaatga agtcattatt agggatttaa atatgcaact catggagtgg atgagaccag 120

ctagaaagat aatagagtgt gaagaggaga tcggaaattc aata 164

<210> 177

<211> 34

<212> DNA

<213> Homo sapiens

<400> 177

attccaggac tttggcgcct tcaccgggag catg 34

<210> 178

<211> 32

<212> DNA

<213> Homo sapiens

<400> 178

cacaaagctc tgtcaataag tgatacatgt tt 32

<210> 179

<211> 141

<212> DNA

<213> Homo sapiens

<400> 179

atttttgcct ttccgtttct gtctatgatg taggcttctg aggagaacca agaagcttgg 60

ctttagtggt agaatgacag aacttaggga tcccttgcag gctagaacaa agttctgacc 120

cttagaccaa atctttatgt t 141

<210> 180
<211> 211
<212> DNA
<213> Homo sapiens

<400> 180
gtttgtgtgg gaactttgca agtcagtttc cctgtatgaa gtgatggaga gagtgattaa 60

gatactgagc tttctctgtg ttcttgccgt taaccattgc cggtttgtgg gagattaaga 120

agtcgatgcg ttttatggag aattaattta ttttgatata gacagatgga cgggtcatga 180

aaatttgttg acatacttta ctaaactgct a 211

<210> 181
<211> 127
<212> DNA
<213> Homo sapiens

<400> 181
ttttttagtt gccaacagtt gtatttttgc tgattattta tgaccttaaa taatatattt 60

tttttttaa gaagacattt tgttacataa ggaaaacttt tttattcaat ggaataaatt 120

atggcat 127

<210> 182

<211> 251

<212> DNA

<213> Homo sapiens

<400> 182

gaacaggagc aactactaaa agagggattt caaaaagaaa gcagaataat gaaaaatgag 60

atacaggatc tccagacgaa aatgagacga cgaaaggcat gtaccataag ctaaagacca 120

gagccttcct gtcaccccta accaaggcat aattgaaaca attttagaat ttggaacaag 180

cgtcactaca tttgataata attagatctt gcatcataac accaaaagtt tataaaggca 240

tgtggtacaa t 251

<210> 183

<211> 248

<212> DNA

<213> Homo sapiens

<400> 183

gcaagcacac gcagaaggca cacagggaca ggacgcccca tggagccccg aattgaccct 60

cactgcctcc aaagcccaga gcctgcctgt cagcccagct ggagggcccg aggctgcagg 120

gtgtcctccc acagtcccgc tgtttcctgt gcattcgtga cccgcttccc tcccaccctg 180

tctcctgtct ccatcgttgg attatctttg aacccccttg tgtggatcat tttgagccgc 240

ctggcctt 248

<210> 184

<211> 71

<212> DNA

<213> Homo sapiens

<400> 184

tattgcccgg ctcctagaat ttatttattt cctgacttac agcaagcgag ttatcgtctt 60

ctgtattttg t 71

<210> 185

<211> 163

<212> DNA

<213> Homo sapiens

<400> 185

ctttcattgg aagttcatca ctgttaggcg ttatcttgag tattataaca aagcaaatcc 60

acaagtattc aatataagat taggaaaaaa attcctgcga tactttgttg tcaaacactt 120

gccactgata gacgttattt tagcttttaa ggcctgtcac att 163

<210> 186

<211> 258

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (61)..(61)

<223> n is a, c, g, or t

<400> 186

atggagtata agctgtttgt agtcaggcct ggagtaatga gggtacctaa atactgaagg 60

nattttatg cagattgact gaaacctgaa tcaaattgga aggagagggc tgaattttga 120

tagactggaa gtattagaga attttctata ctttgactca aggaatggtc aacttttagg 180

aaaagcaact atattatgtc tgttaagatc atagaatctt aacctgaaag ggaccttgga 240

gactatttag tacaactc 258

<210> 187

<211> 89

<212> DNA

<213> Homo sapiens

<400> 187

ttttgaatga actctgagtc agttgaaata gggtaccatc taggtcagtt taagaagagt 60

cagctcagag aaagcaagca taagggaaa 89

<210> 188

<211> 193

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (120)..(125)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (127)..(127)

<223> n is a, c, g, or t

<400> 188

gaagaaagct aactcagtac actaagagtg atttacatgc ctgcaaataa tttgtgtctg 60

gggtcttgac cctccccaaa tgccttgtta tttatatctc tgcttttaga taacagatgn 120

nnnnntntct atgggcttgt accggcagag gcaacagcag gtccttaaga ctccccaggt 180

gccatgatga aaa 193

<210> 189

<211> 173

<212> DNA

<213> Homo sapiens

<400> 189

gtaccatctt acatgcttaa ataactccac atttatttgt gtttattact ctgtgttata 60

aatatacatt tgttggtctc tctcttggat tattttgttt ctttgtcctg taactaccac 120

tgaaagggtg caatacagct ttcttgaaat gtgtattgaa cggatgaatg tat 173

<210> 190

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (41)..(41)

<223> n is a, c, g, or t

<400> 190

gattcggagt cttgattttg caaaggtaac aaaagacatg ntttttttata agacttttca 60

tcataagttt attttattca acagaagcaa aatctaatat aatggaaaaa ataaagatct 120

gtgataaatc tgatctgtgt ggataaacac aattagaaag atttaaagat taagtattga 180

aacaaactac caaaatattt taatactgat ttgtaaaaat ttcagtacat ttttcttctt 240

tgcttaattc tactgggtcc tgttt 265

<210> 191

<211> 217

<212> DNA

<213> Homo sapiens

<400> 191

gttcccagtg acacttcaga gagctggtag ttagtagcat gttgagccag gcctgggtct 60

gtgtctcttt tctctttctc cttagtcttc tcatagcatt aactaatcta ttgggttcat 120

tattggaatt aacctggtgc tggatatttt caaattgtat ctagtgcagc tgattttaac 180

aataactact gtgttcctgg caatagtgtg ttctgat 217

<210> 192

<211> 168

<212> DNA

<213> Homo sapiens

<400> 192

gatacactat acaatcctat gaccaatctc atctacaact ttattcaaat tttatagagg 60

ctgaggtgga aggatcactt gagtttgaaa ccagcctggg caacatagtg agaccccgtc 120

tctacaaaaa gtaggaaaaa aaaaatagcg aggtgttgtg gtacacgc 168

<210> 193

<211> 115

<212> DNA

<213> Homo sapiens

<400> 193

ttctagtaat tatcaattgt cctggtctgg ctgcttagag tatcagtttg ctcaaaattg 60

cttgaatcat taaagcaaat actaattgtg agcattgacc agatcttaag ttaaa 115

<210> 194

<211> 193

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (147)..(147)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (164)..(164)

<223> n is a, c, g, or t

<400> 194

tgtctatggc tgtttttgtg caaaatggca gagttgggtt cagagttagc aacagagagc 60

ttgtagcctg caagcctaga gtatttacta tctggatttc tacaaaaaaa aaaaaaaaaa 120

aatttggggg gggcccgtaa cccaatncgc ccctatagtg agtngtatta caatccacct 180

ggccgcgttt tac 193

<210> 195

<211> 233

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (53)..(53)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (60)..(60)

<223> n is a, c, g, or t

<400> 195

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tagaagaagg gacaaatgca atccgacctt tggatctaca cattcctctt gcttcaatgg 120

gtgtcattta agaattagag gaaaatatta ggagatggag aactagagtt gaggaaacca 180

aaagaagagg agtcacagaa aaccagctct ctctgtgcaa ggcatcttga aag 233

<210> 196

<211> 139

<212> DNA

<213> Homo sapiens

<400> 196

caatattaaa aaaggctctg tatgcatggt ggggctatgt aagtactctt taaaactatg 60

gccctattaa tcttacaagt gttacttatg ggtcaagcaa tgtaaactgt ataaatgtaa 120

aaacaacccc tccacacac 139

<210> 197

<211> 178

<212> DNA

<213> Homo sapiens

<400> 197

ctttggatag aggtgaagaa cttggacatg gctgtttcag gcagctgaag tcaaagggaa 60

tagtaattgg ggaaggggaa gtgggcagaa aggattgttg gccaatatac cttccactcc 120

agtagagagg gaggacttgg ctctgagaac ctccatctga cctaagagga accctcct 178

<210> 198
<211> 163
<212> DNA
<213> Homo sapiens

<400> 198
ctgcaaaagc cgagatgggt tccatgcagt tctccagtgg gacatcagtg cttatccgaa 60

tgtcatcaat ggcaatctct ccggaacgtc ctttccctat cactccctcg aacacaatct 120

ggtactccat gtcgtagctg ggcaggatga tccgcccgtg ctt 163

<210> 199
<211> 104
<212> DNA
<213> Homo sapiens

<400> 199
ttcagcaagg actggtcttt ctatctcttg tactacactg aattcacccc cactgaaaaa 60

gatgagtatg cctgccgtgt gaaccatgtg actttgtcac agcc 104

<210> 200
<211> 222
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<222> (93)..(93)

<223> n is a, c, g, or t

<400> 200

tttcaaagaa ggtcaagtaa cagtcataca gctagaaaag tccctgaaaa aaagaattgt 60

taagaagtat aataaccttt tcaaaaccca cantgcagct tagttttcct ttatttattt 120

gtggtcatga agactatccc catttctcca taaaatcctc cctccatact gctgcattat 180

ggcacaaaag actctaagtg ccaccagaca gaaggaccag ag 222

<210> 201

<211> 267

<212> DNA

<213> Homo sapiens

<400> 201

ttgctttgta tgcactttgt ttttttcttt gggtcttgtt ttttttttcc acttagaaat 60

tgcatttcct gacagaagga ctcaggttgt ctgaagtcac tgcacagtgc atctcagccc 120

acatagtgat ggttcccctg ttcactctac ttagcatgtc cctaccgagt ctcttctcca 180

ctggatggag gaaaaccaag ccgtggcttc ccgctcagcc ctccctgccc ctcccttcaa 240

ccattcccca tgggaaatgt caacaag 267

<210> 202

<211> 108

<212> DNA

<213> Homo sapiens

<400> 202

ggtggaagac cagtaattgc tggaagactg gatttgctgg aagacttgat ttactggaag 60

acttggagct tcttggaaga catggattgt ccggaagaca tggattgt 108

<210> 203

<211> 209

<212> DNA

<213> Homo sapiens

<400> 203

tgggagccgt cttcccagtc caccgtcccc atcgtgggca ttgttgctgg cctggctgtc 60

ctagcagttg tggtcatcgg agctgtggtc gctgctgtga tgtgtaggag gaagagctca 120

ggtggaaaag gagggagcta ctctcaggct gcgtgcagcg acagtgccca gggctctgat 180

gtgtctctca cagcttgaaa agcctgaga 209

<210> 204

<211> 146

<212> DNA

<213> Homo sapiens

<400> 204

gctttgatat ttcaatgtta gcctcaattt ctgaacacca taggtagaat gtaaagcttg 60

tctgatcgtt caaagcatga aatggatact tatatggaaa ttctgctcag atagaatgac 120

agtccgtcaa aacagattgt ttgcaa 146

<210> 205
<211> 48
<212> DNA
<213> Homo sapiens

<400> 205
agtgccaaag gatcttcccc ctgacacaac tctgctagac ctgcaaaa 48

<210> 206
<211> 150
<212> DNA
<213> Homo sapiens

<400> 206
gtgtcatgta agattactgc ttgcctctct aaggaaggtc gtgactgttt aaatagacgg 60

gcaaggtgga acctttgaa agatgagctt ttgaatataa gttgtctgct agatcatggt 120

ttgtattgaa ctaacaaggt ttgcagatct 150

<210> 207
<211> 186
<212> DNA
<213> Homo sapiens

<400> 207
tattcctgca ccaactgacc tgaagttcac tcaggtcaca cccacaagcc tgagcgccca 60

gtggacacca cccaatgttc agctcactgg atatcgagtg cgggtgaccc ccaaggagaa 120

gaccggacca atgaaagaag tcaaccttgc tcctgacagc tcatccgtgg ttgtatcagg 180

acttat 186

<210> 208
<211> 276
<212> DNA
<213> Homo sapiens

<400> 208
aacaatgtca gattttaact atgaaaacga cattaccttg tgcattttta tattgattcc 60

tatttttttt ttaagattaa agtttaaatg ttttccacta gtcatttcac ttctaacttg 120

gtataggaag cttagctctc tacataccta tcatgtgccc tgtatcacag aagattcagg 180

aaaaatgcac ttgggaatca aagaaaatgg aacttctttt tgaaaagaca agcaaccatg 240

ttaactgtat tgacacatcc tcaataaaac ctgttg 276

<210> 209
<211> 158
<212> DNA
<213> Homo sapiens

<400> 209
tttgcattcc tgataattgt atgtattgta taaagaacgt ctgtacattg ggttataaca 60

ctagtatatt taaacttaca ggcttatttg taatgtaaac caccatttta atgtactgta 120

attaacatgg ttataatacg tacaatcctt ccctcatc 158

<210> 210
<211> 225
<212> DNA
<213> Homo sapiens

<400> 210
tagaggcttc ttagattctc ccagcatccg cctttccctt tagccagtct gctgtcctga 60

aacccagaag tgatggagag aaaccaacaa gagatctcga accctgtcta gaaggaatgt 120

atttgttgct aaatttcgta gcactgttta cagttttcct ccatgttatt tatgaatttt 180

atattccgtg aatgtatatt gtcttgtaat gttgcataat gttca 225

<210> 211
<211> 174
<212> DNA
<213> Homo sapiens

<400> 211
gatcagcaaa caggaatacg atgaagccgg gccttccatt gtccaccgca aatgcttcta 60

aaacactttc ctgctcctct ctgtctctag cacacaactg tgaatgtcct gtggaattat 120

gccttcagtt cttttccaaa tcattcctag ccaaagctct gactcgttac ctat 174

<210> 212
<211> 168
<212> DNA
<213> Homo sapiens

<400> 212

atattttaca gggtggagtg tactatatac tattaccttt gaatgtgttt gcagagctag 60

tggatgtgtt tgtctacaag tatgattgct gttacataac accccaaatt aactcccaaa 120

ttaaaacaca gttgtgctgt caatacctca tactgcttta ccttttt 168

<210> 213

<211> 165

<212> DNA

<213> Homo sapiens

<400> 213

ctcagggagc gaacgtggat gaaaaccaca gggattccgg acgccagacc ccattttata 60

cttcactttt ctctacagtg ttgttttgtt gttgttggtt tttatttttt atactttggc 120

cataccacag agctagattg cccaggtctg ggctgaataa aacaa 165

<210> 214

<211> 208

<212> DNA

<213> Homo sapiens

<400> 214

ccaaacactg acattaccta cacttccact acccaaagac aaaatgtgcc cactgtgtgc 60

ttttgagtgt attttctttt agtttgtttt ttgttgggtg catatttatg ataataacaa 120

tgatggactt caattgtact cactgttcta ttgttggttt taattagcag caagttgtga 180

tcactttccc aggtgaataa atcatttc 208

<210> 215
<211> 245
<212> DNA
<213> Homo sapiens

<400> 215
agatgctgtg taactaaact gaaataattc aattacttat tatttagaat gttaaagctt 60

atgatagtct tttctaattc ttaacactca tacttgaaat ctttccgagt ttccccagaa 120

gagaatatgg gatttttttt gacatttttg acccatttaa taatgctctt gtgtttacct 180

agtatatgta gactttgtct tatgtgtcaa aagtcctagg aaagtggttg atgtttctta 240

tagca 245

<210> 216
<211> 257
<212> DNA
<213> Homo sapiens

<400> 216
ttgttactgc tgattcttgt aaatcttttt gcttctactt tcatcttaaa ctaatacgtg 60

ccagatataa ctgtcttgtt tcagtgagag acgccctatt tctatgtcat ttttaatgta 120

tctatttgta caatttttaaa gttcttattt tagtatacgt ataaatatca gtattctgac 180

atgtaagaaa atgttacggc atcacactta tattttatga acattgtact gttgctttaa 240

tatgagcttc aatataa 257

<210> 217
<211> 174
<212> DNA
<213> Homo sapiens

<400> 217
tttcaaatcc ttcatcatgt cagttccaat gaggtgggga tggagaagac aattgttgct 60

tatgaaagaa agctttagct gtctctgttt tgtaagcttt aagcgcaaca tttcttggtt 120

ccaataaagc attttacaag atcttgcatg ctactcttag atagaagatg ggaa 174

<210> 218
<211> 191
<212> DNA
<213> Homo sapiens

<400> 218
taggtggtag atattgaggc caagaatatt gcaaaataca tgaagcttca tgcacttaaa 60

gaagtatttt tagaataaga atttgcatac ttacctagtg aaacttttct agaattattt 120

ttcactctaa gtcatgtatg tttctctttg attatttgca tgttatgttt aataagctac 180

tagcaaaata a 191

<210> 219
<211> 116
<212> DNA
<213> Homo sapiens

<400> 219

tgctgtgaaa gaggctggct acacaatcga atggtttgag gtgatctcgc aaagttattc 60

ttccaccatg gccaacaacg aaggactttt ctccctggtg gcgaggaagc tgagca 116

<210> 220

<211> 181

<212> DNA

<213> Homo sapiens

<400> 220

gagttgtatc gtgtggtgta ttttttaaaa aatttgattt agcattcata ttttccatct 60

tattcccaat taaaagtatg cagattattt gcccaaatct tcttcagatt cagcatttgt 120

tctttgccag tctcattttc atcttcttcc atggttccac agaagctttg tttcttgggc 180

a 181

<210> 221

<211> 248

<212> DNA

<213> Homo sapiens

<400> 221

tgttttcaaa ttgccattgc tactattgct tgtcggtgtt attttatttt attgtttttg 60

actttggaag agatgaactg tgtatttaac ttaagctatt gctcttaaaa ccagggagtc 120

agaatatatt tgtaagttaa atcattggtg ctaataataa atgtggattt tgtattaaaa 180

tatatagaag caatttctgt ttacatgtcc ttgctacttt taaaaacttg catttattcc 240

tcagattt 248

<210> 222
<211> 227
<212> DNA
<213> Homo sapiens

<400> 222
tatttgaact atatgttgaa gacatctacc agtttctcca aatgcctttt ttaaaactca 60

tcacagaaga ttggtgaaaa tgctgagtat gacacttttc ttcttgcatg catgtcagct 120

acataaacag ttttgtacaa tgaaaattac taatttgttt gacattccat gttaaactac 180

ggtcatgttc agcttcattg catgtaatgt agacctagtc catcaga 227

<210> 223
<211> 194
<212> DNA
<213> Homo sapiens

<400> 223
gaagtttaat tcatagtaat ttcactctct gcattgactt atgagataat taatgattaa 60

actattaatg ataaaaataa tgcatttgta ttgttcataa tatcatgtgc acttcaagaa 120

aatggaatgc tactcttttg tggtttacgt gtattatttt caatatctta ataccctaat 180

aaagagtcca taaa 194

<210> 224
<211> 217
<212> DNA
<213> Homo sapiens

<400> 224
tgattagccc caagtagaaa gtcctgtggt tttatgttta atggtaatag ttgatcatat 60

atggcataat tttctatcag cttcctactc agtcactata aacacagact tgaaatagta 120

ctttaaatgt ccaaatacct aaatgtgcta aactggaggt aactatttct aggtagttga 180

atttttgaaa gtcatgatca gccacacaac tgttttg 217

<210> 225
<211> 293
<212> DNA
<213> Homo sapiens

<400> 225
ttgcttttca ttcagatgta tacataaact tatttaaaat gtcatttaag tgaaccattc 60

caaggcataa taaaacccga ggtagcaaat gaaaattaaa gcatttattt tggtagttct 120

tcaataatga tgcgagaaac tgaattccat ccagtagaag catctccttt tgggtaatct 180

gaacaagtgc caacccagat agcaacatcc actaatccag caccaattcc ttcacaaagt 240

ccttccacag aagaagtgcg atgaatatta attgttgaat tcatttcagg gct 293

<210> 226

<211> 95

<212> DNA

<213> Homo sapiens

<400> 226

ctgtcaggaa ctcctcactg tttaaatatt tatttattgt gacaaatgga gctggtttcc 60

tagatatgaa tgatgtttgc aatccccatt ttcct 95

<210> 227

<211> 210

<212> DNA

<213> Homo sapiens

<400> 227

gctgctgtag aatagcacag acgtggatga taaattatcc ccagaagcag catgacagaa 60

tgcctcgggg agcacttgga agggaaattg cagttctgtt gaaatagagg aaaatccctt 120

ggtaaagaca cagcctgtta ggctcgtgtg ggcctccagt atgttcacca ggggaatggc 180

tgggatttct cggcactctg catcatccat 210

<210> 228

<211> 243

<212> DNA

<213> Homo sapiens

<400> 228

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cccacttaaa aagagaatat aacattttat gtcactataa tcttttgttt tttaagttag 120

tgtatatttt gttgtgatta tctttttgtg gtgtgaataa atcttttatc ttgaatgtaa 180

taagaatttg gtggtgtcaa ttgcttattt gttttcccac ggttgtccag caattaataa 240

aac 243

<210> 229
<211> 37
<212> DNA
<213> Homo sapiens

<400> 229
gatgcttaac aaaggttacc ataagccaca aattcat 37

<210> 230
<211> 264
<212> DNA
<213> Homo sapiens

<400> 230
aatgcaaact atcactgtat tttaatattt gttattctct catgaataga aatttatgta 60

gaagcaaaca aaatactttt acccacttaa aaagagaata taacatttta tgtcactata 120

atcttttgtt ttttaagtta gtgtatattt tgttgtgatt atctttttgt ggtgtgaata 180

aatcttttat cttgaatgta ataagaattt ggtggtgtca attgcttatt tgttttccca 240

cggttgtcca gcaattaata aaac 264

<210> 231
<211> 269
<212> DNA
<213> Homo sapiens

<400> 231
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gatcagagat gcaccaccaa gccaagggaa cctgtgtccg gtattcgata ctgcgacttt 120

ctgcctggag tgtatgactg cacatgactc gggggtgggg aaaggggtcg gctgaccatg 180

ctcatctgct ggtccgtggg acggtgccca agccagaggc tgggttcatt tgtgtaacga 240

caataaacgg tacttgtcat ttcgggcaa 269

<210> 232
<211> 179
<212> DNA
<213> Homo sapiens

<400> 232
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tattattctg cagcatgacc tgtgaccagc actgtctcag tttcactttc acatagatgt 120

ccctttcttg gccagttatc ccttcctttt agcctagttc atccaatcct cactgggtg 179

<210> 233
<211> 220
<212> DNA
<213> Homo sapiens

<400> 233

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tgttgcactt ttgaatgtcc aaaatttata ttttagaaat aataaaaaga aagatactta 120

catgttccca aaacaatggt gtggtgaatg tgtgagaaaa actaacttga tagggtctac 180

caatacaaaa tgtattacga atgcccctgt tcatgttttt 220

<210> 234

<211> 127

<212> DNA

<213> Homo sapiens

<400> 234

gggcccctaa tatcccagtt taatattcca ataccctaga agaaaacccg agggacagca 60

gattccacag gacacgaagg ctgcccctgt aaggtttcaa tgcatacaat aaaagagctt 120

tatccct 127

<210> 235

<211> 225

<212> DNA

<213> Homo sapiens

<400> 235

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gacaccatca accgccagag tcccagacac cggttttcct agaagcccct caccccccact 120

ggcccactgg tggctaggtc tccccttatc cttctggtcc agcgcaagga ggggctgctt 180

ctgaggtcgg tggctgtctt tccattaaag aaacaccgtg caacg 225

<210> 236
<211> 41
<212> DNA
<213> Homo sapiens

<400> 236
ttaatctatg tgcaccgttg ggaccaatgc cttaattaaa g 41

<210> 237
<211> 160
<212> DNA
<213> Homo sapiens

<400> 237
cttctcactg gacagcacta gttttttgcc tgggaagtcg tggacagtaa cagtgactgg 60

aacatcccct tgcgcgtcgt gggcctccag caccatggtc tcctcgctct ccagccgcaa 120

gatgttgggg gtgatgatag agtacatggg actccccaga 160

<210> 238
<211> 179
<212> DNA
<213> Homo sapiens

<400> 238
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taacagtgac tggaacatcc ccttgcgcgt cgtgggcctc cagcaccatg gtctcctcgc 120

tctccagccg caagatgttg ggggtgatga tagagtacat gggactcccc agagccagg 179

<210> 239
<211> 164
<212> DNA
<213> Homo sapiens

<400> 239
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ctggtcccga cgatgctgtg ctctgcctcc tcctgctgct gctgacaacc aagccctccc 120

agaatttaaa tgctgctgca gacatcctcc accaacacag ggag 164

<210> 240
<211> 167
<212> DNA
<213> Homo sapiens

<400> 240
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tgcccattgc tcagccatgt gatgttgacc acaggaggaa agatgttgtc cacaagacag 120

atgaggatgt tgggctgacc cagtgtcacg ggagacttgg aaaacac 167

<210> 241
<211> 183

<212> DNA

<213> Homo sapiens

<400> 241

ggattataat atcctcactg gccacaatct gtaaaagtcg atactggcac ttttttttgcc 60

ccctcaaagg aaatatgcta atagacagcc cctttgcaaa tataattcct ccttcccaac 120

ccttcaaatt gctaaggccc cactggtcag caccttccct ttcgagtcca ggactactgt 180

tct 183

<210> 242

<211> 237

<212> DNA

<213> Homo sapiens

<400> 242

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cagacggtag tttccaagac cgtttcaggg aattcgagga ttccacctta aaacctaaca 120

gaaaaaaacc cactgaaaat attatcatag acctggacaa agaggacaag gatttaatat 180

tgacaattac agagagtacc atccttgaaa ttctacctga gctgacatcg gataaaa 237

<210> 243

<211> 197

<212> DNA

<213> Homo sapiens

<400> 243

agtgctaagg agtatagcag atgacttata tgtgtgttgg ctgggagaat atcatcttaa 60

agtgagagtg atgttgtgga gacagttgaa atgtcagtgc tagagcctct gtggtgtgaa 120

tgggcacgtt aggttgttgc attagaaagt gactgtttct gacagaaatt tgtagctttg 180

tgcaaactca cccacca 197

<210> 244
<211> 131
<212> DNA
<213> Homo sapiens

<400> 244
ctacttcccc gaaccggtga cggtgtcgtg gaactcaggc gccctgacca gcggcgtgca 60

caccttcccg gctgtcctac agtcctcagg actctactcc ctcagcagcg tggtgaccgt 120

gccctccagc a 131

<210> 245
<211> 95
<212> DNA
<213> Homo sapiens

<400> 245
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tgagcgcaaa tgttgtgtcg agtgcccacc gtgcc 95

<210> 246

<211> 131

<212> DNA

<213> Homo sapiens

<400> 246

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actttattgg ttgttttgtt tagtgccccg ttaattaagc cttgagttcg gttatcctgc 120

agtggtgctg a 131

<210> 247

<211> 38

<212> DNA

<213> Homo sapiens

<400> 247

tttcccccac tgtctggaca ctggtgaatg acattaga 38

<210> 248

<211> 173

<212> DNA

<213> Homo sapiens

<400> 248

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tccccttttcc cccactgtct ggacactggt gaatgacatt agaagagacc caccccattc 120

aagtcccctc actggctcct tttctcccca ctacaccact tccaaaatct gaa 173

<210> 249

<211> 298

<212> DNA

<213> Homo sapiens

<400> 249

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agactaatca aatagacatg gcattttaat ctcaaagtgc aaaatcatct aactgaaaat 120

gacggcattg aaaaattcca gtggttaaaa atgaatcaaa acttcattac gcaggcagtg 180

gaagtgtgtt gaaagattta ccaggggtgt caagttttag acactcagaa aggcaccatt 240

ctagccatct tgattggata acatgtatat acttatgtcc ctacgatatt caaaagat 298

<210> 250

<211> 145

<212> DNA

<213> Homo sapiens

<400> 250

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cctctgtctt caagtaccca ctgaggaatc tgcagcctgc atctgagtac accgtattcc 120

tcgtggccat aaagggcaac caaga 145

<210> 251

<211> 111

<212> DNA

<213> Homo sapiens

<400> 251

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gtttacttgt ggttgcccta tcctatgctg cataaatcct tgaaaggaaa g 111

<210> 252

<211> 137

<212> DNA

<213> Homo sapiens

<400> 252

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gtttacttgt ggttgcccta tcctatgctg cataaatcct tgaaaggaaa ggttttagtt 120

agttgctttc tttcttc 137

<210> 253

<211> 203

<212> DNA

<213> Homo sapiens

<400> 253

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cagaagccat ttcaggagta cctggaggct caacggcaca agcttcacca caaaagcgaa 120

atggacacac cacaggtaag actttaatcc ggtttcttct cccctctggg aagtttcggg 180

ctgaaattac attcacagct ctc 203

<210> 254
<211> 243
<212> DNA
<213> Homo sapiens

<400> 254
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ctgaccccgg cataagtcca tctctgcaga agccatttca ggagtacctg gaggctcaac 120

ggcacaagct tcaccacaaa agcgaaatgg acacaccaca ggtaagactt taatccggtt 180

tcttctcccc tctgggaagt ttcgggctga aattacattc acagctctca ctcacatttt 240

tag 243

<210> 255
<211> 292
<212> DNA
<213> Homo sapiens

<400> 255
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tgcagttagc tgaggaacca cggtaggttt taaaaaaaaa gactcgggga gagaaatagc 120

acattattta catgactgga caaggacaga aggtgggagg aagcccctgt cactccttgg 180

gacctgggat ctgagcacaa agctgagtgg gaaacagtgg gggctccgaa gcgcccagca 240

gggccagcgc cctcctttct agaccccgac tgcccttggt cttctgccct tt 292

<210> 256
<211> 156
<212> DNA
<213> Homo sapiens

<400> 256
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aggcggaggc ggaggaggcc gctggagatg gtgctgagga cgaggaggcc ggtgggttgg 120

tcatgctcac taggccactg accaagctga agaggg 156

<210> 257
<211> 249
<212> DNA
<213> Homo sapiens

<220>
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<222> (142)..(142)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (188)..(188)
<223> n is a, c, g, or t

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atacagaact cattcaatca tataaaaata aacacaaatt tacattgact catcaactat 120

acaatttaaa aaggcacttg anaggggtat tgtattattg catttgtggt atgcatttga 180

aatagttnta agtacattaa tgaaatttgt aagaattcct cttttgcact tattcccatc 240

tttaattaa 249

<210> 258
<211> 62
<212> DNA
<213> Homo sapiens

<400> 258
gtccccaaat gacccacatg attcaaagtg caaatttact ccaacctgca agagaaaacg 60

aa 62

<210> 259
<211> 126
<212> DNA
<213> Homo sapiens

<400> 259
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agaaacatag agttgggcaa tatacttcat cctacccatc ccacccaaat cttactctac 120

tcatct 126

<210> 260
<211> 149

<212> DNA

<213> Homo sapiens

<400> 260

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tgttagaatc aaagaaacat agagttgggc aatatacttc atcctaccca tcccacccaa 120

atcttactct actcatctca ttctcatta 149

<210> 261

<211> 163

<212> DNA

<213> Homo sapiens

<400> 261

agaattaact gactatggtt ttgcaggcca gtttgatccc agtattttta tttctaaagg 60

ggttcttata gttcctctga ttgttaccat tttaaaatag agaaagtcca tagtgatgcc 120

tttccttca gtggctgatt ggcacgacct cttgagaatg cat 163

<210> 262

<211> 269

<212> DNA

<213> Homo sapiens

<400> 262

atttgcattt taccatgggt cctcaataaa taaatagaat gttgtttttt gtattttaag 60

ttttttttg tttttcccct cagaggaagg atgaaaaaaa gaattaactg actatggttt 120

tgcaggccag tttgatccca gtatttttat ttctaaaggg gttcttatag ttcctctgat 180

tgttaccatt ttaaaataga gaaagtccat agtgatgcct ttcctttcag tggctgattg 240

gcacgacctc ttgagaatgc atgcatgaa 269

<210> 263
<211> 105
<212> DNA
<213> Homo sapiens

<400> 263
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catagtgttt catttacatg tgtgtgaaac ctgggtgaag agcca 105

<210> 264
<211> 174
<212> DNA
<213> Homo sapiens

<400> 264
ccatcagttt ttccaatgtg aatggactgg ttcatatcac accatattta gagatacaag 60

gtgattataa ctaacgtgtc tacaagacat actgggtcaa acaatgtgat caatccaaag 120

ggtatctttt taaaaagaat ttaagtactc agctgcaaag ataagttcac taat 174

<210> 265
<211> 218
<212> DNA

<213> Homo sapiens

<400> 265

gtacatggtc tggagtaacc tttatatgaa gtggctgccc aggtgtgtgg cttaggacta 60

gatctccagg ttgcacaaag ttggcattgg gtttagtttg catttttcca ttctgaagat 120

ggccctcctt ggatttcatc caggaaatcc atagctttct gttaacagga catggagtag 180

actggctgca tttgaaggac agcacagatc cctcatca 218

<210> 266

<211> 103

<212> DNA

<213> Homo sapiens

<400> 266

aaaccttgtt ttattcagcc cagacctggg agatctagct ctgtggtatg gccaaagtat 60

aaaaaataaa aaccaacaac aacaaaacaa cactgtagag aaa 103

<210> 267

<211> 194

<212> DNA

<213> Homo sapiens

<400> 267

tcaaactcag gtatgtgaca ctctacagtt caatgctagc acacctgtgt gaggcttaac 60

aacatgagga actgatagcc agtgatacac aaatccagca cttcctctcc atttactctg 120

tcaggctgta tatggggagc aacacatatg gctttgtggc agccagaaag tgaaggtctt 180

tttaggaggt gaca 194

<210> 268
<211> 61
<212> DNA
<213> Homo sapiens

<400> 268
ttcccagcac cggaaggtct cagacttcat attccagcat aaacacagtg ctcccctccc 60

c 61

<210> 269
<211> 268
<212> DNA
<213> Homo sapiens

<400> 269
gtaaagcttt ggcacataca gtataaaaaa taatcaccca ccataattat accaaattcc 60

tcttatcaac tgcatactaa gtgttttcaa tacaattttt tccgtataaa aatactggga 120

aaaattgata aataacaggt aagagaaaga tatttctagg caattactag gatcatttgg 180

aaaaagtgag tactgtggat atttaaaata tcacagtaac aagatcatgc ttgttcctac 240

agtattgcgg gccagacact taagtgaa 268

<210> 270
<211> 37

<212> DNA

<213> Homo sapiens

<400> 270

tgggctggag ccgcacacgc tctcctccca tgttaaa 37

<210> 271

<211> 112

<212> DNA

<213> Homo sapiens

<400> 271

atagatgaca taagttacca tactcaaatg taagataggg agaggtagaa gaaatagctg 60

agaacttgaa aagatgtact gttattgtca acaaaccaat gtcttctccc tt 112

<210> 272

<211> 158

<212> DNA

<213> Homo sapiens

<400> 272

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agtgttaagg cgtgaagggc gaggccagac agctggag 158

<210> 273

<211> 75

<212> DNA

<213> Homo sapiens

<400> 273

catctctgac tttaatggct taagcaagaa catggtttcc gtggctcccc ctggactgaa 60

tgctggagga tatat 75

<210> 274

<211> 182

<212> DNA

<213> Homo sapiens

<400> 274

tgagtaggtg agtttattgg gacttacaca caggtcaatc ctgggcggcg acaagacagc 60

tctagagatc tgagcttcct cccaatgcta aactgctttc atgctaattt tctgactgtt 120

tacttaccgg gtaagagcga tgggactgtt ttcattggtt ggttctcaca tactctctgg 180

ga 182

<210> 275

<211> 121

<212> DNA

<213> Homo sapiens

<400> 275

cctggatctc acagacgttg ggcttttcaa ctgcagactt caatgctttg tttccaggtg 60

gcaggagaaa catcacatct cattaccaac aattatttcc ctcaaaggta agtaattgta 120

t 121

<210> 276
<211> 177
<212> DNA
<213> Homo sapiens

<400> 276
cagtggtttg caagcatggt ttcctggatc tcacagacgt tgggcttttc aactgcagac 60

ttcaatgctt tgtttccagg tggcaggaga aacatcacat ctcattacca acaattattt 120

ccctcaaagg taagtaattg tatctaactt caatattcct ttccctggcc aaaaatt 177

<210> 277
<211> 237
<212> DNA
<213> Homo sapiens

<400> 277
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aagataaata atatccctgc attatcaaaa taaagtagca gacctctcaa ttcacaatga 120

gttaactgat aaaacaaaac agaagtcaga caatgtttta aattgaatga tcatgtaaat 180

attacacatc aaaccaatga catgggaaaa tgggagcttc taatgaggac aaacaaa 237

<210> 278
<211> 43
<212> DNA
<213> Homo sapiens

<400> 278

caatggttga gcccctgtca agtgccagtc atgatagtag taa 43

<210> 279

<211> 198

<212> DNA

<213> Homo sapiens

<400> 279

gggatttctt ggtttgtgaa aacaggagag gagaaatatc tcatacaagt gaaaggatac 60

tggagagaga aattacccat ttctaaaaaa aaaccacact ctgtcgtatc tgtgttaatg 120

ttttctagca tgtactctgg tttcaacaga cacaaattta tatgttaacc cagttttctt 180

gccgttctgt aagtgttt 198

<210> 280

<211> 70

<212> DNA

<213> Homo sapiens

<400> 280

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tgatttaaat 70

<210> 281

<211> 94

<212> DNA

<213> Homo sapiens

<400> 281

gcctcccatt caagtgaagt tataatttac actgagggtt tcaaaattcg actagaagtg 60

gagatatatt atttatttat gcactgtact gtat 94

<210> 282

<211> 165

<212> DNA

<213> Homo sapiens

<400> 282

tttcctgccc caaggcagat ccacatcacc gaagctccct agaggggcaa aagatggagt 60

gagccacagg aagtttgggg cgtggtgagt tggaatgata cgtccatttc tctatgaaat 120

atttgctact agactgttca tttctctctg acatgtttgt tgaat 165

<210> 283

<211> 208

<212> DNA

<213> Homo sapiens

<400> 283

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gtttcctcat ctgtccagtg ggtaggttgg actggaaaat ctctttttga ctcttgcaat 120

ccacaatctg acattctcag gaagccccca agttgatatt tctatttcct ggaatggttg 180

gattttagtt acagctgtga tttggaag 208

<210> 284
<211> 227
<212> DNA
<213> Homo sapiens

<400> 284
agcccaactt cttacccgaa agcatcactg ccttggcccc tccctcccgg ctgcccccat 60

cacctctact gtctcctccc tgggctaagc aggggagaag cgggctgggg gtagcctgga 120

tgtgggccaa gtccactgtc ctccttggcg gcaaaagccc attgaagaag aaccagccca 180

gcctgccccc tatcttgtcc tggaatattt ttggggttgg aactcaa 227

<210> 285
<211> 57
<212> DNA
<213> Homo sapiens

<400> 285
tattgaggac ccatggtaaa atgcaaatag atccggtgtc taaatgcatt catattt 57

<210> 286
<211> 135
<212> DNA
<213> Homo sapiens

<400> 286
tacccgggaa agtacgtcta gattgtgtgg tttgcctcat tgtgctattt gcccactttc 60

cttccctgaa gaaatatctg tgaaccttct ttctgttcag tcctaaaatt cgaaataaag 120

tgagactatg gttca 135

<210> 287

<211> 247

<212> DNA

<213> Homo sapiens

<400> 287

caaactattt ttccacctcc aaaagaaatt aacacatgga cattttaaag tctttagtat 60

aaagaaaatt tgtattcaat gtgttaagca ttaacatgta ttttatttgt gtatccactc 120

catctgattt ttctgagcca ttttgatttg ttccttcatt aaaaaaaatc tcttaaagtt 180

atttagtgtc taaaagtgac tgacttaaat tatgtggtgc caatctgtaa tgtctttgaa 240

ttccttt 247

<210> 288

<211> 174

<212> DNA

<213> Homo sapiens

<400> 288

ttgcatggag acttgaggag ggagggcttg aggttggtga ggttaggtgc gtgtttcctg 60

tgcaagtcag gacatcagtc tgattaaagg tggtgccaat ttatttacat ttaaacttgt 120

cagggtataa aatgacatcc cattaattat attgttaatc aatcacgtgt atag 174

<210> 289
<211> 126
<212> DNA
<213> Homo sapiens

<400> 289
ggatccaaga gctgactatg cctgcattgc tgagaacaaa cccacctgag caccccagac 60

accttcctca acccaggcgg gtggacaggg tccccctgtg gtccagccag taaaaaccat 120

ggtccc 126

<210> 290
<211> 132
<212> DNA
<213> Homo sapiens

<400> 290
acagcccacc cttgtgtcca ctgtgacccc tgttcccatg ctgacctgtg tttcctcccc 60

agtcatcttt cttgttccag agaggtgggg ctggatgtct ccatctctgt ctcaacttta 120

cgtgcactga gc 132

<210> 291
<211> 173
<212> DNA
<213> Homo sapiens

<400> 291
aaatgctcct tgaatattaa aaggttgtaa aaatagtgca tgttatgtga tttcaatttt 60

gtttttaaa atatgggtgt atgcttgtat acgtagagca gataaaaaag acggaaggca 120

tactaaaaaa tgttgagtgg ttatctttgt atggtggaac aaagtcactg taa 173

<210> 292
<211> 274
<212> DNA
<213> Homo sapiens

<400> 292
ggcacgtggc ttcatgtcag taagcaagat gcttcttaat aacccacctt ctgccccact 60

ctattcctta tcctgctgcc cctgtagggg tcaagggccc tccgtctaca ccctcttctt 120

ctcctccatc ctttattcag agtcatctcg cccttcccca tgggtggggg aacctgtgtt 180

tgtttgtgtg cacatgtaaa ttttaaatat tttaagcaga aagtccttac ctcctgtaac 240

acatcaataa agtacaatca ttgtgagccc tttc 274

<210> 293
<211> 185
<212> DNA
<213> Homo sapiens

<400> 293
attcactttt gttaacagta tttctctttt attctgttat atagtggatg atatacacag 60

tggcaaaaca aaagtacatt gcttaaaata tatagtgaaa aatgtcacta tatcttccca 120

tttaacattg tttttgtata ttgggtgtag atttctgaca tcaaaacttg gacccttgga 180

aaaca 185

<210> 294
<211> 42
<212> DNA
<213> Homo sapiens

<400> 294
tcatgacgag ttaatgcatg tccgtggttg ggtgcacctg ta 42

<210> 295
<211> 250
<212> DNA
<213> Homo sapiens

<400> 295
gatttctcat gacgagttaa tgcatgtccg tggttgggtg cacctgtagt tctgtttatt 60

ggtcagtgga aatgaaaaaa aaaaaaaaaa aaagtctgcg ttcattgcag ttccagtttc 120

tcttccattc tgtgtcacag acaccaacac accactcatt ggaaaatgga aaaaaaaaac 180

aaaaaaaaaa caaaaaaatg tacaatggat gcattgaaat tatatgtaat tgtataaatg 240

gtgcaacagt 250

<210> 296
<211> 247
<212> DNA
<213> Homo sapiens

<400> 296

ggcaggcttc tctgtagaac cccaggggct tcggcccaga ccacagcgtc ttgccctgag 60

cctagagcag ggagtcccga acttctgcat tcacagacca cctccacaat tgttataacc 120

aaaggcctcc tgttctgtta tttcacttaa atcaacatgc tattttgttt tcactcactt 180

ctgactttag cctcgtgctg agccgtgtat ccatgcagtc atgttcacgt gctagttacg 240

tttttct 247

<210> 297

<211> 112

<212> DNA

<213> Homo sapiens

<400> 297

attttagtat ggtgtctgtt tatgtaactc tgacttgctg gaaaagttga aactccaaat 60

aatctgaaac tagaaaagaa atagcacata attactacct tccccttggc gg 112

<210> 298

<211> 278

<212> DNA

<213> Homo sapiens

<400> 298

aaatggcttc cgatttccag cttgggcctg gggattggag atgtccccac tgagagtagg 60

gcacaagtga ggaaatggtt tggagaggaa gatgataagt tacatcatgg atgtgctgag 120

tctgagttgc ctatgggact tggaatgggg ggtggcaaaa ggtgtgtgat cttgagcaag 180

atattcaact cttctgggcc ttggtcttct catttgtaaa acggtgataa gaatattact 240

tcccatttgt gttgctgtga atattaaatg cgctacca 278

<210> 299
<211> 137
<212> DNA
<213> Homo sapiens

<400> 299
gtgggcagca cttagattcg gagccatgga tagtccggag tccaaggtct ctgggtgagc 60

agacagtcgg ccaaaggcca gcctggagtc aaagagacca gacccctgct tagattgcca 120

tactcgcacc attccaa 137

<210> 300
<211> 252
<212> DNA
<213> Homo sapiens

<400> 300
agttcggcaa aggtgtccta gaaatggcca gagtttttga cagacagagt gtagtctcct 60

tattagaaga aaggaaaaaa aagcagaggc caaagaagtt ttgtgtttgc tgatgagagc 120

cccactcatt tgcgaaacgc acgtaaaaca aagtgaaccg tgactgttaa actagggatg 180

ggaaattttg catcttgggg ggctgtacat ttatttattt agttgaagat tcactgatcc 240

cactttgaaa ta 252

<210> 301
<211> 106
<212> DNA
<213> Homo sapiens

<400> 301
gtgcatgtgt gtgctgtgtc tttgtgtgtg tgctgtgtgc tagtgtgtgt gctgtgtgtg 60

catgtgtgtg cgtgtgctgt gcgtttgtgt gctgtgtgct cgtgtg 106

<210> 302
<211> 294
<212> DNA
<213> Homo sapiens

<400> 302
tgggaagcgg cgagatcctc gggctggggg tgcccacgtt tgctacctcc ccctgtgaaa 60

tcgctggtgc tcacaattgt ctttcacagt gtatgtgatt tttttaagga aaaaaaaaaa 120

atccctattt aagattttga aggtgctacc attattttgc cacagacttt gaagaaactt 180

ttggatgtgg ggcatcatcc gcatctttct ctctcctcca aatgacaaag tttggggaat 240

ttttgaattt tcctagcatc gcccttgtgc tcatcaggta atctgctaag gagg 294

<210> 303
<211> 238
<212> DNA

<213> Homo sapiens

<400> 303

acccatcctg ttcgtgaata ggtctcaggg gttgggggag ggactgccag atttggacac 60

tatatttttt tttaaattca acttgaagat gtgtatttcc cctgaccttc aaaaaatgtt 120

ccaaggtaag cctcgtaaag gtcatcccac catcaccaaa gcctccgttt ttaacaacct 180

ccaacacgat ccatttagag gccaaatgtc attctgcagg tgccttcccg atggatta 238

<210> 304

<211> 258

<212> DNA

<213> Homo sapiens

<400> 304

cattctttcc tccacaggat tgctttgtcc atctcctgct ttcatttcaa gtgcataaac 60

aaaacctcaa agggcctggg aaggtgaggc aggccagagt ctgtgttctg tgttgagtgt 120

caagctattt gttaagaagg tttgcaacag gcctttggtg tgggctttgc cagagactgt 180

tttgaacact ttgcttgaga tccgtgccct gtaaaatgga tatgatgttt tactgatgtc 240

tgtaatacat ttgtaaac 258

<210> 305

<211> 85

<212> DNA

<213> Homo sapiens

<400> 305

ttaagcgcat tagaaaacaa ttgtttgtaa tggaatcaaa gtgtttccct ggacagtttg 60

atgtgcttat ggttgagatt tataa 85

<210> 306

<211> 299

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (127)..(127)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (194)..(194)

<223> n is a, c, g, or t

<400> 306

atttgcaaca gcctagtgga tttggtaggg tcctgaatca tctctataag gcaaacaagg 60

aaattgtaac acaaagaaat aaacatattg aatataattg ctattctgta agacatacag 120

tctgtgnaag atgtatctta tttacagaga cattttgaa aattaaaata ttaaatactt 180

tttgttatat aganacaatg atctggaagt ataaaaagaa aaatattatc ttgttgatgt 240

aaatatgata tccttatata tattagaatc caataagata tcatgggcgc aatattagc 299

<210> 307

<211> 229

<212> DNA

<213> Homo sapiens

<400> 307

gatggctggg agataagtcc ttgaatggag gaaccaagag gtgagttaga ggcataaact 60

aaggaatttc agttagtagg gtttaggagt gacagtctag aatgagtgga gactaggaga 120

ttcatcttga tgcaagcata cttagatcca tgttactcag gatagcatag gtgagaggag 180

agctggtaga attttaatgt catacctggg tagtacaact ggttattat 229

<210> 308

<211> 213

<212> DNA

<213> Homo sapiens

<400> 308

tattttccgg ttgaccccag aattcattag atttttttaa aaaacaattt caaaatagtt 60

gctgttttaa attagttgca tccagttcat atcaatgttt gcatgctttt tagtctttgt 120

tatttattga aaacctttgg tacctaaact taagtttgat tgtttcagtg tgtacttggt 180

aaatatgtca gtggcctttt aactaaacat caa 213

<210> 309

<211> 174

<212> DNA

<213> Homo sapiens

<400> 309
caccccagga ctttatcaac ttgttcaagt tctgaatccc agcacatgac aacacttcag 60

aagggtcccc ctgctgactg gagagctggg aatatggcat ttggacactt catttgtaaa 120

tagtgtacat tttaaacatt ggctcgaaac ttcagagata agtcatggag agga 174

<210> 310
<211> 32
<212> DNA
<213> Homo sapiens

<400> 310
atggacaatt ctgtacccca ataatcagaa ca 32

<210> 311
<211> 166
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (101)..(101)
<223> n is a, c, g, or t

<400> 311
agagaggttt gtcccatata tcttgttcca gcagccatat atcttgtggt ctacagcctg 60

aagcatgatt tcccttgaag tcttggggtt gtttaaagga nagtcccttc aatataaaac 120

ctctgaaata ttagtgagaa tggctcacta atgtgaacaa tgttta 166

<210> 312
<211> 213
<212> DNA
<213> Homo sapiens

<400> 312
tacaaagaat atttgggccc agtgctacag aaaaacatga actacatctt atcgtcacaa 60

aatagccatt ataaaatgaa ttttgcagcc tctgtttttt tgaactttga aataaaatgt 120

tcagacaaat attcaacttt ttaaaaacct ccattcattg atagcctgag aaatgtacaa 180

tgaacatgtt taggcagact gctagtattt tgc 213

<210> 313
<211> 225
<212> DNA
<213> Homo sapiens

<400> 313
cctccaccaa tcatactttg acatttatct atttccttct ccacttatgg atgtaattgg 60

cttgctatag aaactacagt tcagatgctt tgaatgtatg aactacaatg aacaataaag 120

tcctcttctt ttgaagcata ttttggcttc agctttaaga taatcttatg acaagaaggg 180

tcacactgat tcacttaata aattccattc ttacctaaca caagg 225

<210> 314

<211> 259

<212> DNA

<213> Homo sapiens

<400> 314

gctggtgtgt ggatcggatg ggcaagtccc tgccagggtc tccagatggc aatggaagct 60

cctcctgccc cactgggagt agcggctaaa gctgggggat agaggggctg cagggccact 120

ggaaggaaca tggagctgtc atcactcaac aaaaaaccga ggccctcaat ccaccttcag 180

gccccgcccc atgggccccc caccgctggt tggaaagagt gttggtgttg gctggggtgt 240

caataaagct gtgcttggg 259

<210> 315

<211> 217

<212> DNA

<213> Homo sapiens

<400> 315

gaccccagtg gaaaacaaag ccaaacaaaa ctgaaccaca aaaaaaaggc tggtgttcac 60

caaaaccaaa cttgttcatt tagataattt gaaaaagttc catagaaaag gcgtgcagta 120

ctaagggaac aatccatgtg attaatgttt tcattatgtt catgtaagaa gccccttatt 180

tttagccata attttgcata ctgaaaatcc aataatc 217

<210> 316

<211> 243

<212> DNA

<213> Homo sapiens

<400> 316

gagtaaaaag aacccttttgc tgagtaacca agcctttaat tttgtgtttt tatgaaagga 60

attaaaatac ccacgataaa tatttaccac aacctgtgtc agataaatgg gaaattaaac 120

acagattgta caatgtgagc ttgggagtta atggcccaga ttttactgtt aggcagtaag 180

agttggagta ggtagtcttg ttatcatgag aagaaccttg aacagataca actaatttac 240

ata 243

<210> 317

<211> 172

<212> DNA

<213> Homo sapiens

<400> 317

aacacccata atcaatcaca gagataacca ctgttcataa ttccttccag tcttcttact 60

tggcacatat acatttgtct ttctttatat atgacatatg gatattttac aaagttagga 120

tcctactcta tgcactgctt ggtgatcgga tctattcaat gtacaaaata tt 172

<210> 318

<211> 100

<212> DNA

<213> Homo sapiens

<400> 318

ttttctaacc ttgattgacc atgggcaaat gaaactgcag aaagtgaaac tgcggatagg 60

ggggatgact gtattcaata gattccgaca ttatgtctgc 100

<210> 319
<211> 32
<212> DNA
<213> Homo sapiens

<400> 319
ttataatgag tgcgatatat gttgtcgagg ct 32

<210> 320
<211> 210
<212> DNA
<213> Homo sapiens

<400> 320
gttttgatgc tgtgtgcttt tggctgggcc tcgggctcca ggccctggga ccccttgcca 60

gggagacccc cgaacctttg tgccaggaca cctcctggtc ccctgcacct ttcctgttcg 120

gtttagaccc ccaaactgga gggggcatgg agaaccgtag agcgcaggaa cgggtgggta 180

attttagaga caaaagccaa ttaaagtcca 210

<210> 321
<211> 115
<212> DNA
<213> Homo sapiens

<400> 321

ttcattgagg ttcgtgtgtg ctgtgttcgc gtgtgtgtgc tgtgtgtgca tgtgtgtgct 60

gtgtcttagt gtgtgtgctg tgtgctagtg tgtgtgctgt ggggtaccga gctcg 115

<210> 322
<211> 241
<212> DNA
<213> Homo sapiens

<400> 322
ttcatcatat ccaagttcac tctgtcttcc tgagcagtgg aagatcatat tgctgtaact 60

tcttttaagt agttgatgtg gaaaacattt taaagtgaat ttgtcaaaat gctggttttg 120

tgttttatcc aacttttgtg catatatata aagtatgtca tggcatggtt tgcttaggag 180

ttcagagttc cttcatcatc gaaatagtga ttaagtgatc ccagaacaag gaatactaga 240

g 241

<210> 323
<211> 148
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (91)..(93)

<223> n is a, c, g, or t

<400> 323

gtcattgata cctgtagtaa gttgacaatg tggtgaaatt tcaaaattat atgtaacttc 60

tactagtttt actttctccc ccaagtctnt nnnaactcat gatttttaca cacacaatcc 120

agaacttatt atatagcctc taagtctt 148

<210> 324

<211> 198

<212> DNA

<213> Homo sapiens

<400> 324

gattttcttt tgacacagct ccaaggccac cagctatgca aggccacaag ttatgcacta 60

tatgattaac tgcttttgtt ttacttttgt aagtccactt ataaaaaccc tgctctgtct 120

ttgtttaatg ctcagctttt tggatttgaa tccactcagc cggtgcacac cttaaaataa 180

acatcctcct gtactctc 198

<210> 325

<211> 269

<212> DNA

<213> Homo sapiens

<400> 325

agacctagaa ggttgtagat gggaaatcag gaatgatttg aactgataaa gatttcagac 60

tcataagaac acattttata aatgttaaac acaaaaacta catgactgaa gatagaagag 120

aatgcgatgg attttattac acatggtgga agagagaaga ggcgtgtagg tttgcaaaca 180

aagttaagaa ataggaaact gaatttttca ttgtacagaa aatgtatctc ttggggaggg 240

cctgtgtacc cccattctct gattataaa 269

<210> 326
<211> 243
<212> DNA
<213> Homo sapiens

<400> 326
ggatttttc ccctgtagta gtgaggtaac atgcttgaat gtcactgtga tatttatttc 60

ctctttgttc agttgttttt gaattcctgt taagtacatg ttttaatact ttgagcgatt 120

taagatactt ttctttttgc ccatcatttt ccccaaggaa tgtaattcac ataaatccaa 180

agctcatttt ttttttatt gtacacaagt agtataatgt ttgcttttcc caataaacct 240

caa 243

<210> 327
<211> 178
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<222> (84)..(84)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (89)..(89)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (123)..(123)

<223> n is a, c, g, or t

<400> 327

gagacaagga cagacaaatt ttctggctgt ccccatttct cctgggggag gggtttgggg 60

ctggtttgac tttaattggt gggngggtng tttctgccgc tctgtttgct gcagtccccg 120

tgncctgctt ggggactgag aaatttgagc caggtatcca gagccacagc ccatcttg 178

<210> 328

<211> 238

<212> DNA

<213> Homo sapiens

<400> 328

agttggtgcc ctgattccat ttttctcaag ttgtagaaga aacaaactaa tttacggtag 60

gagaaattca aattcagatt ctccccatcc ccaccagtta cctttggttg gtggagaggg 120

ggagaattgg caggaaaggg gcacaaagaa acttttggg gtgatggaaa tattttgtac 180

cttgctttag atgttggtca gatggaatat acgtttgtgg aaacctgcca aactgtac 238

<210> 329
<211> 155
<212> DNA
<213> Homo sapiens

<400> 329
aaacattacc gggcatggta gcttgcacct gcagtcccag ctacttggga gactgaggtg 60

agaggatcac ctgagtgtag gaggtgaaag cctcaccgaa ctatgactga accactgcac 120

tccagcgtgg gcacttggca ccagagcaag attct 155

<210> 330
<211> 47
<212> DNA
<213> Homo sapiens

<400> 330
gggatgcata aagtatgagt gcctttagg atgggaattg agatgta 47

<210> 331
<211> 235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (157)..(157)

<223> n is a, c, g, or t

<400> 331

aggatttccc aaaccagccg aggccccagc acccgccgtc tccccagaag ccccctcctc 60

cttcccccat gggtcatatg ttgaaagtct attttaaaaa ctatgttcct tgccgtagat 120

tgcagagcta atttatcacg tttctctcct gtgaganccc ccctttttata tgatatatcc 180

agaggaagtt ttgtaatata aaacaggacg cccacactga tggttttgca ctggt 235

<210> 332

<211> 38

<212> DNA

<213> Homo sapiens

<400> 332

tttggatttg aatccactca gccggtgcac accttaaa 38

<210> 333

<211> 265

<212> DNA

<213> Homo sapiens

<400> 333

tgttttagaa ccagccgtat tttacatgaa gctgtataat taattgtcat tatttttgtt 60

agcaaagatt aaatgtgtca ttggaagcca tccctttttt tacatttcat acaacagaaa 120

ccagaaaagc aatactgttt ccattttaag gatatgatta atattattaa tataataatg 180

atgatgatga tgatgaaaac taaggatttt tcaagagatc tttctttcca aaacattttt 240

ggacagtacc tgattgtatt ttttt 265

<210> 334
<211> 56
<212> DNA
<213> Homo sapiens

<400> 334
cacaatctga gcacgctacc aaatctcaaa atatcctaag actaacaaag gcagct 56

<210> 335
<211> 289
<212> DNA
<213> Homo sapiens

<400> 335
tcccaagtag tgctgactga ctctcctggt gacaggggtt tgtgtccgag cccctgcggt 60

caaggagtgt ggagcaaaac gtgggtacta gggtgggagg cggggaaagg ccacagcaca 120

ctggcgctcc agcaaagcca aatcatgtct cctctggcca ctgcggtcct ctccttggta 180

catgtcatcc cccagaggag tatccaaagc tattccacta tgcactcatc aaccctggct 240

tgtcagcctt ggggaaggtc actttattca taaaaatgcc tctttgagt 289

<210> 336
<211> 212
<212> DNA
<213> Homo sapiens

<400> 336

cctgagtcct gggatcagac acccttcac gtgtatcccc acacaaatgc aagctcacca 60

aggtcccctt tcagtcccct tccctacacc ctgaccggcc actgccgcac acccacccag 120

agcacgccac ccgccatggg agtgtgctca ggagtcgcgg gcagcgtgga catctgtccc 180

agaggggca gaatctccaa tagaggactg ag 212

<210> 337

<211> 294

<212> DNA

<213> Homo sapiens

<400> 337

cagggttcct ttgcctgcta acaagcccac gtggaccagt ttgaatgtct ttcctttaca 60

cctatgtttt taagtagtca aacttcaaga aacaatttaa acaagttttt gttgcatatg 120

tgtttgtgaa cttgtatttg tatttagtag gcttctatat tgcatttaac ttgtttttgt 180

aactcctgat ttttcctttt cggatactat tgatgaataa agaaattaaa gtgatagttt 240

tattggtttc ctttcccca attaaggcca aataaagtcg tgagaacatt accc 294

<210> 338

<211> 52

<212> DNA

<213> Homo sapiens

<400> 338

gaggccggtg ccagtgcagg tccttggtgt gctgtgtgcc ggtcccctgg gc 52

<210> 339
<211> 297
<212> DNA
<213> Homo sapiens

<400> 339
atggtaatgt aggatccttt cacagagtgc caggctaaag agctgaactt tgtggtggaa 60

gagacagacc ccctatgtgc tctgtagaca cctgtgatga agtagaactc atgaggatat 120

gaagagaaac atttgtaatt tgagtgatta aactaggaac gaaagaggag gggagaaata 180

ggaagagaga atcaccggcc ctgttgactg atttgagctg ggaatgaaga agaaaaccct 240

gcaggtgtgg gcaccaatgt ttgaaacccc cacagtgtga gtctcaactc tgtgtga 297

<210> 340
<211> 223
<212> DNA
<213> Homo sapiens

<400> 340
ccatgtcagc ctggatagag gtatatgacg tgtgccaaga atttatccca gactcccctg 60

tgtgacagct tcataataaa gttacttaac tgtgcctctt cctccttcct ctccccacac 120

aggatggatg ggcatctttc tccttgacca ccctactctc ccttcctccc ctgatcacct 180

cccctccctg ctctcccctg gtgatggact tctaacatga gat 223

<210> 341
<211> 238
<212> DNA
<213> Homo sapiens

<400> 341
actggtatat tattgcttca tgttttgtac catcataaga ttttgtgcag attttttta 60

cagaaattat tatttttat gacaatatga cacttgtaaa ttgttgtttc aaaatgaaca 120

gcgaagcctt aactttaaat gacatttgta ttttcagaca ctgagtagca taaaaaccac 180

atagaactga actgtaactt aaattccaaa ctatgactac tacattccaa agaaacag 238

<210> 342
<211> 129
<212> DNA
<213> Homo sapiens

<400> 342
cgtccccaac atgcatctca ctctgggtgt cttggtcttt tatttttgt aagtgtcatt 60

tgtataactc taaacgccca tgatagtagc ttcaaactgg aaatagcgaa ataaaataac 120

tcagtctgc 129

<210> 343
<211> 277
<212> DNA
<213> Homo sapiens

<400> 343

tggaggattc aagatgagca ggtatgtttt ctgctttcaa taactcattt tctgctgcag 60

agatagcctt gtaagcaagc aaaggaaaac tttgacattt ctctgcaaag ataatgcatt 120

acatataagg gtgtgtctgg gagggtacca ggtgcctgtc agcaaaagtt gcaaaaacag 180

cttgataagg gtattaagtg ggcctgttgg gaaaggcagg agtgtcaaat gtcggacaga 240

actccagaca gagaaatcca gatatccagt aggttag 277

<210> 344

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (92)..(92)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (105)..(105)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (160)..(160)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (169)..(170)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (172)..(176)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (178)..(180)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (182)..(182)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (186)..(187)

<223> n is a, c, g, or t

<400> 344

gaatggcaaa acacaaatgg caacataaat gtccatttga cttacctaac ttcacaactt 60

tcaagttgag gatgtcattt attcttgaat tntgtttttt tactnagatg ctttcaatta 120

atagccctat atttttgtgc aggcgaactg tataacaggn ataaaaaann annnnnannn 180

antgannagg aggagaaatt ctcacagaac accatatgag ctttagacca a 231

<210> 345

<211> 262

<212> DNA

<213> Homo sapiens

<400> 345

gaggtgtgat tttaaggcat tgttatattt ttttttattt gtgagtgttt taaaattttg 60

tatttctttt aaacttttta ttttagaaaa atttccaaca tatatagaag tagactattg 120

taaggaaccc ttatgtaccc tccaccagct tcaacaacta tcaacaaaag tttgatcttg 180

ttttaaccac attccttttcc aatttttgtg tttaccccca gattattttg aagcaaattc 240

ctgacctcat aacattttca aa 262

<210> 346

<211> 187

<212> DNA

<213> Homo sapiens

<400> 346

ttcagtttgt cctcataggg aatcaagtat tttagctagg tgatgtcttg caagtacgtt 60

ccactttgtt acaatctact atctgtatat actatttgta tcttaattct tttatgagat 120

gttctgtaac atttttctca ctttgacaaa tgtttttaga ctgtacagtc aagatctggc 180

gcttggg 187

<210> 347

<211> 180

<212> DNA

<213> Homo sapiens

<400> 347

acagtgattc cccacgtgtg ttcatctgca cccaccgagc caggcagagg ccagccctcc 60

gtggtgcaca cagcacgcgc ctcagtccat cccattttag tctttaaacc ctcaggaagt 120

cacagtctcc ggacaccaca ccacatgagc ccaacaggtc cacgatggat ccaccagtcc 180

<210> 348

<211> 55

<212> DNA

<213> Homo sapiens

<400> 348

cagatcgaca cgcagctagc ctcctgcatt gtatggttat aaatagcacc ctagt 55

<210> 349

<211> 207

<212> DNA

<213> Homo sapiens

<400> 349

aagtgttcta caaaagaatc cctgtggtta gcttactctt aggttagatc ttctaataag 60

gctgaaattc aaaatcaaaa ccttagtgtg tccgagtcca gcctgggttc cagcattctg 120

ttcaggccac ttctgaacgg ccgaaggtgc cccattccag acctgcccat ttgatggaca 180

gagcagacag cccggaacag attcaag 207

<210> 350
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (93)..(93)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (97)..(97)
<223> n is a, c, g, or t

<400> 350
taagaattta tgaaactggg caagttattt cctgggactc aatggtaaag acacagcagt 60

aatccaaatt ttccatcttt gaaattttcc atncttncag tcaatattag taatacctgg 120

gtcaaagggg agagttaggc ataccaatta atgatcatca gaaatgacat agtcctacaa 180

aagcaaagaa aatttagaga cactttctta aaaatacgac tcttggtact gttgaagaaa 240

a 241

<210> 351
<211> 261
<212> DNA
<213> Homo sapiens

<400> 351

agccgctgcc aagtctgtat gagaagaaca taatgaagcc tgactcagct aatgtcacaa 60

catggtgcta cttcttcttc tttttgttaa cagcaacgaa ccctagaaat atatcctgtg 120

tacctcactg tccaatatga aaaccgtaaa gtgccttata ggaatttgcg taactaacac 180

accctgcttc attgacctct acttgctgaa ggagaaaaag acagcgataa gctttcaata 240

gtggcatacc aaatggcact t 261

<210> 352

<211> 274

<212> DNA

<213> Homo sapiens

<400> 352

ggttgagttt gtccattgct agggagagac ttccagtaat aaaatttact attctagatg 60

cttctactgt tatgttttat ctgcccattt atctttctta gttaccagga gaaatgtgtg 120

acacctatat tataatgaaa acaatcttat tacttatagt ttatctatat taaacaaatt 180

taattgcatt ttaaagcatt ctttgatatt gttgcttttg caataaatat ggataatctt 240

ggttataagg gagttaaaac aatgctgtaa taaa 274

<210> 353

<211> 179

<212> DNA

<213> Homo sapiens

<400> 353

tcatggaatg ctacatgctt tctgtttttt tcattttgga tttctccaaa actaactgaa 60

tttaagcttc aggtcccttt gtatgcagta gaaaggaatt attaaaaaca ccaccaaaga 120

aaataaatat atcctacttg aaatttactt tatggactta cccactgcta gaataaatg 179

<210> 354
<211> 249
<212> DNA
<213> Homo sapiens

<400> 354

cggttgttaa aactggttta gcacaattta tattttccct ctcttgcctt ttttatttgc 60

aataaaaggt attgagccat tttttaaatg acatttttga taaattatgt ttgtactagt 120

tgatgaagga gttttttttа acctgtttat ataattttgc agcagaagcc aaatttttтg 180

tatattaaag caccaaattc atgtacagca tgcatcacgg atcaatagac tgtacttatt 240

ttccaataa 249

<210> 355
<211> 64
<212> DNA
<213> Homo sapiens

<400> 355

ccatgaagga gcaagttttg tatttgtgac ctcagctttg ggaataaagg atcttttgaa 60

ggcc 64

<210> 356
<211> 57
<212> DNA
<213> Homo sapiens

<400> 356
atgaggcaga atctggttgg gtatgtttct tatatatgtt tgaagcagat ggctgac 57

<210> 357
<211> 141
<212> DNA
<213> Homo sapiens

<400> 357
atttttgcct ttccgtttct gtctatgatg taggcttctg aggagaacca agaagcttgg 60

ctttagtggt agaatgacag aacttaggga tcccttgcag gctagaacaa agttctgacc 120

cttagaccaa atctttatgt t 141

<210> 358
<211> 108
<212> DNA
<213> Homo sapiens

<400> 358
gaggaggtgg gcctcgttag actgctcaga ttactggaac ctcgttatca catcccattc 60

tacaagtttt tcactgaatg tttcctgaca tctataaatg agggtgcc 108

<210> 359
<211> 158
<212> DNA
<213> Homo sapiens

<400> 359
gttcaaatga tctacactta cattttgcaa atctttttt ttaaattttt taaattttat 60

attttttttc cagccaactc aaggccaaaa aaaatttctt aatatagtta ttatgcgagg 120

ggaggggaag caaaggagca caggtagtcc acagaata 158

<210> 360
<211> 157
<212> DNA
<213> Homo sapiens

<400> 360
aggtggtttt gataacacac ttataaggct ttctgtaaaa ggtactatag aagggcgaag 60

aatcgttcaa ctgtcaatca gcctcttgat tctttgtaaa ttgccagggt gggtgggtac 120

atatctcttc ttgattctgc atttcatact taactat 157

<210> 361
<211> 273
<212> DNA
<213> Homo sapiens

<400> 361
gactgagtga gtaactgcaa gctacagggg gcagcttacg tatggcacac agggtggggc 60

tagcttggtt tcataggctc tctgtggatt ggatgattta aataattttg gtgggccctg 120

gggtttaggg actgtcccta gttgtttggt gctaggtccc agggcagatt agggcagatg 180

tgagtgtgag agcatgataa ggaaagtctt caaggtgtgg aattactcaa ctgctggaga 240

aagggaattt atcagccttt agccagggcc tca 273

<210> 362
<211> 257
<212> DNA
<213> Homo sapiens

<400> 362
gaaagcctga gtttgcaacc agttgtaggg tttttgttgt gttttttttt ttttttgaa 60

ataaaactat aatataaatt ctcctattaa ataaaattat tttaagtttt agtgtcaaaa 120

gtgagatgct gagagtaggt gataatgtat attttacaga gtgggggttg gcaggatggt 180

gacattgaac atgattgctc tctgtctctt ttttcagctt atgggtattt atcttctatt 240

agtatttgta tcttcag 257

<210> 363
<211> 268
<212> DNA
<213> Homo sapiens

<400> 363
atgagtcaaa atccgctctc catgcttact cttgacaccc cattgaagcc actcattgtg 60

tgtgcgtctg ggtgtgaagt ccagctccgt gtggtcctgt gcttgtactg ccctgctttg 120

cagttccttt gcacttactc atcgagtgct gttttgaaat gctgacatta tataaacgta 180

aaagaaaatg taaaaaaaaa aaacccacac acaaacaaac ccatacgatc tgtatttgta 240

tatacacgtg tccgtacaag tataacta 268

<210> 364
<211> 290
<212> DNA
<213> Homo sapiens

<400> 364
gaccaaatgg attagactgt aaactgcaaa gtgctgtccg cacatgaggt catctgatta 60

ctgtcctcag atctcttttg tagaggattt caatgtattt ctttatcatt tgagtgtgtg 120

tgtgatggac gaatatgtgt gtgagtttga gaagcatatc gttcgtgtcc agttactttg 180

caaatttgtg gacatttgtg attggacaga ggggtttgtg ctgtggccta acacttgcca 240

agtgaggtgt aggttatgcc tatatgcaaa ttaaacttca cctttcttga 290

<210> 365
<211> 205
<212> DNA
<213> Homo sapiens

<400> 365
cctttctaag gatgagggaa tccacaacag actttctcta gaaaacacta atgatggaca 60

actttttggt gtcatcaatg agttggctac taccttgatg taaaaatttg taaggaaaat 120

tttcaccatt tcgagtgtca agtgtatttt taactgtctg gtttgtactt ttatgacttt 180

tgtactacca aagcggagtt aaaaa 205

<210> 366
<211> 278
<212> DNA
<213> Homo sapiens

<400> 366
ctatcaggta ctgtgctcat ctgaacaaca aacctcaaca acacgcaatt tatccatgta 60

attaacctgc acatgtaccc ccgaaaccta aaataaaagt tcaaaaaaaa cctgtggtat 120

ttaaataggt attgtgtcta aaaatgcatg ctatctaaaa atgtagtttt attgcactgt 180

ataagaatac gagaggttta aaatagacac tctaaaagtt ataagcccta atttacatat 240

attctctagc ctttctccac cttctatcta ccaaaaaa 278

<210> 367
<211> 41
<212> DNA
<213> Homo sapiens

<400> 367
tcctcatggt ggcagcgctc atagcgaaag cctactgtaa t 41

<210> 368

<211> 133

<212> DNA

<213> Homo sapiens

<400> 368

aatgcagaat attcctctga acacttccct catacatcat tcaatattat aaattaaaca 60

caaagagcct ctccacttag atttttatca tgcatcctac attgtaatgt ctttactctt 120

ccatagaaaa ggt 133

<210> 369

<211> 74

<212> DNA

<213> Homo sapiens

<400> 369

ggtgcaatta ttatactgcg aaaatgaaaa tattgcatac taaacagtac ctagggtatg 60

atctcaatgt aaaa 74

<210> 370

<211> 172

<212> DNA

<213> Homo sapiens

<400> 370

aactgtgacc gtttctgtgt gaagattttt agctgtattt gtggtctctg tatttatatt 60

tatgtttagc accgtcagtg ttcctatcca atttcaaaaa aggaaaaaaa agagggaaaa 120

ttacaaaaag agagaaaaaa agtgaatgac gtttgtttag ccagtaggag aa 172

<210> 371
<211> 258
<212> DNA
<213> Homo sapiens

<400> 371
actcaaggct gtgaacaaac atacgctgct ttattctttc caatttttct cttgttttct 60

agaactctta tccatatgtt tttaaaataa gtacctaaaa gtggtttgat agtgtcctaa 120

acgacttttt taacttccta aatggaaaga gcataacaat gtagttgatt ggtaagattt 180

acagggattt ggtttctgag tttgaggcac attcccagtg aataagctga gtcccatacc 240

acactcaaaa ggttttaa 258

<210> 372
<211> 103
<212> DNA
<213> Homo sapiens

<400> 372
attaaagtac tcaagttagt tgttttgcag agatgttgcc ttcagatgtt aatcaggtct 60

ctcaagtttc atggagtcta tgctgatcct ttaattgaca aat 103

<210> 373
<211> 258
<212> DNA

<213> Homo sapiens

<400> 373

ggatgaagtg gcacacactc taactgaaag cagagtatta aagaacacta gacatccctt 60

tttaacatcc ttgaaatatt ccttccagac aaaagaccgt ttgtgttttg tgatggaata 120

tgttaatggg ggcgagctgt ttttccattt gtcgagagag cgggtgttct ctgaggaccg 180

cacacgtttc tatggtgcag aaattgtctc tgccttggac tatctacatt ccggaaagat 240

tgtgtaccgt gatctcaa 258

<210> 374

<211> 252

<212> DNA

<213> Homo sapiens

<400> 374

ggttctgtaa ggtctttatt tcccataagt aaatattgcc atgggagggg ggtggaggtg 60

gcaaggaagg ggtgaagtgc tagtatgcaa gtgggcagca attatttttg tgttaatcag 120

cagtacaatt tgatcgttgg catggttaaa aaatggaata taagattagc tgttttgtat 180

tttgatgacc aattacgctg tattttaaca cgatgtatgt ctgtttttgt ggtgctctag 240

tggtaaataa at 252

<210> 375

<211> 210

<212> DNA

<213> Homo sapiens

<400> 375

tttcaagatc ttttgctcac aattcactgc aactgagggg atgtgaatat cattatgcaa 60

taaattaaga gccacagttg gctgaggtga tatgaaagcc aacctgccta agggggtat 120

gaaagatgtg tatctttcca aacttttaaa acaacgtaag tctgagataa gaacatattt 180

gatggcactg tttggaaaga ggtgtcctta 210

<210> 376

<211> 258

<212> DNA

<213> Homo sapiens

<400> 376

ctcaccagga ctcgtctctc cattcccgtc agagtttgct ttgatttccc tttcctttcc 60

ttctcgggga ccagttctta cttcctttta tttttagctt tgcactccat gtggtttcag 120

ggttcagttt gatccatcaa aaggttcttt ttttataatc ccttttgaaa atgataatca 180

aaggaagaga tgtggtgttt ggtcatgtgg aaaactcaat gtataattta gacgtctgtc 240

aaaaatccga caaataaa 258

<210> 377

<211> 218

<212> DNA

<213> Homo sapiens

<400> 377

gtttcaattg attcacaact ttaaaaaata tccacagagg cgtaagagga gatattgtat 60

tgcacccacg aaccagtttt atgctgttta agaaagggac attcaagaaa caaaaaggga 120

gctttgggaa atttgaacaa taaataatag tagaataaaa aattcagaga aagtttggat 180

gataaatttg agccaatctc ccagtaagca gagcaaaa 218

<210> 378

<211> 267

<212> DNA

<213> Homo sapiens

<400> 378

atgactgtgc tagagccacc ctctcacttt agcctcctga gtagctggga ctacaggtgc 60

ttcccactgt gcctggccaa ttaacaattt catttttatt tttagtagag atgagatctc 120

actatgttgc ccaggctggt cctgaactcc tgagctcaag agatcctccc accttggcct 180

cccaaagtac tgggattaca aacaagagcc actgtgcctg accaggctct aagattgcta 240

atctggctat agaaggacta atgttag 267

<210> 379

<211> 230

<212> DNA

<213> Homo sapiens

<400> 379

aagccgaggg gcccgagact ctgcagcggg gccagaaaga gaagagtggg ggaggaggcc 60

gggagtggtg catggaccag ggggtagagg gaggtgggtg tggacctggg gtcgggcgcc 120

agtcagcttg cagcctatga aggacggaag ggagggctac agagataggg gaagagtggg 180

gctgaggata gccagagcgg cttggcacac agttttaggg taaaagcatc 230

<210> 380
<211> 196
<212> DNA
<213> Homo sapiens

<400> 380
tttatttata ccaagcctcc tcctgaaatt tctcttcctt tctttctacc tacccaagac 60

ataccacgtg cttcaataac cagtcccttc ctcctacaaa cactacaacc tggaaagcac 120

tcttgctttt ctgaagtcct ctatacttag tgtaactctt ctgtgatgaa gattaaagtg 180

tattatggca actctc 196

<210> 381
<211> 267
<212> DNA
<213> Homo sapiens

<400> 381
aggcattata tatactacac agagtacaat taaaccataa ttgggaatta tattttgttt 60

ttttcttccc aggcaataca cctctgaaca tgtgtgtgat aaatgggttt gctaatgtgc 120

tgttttaaag tataaagcat aatatgtttt ggttaacaca atgtactttt tgaactataa 180

atctttattt taatatggaa atgtttggaa caggagatgc aagccactaa cagagaactt 240

taataattct accctgtatt ttataaa 267

<210> 382
<211> 280
<212> DNA
<213> Homo sapiens

<400> 382
acccacactt aaactaaagg ctaagaatat aggcttgatg ggaaattgaa ggtaggctga 60

gtattgggaa tccaaattga attttgattc tccttggcag tgaactactt tgaagaagtg 120

gtcaatgggt tgttgctgcc atgagcatgt acaacctttg gagctagaag ctcctcagga 180

aagccagttc tccaagtttt taacctgtgg cactgaaagg aatgttgagt tacctcttca 240

tgttttagac agcaaaccct atccattaaa gtacttgtta 280

<210> 383
<211> 72
<212> DNA
<213> Homo sapiens

<400> 383
acatgagtat ggaatggtgt tttattatga ctttagtttg cattttcctc aattctcgtt 60

aaatccttca tt 72

<210> 384

<211> 260

<212> DNA

<213> Homo sapiens

<400> 384

gagtaggttc ggtctgaaag gtgtggcctt tatatttgat ccacacacgt tggtctttta 60

accgtgctga gcagaaaaca aaacaggtta agaagagccg ggtggcagct gacagaggaa 120

gccgctcaaa taccttcaca ataaatagtg gcaatatata tatagtttaa gaaggctctc 180

catttggcat cgtttaattt atatgttatg ttctaagcac agctctcttc tcctattttc 240

atcctgcaag caactcaaaa 260

<210> 385

<211> 222

<212> DNA

<213> Homo sapiens

<400> 385

atgattatag aaggctgtct tagtgcaaaa aacatactta catttcagac atatccaaag 60

ggaatactca cattttgtta agaagttgaa ctatgactgg agtaaaccat gtattccctt 120

atcttttact ttttttctgt gacatttatg tctcatgtaa tttgcattac tctggtggat 180

tgttctagta ctgtattggg cttcttcgtt aatagattat tt 222

<210> 386

<211> 216

<212> DNA

<213> Homo sapiens

<400> 386

gcaatatatt tgtgattccc catgtaattc ttcaatgtta aacagtgcag tcctctttcg 60

aaagctaaga tgaccatgcg ccctttcctc tgtacatata cccttaagaa cgcccctcc 120

acacactgcc ccccagtata tgccgcattg tactgctgtg ttatatgcta tgtacatgtc 180

agaaaccatt agcattgcat gcaggtttca tattct 216

<210> 387

<211> 35

<212> DNA

<213> *Homo sapiens*

<400> 387

ttggatagca gctatcttgt tggatgtgag gtgga 35

<210> 388

<211> 258

<212> DNA

<213> Homo sapiens

<400> 388

atgaaaggtg gaagttctac ctagatttga atgagtgttt ttttaaggga atgagaatgt 60

catggtgcta aacctgacaa ataagagatc attgaaatgc tgaaaatttt aacagttttt 120

ttaaaagtat tgaggggggca aaaattacca attatggtat acaaaaataa gcctataaat 180

gtgtttcaca ttgctaactt gagtttcagt tgattcagtt tgtaataact agtaatgagc 240

ttctgtttac aataaaaa 258

<210> 389
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (195)..(195)
<223> n is a, c, g, or t

<400> 389
ccacagtgtt cccactaatg ctatttttta atttttaat ttagtttgtc ataatttggt 60

ttcatcaact cctttgtttt ttccttcttt ttttttttt gagatgaggt ctcactatct 120

tgcccagact ggtttcgaat tgccctccag caattctccc acctcagcct tcagagtagc 180

tggcattgtg ggtangcacc actgtgccca gctcctgttt tataataaat aagccagagc 240

tctatctcca aatggtgcaa atcatcaatg ctatt 275

<210> 390
<211> 281
<212> DNA
<213> Homo sapiens

<400> 390

gggcccctgg tatttatagg gtccaagagg aggcacctgc ttttcaactg caccctcagt 60

gctgcctctt cacggcccct aaacgtttcc ctttgaggtt gtgatgctgg gaatcacaga 120

cttcactctc tgcctgcacc cttccccgag gtctcatctt ttctgggtcc cacatctttg 180

taataatgtg aaaaagcaca atttgtctga tcacccccca ggtggttccc caccttatta 240

tcactacctg atccgagtta ctgcaataag tacggtgtcg c 281

<210> 391
<211> 274
<212> DNA
<213> Homo sapiens

<400> 391
tgctcagtgt catgctgtgt gtgcatgtgt gtgctgtgtg ttttgtgtgt gtgctgtgtt 60

catgtgtgct gtgcatgcgt gtgtgctgtg tgtgcctgtg tgtgcggtgt gctgtgtcct 120

tgtgtgtgct gtgtgtgcgt gtgctgtgtg catgtgtgtg ctgtgttatg tcgtgtgtgc 180

agtgtgtgct gtgtccgatg tgtgctgtgt acacatgaga gagcagagtg tacatgtgtg 240

tgctgagtct atcagaagat gtgtgtagct gcgg 274

<210> 392
<211> 89
<212> DNA
<213> Homo sapiens

<400> 392

tgtgcccagc ctaagccatt tcttaaaata aaaatgctaa aggactagta agtaaaaata 60

aaacttccta tgggatttcc cagtggaaa 89

<210> 393
<211> 72
<212> DNA
<213> Homo sapiens

<400> 393
gggagattgg tggcccttgc caggaagtgt cttaacactt tgtggatact gctgcctgtt 60

gtctttaaaa gc 72

<210> 394
<211> 177
<212> DNA
<213> Homo sapiens

<400> 394
gataacagtc ttgcatgttt atcatgttac aatttaatat tccatcctgc ccaacccttc 60

ctttcccatc ctcaaaaaag ggccatttta tgatgcattg cacaccctct ggggaaattg 120

atctttaaat tttgagacag tataaggaaa atctggttgg tgtcttacaa gtgagct 177

<210> 395
<211> 117
<212> DNA
<213> Homo sapiens

<400> 395

ttaaacagtc tagagtgaag ggaatgtttt aaaatccaga ggcgatcaag tgaagccaac 60

ctttggaggc ccgtagaagt catttggagg aatttggact tcgtgcagta ggaaaga 117

<210> 396
<211> 164
<212> DNA
<213> Homo sapiens

<400> 396

caggggggcc tgagagtaac agtgaggatt atccaggtgc cctgagtgta acagtgagga 60

ttatccaggg gggccctgag tgtaacagcg aggattatcc agggggccct gagtgcaaca 120

gtgaggatta tccaggggggg cctgagtgta acagtgagga ttat 164

<210> 397
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (139)..(139)
<223> n is a, c, g, or t

<400> 397

caaaaatgag tcacaactct tgattccatc cacctccaaa atccaggtat tttccttaat 60

tctcattctt tcacaactcc acatatatcc atatcctcat tatctcagga caacgtgacc 120

atttcttgcc acttcccanc acttccatgc ctaccaaaga agcctatctt ctctcaccag 180

gaccactgaa aaagtcttgc aactgatttc ccttgtcctc ttcttgcctc tctacagtca 240

attctctata caacagtca 259

<210> 398
<211> 104
<212> DNA
<213> Homo sapiens

<400> 398
tgctgcggtc gcctctctca ggctcccccg ctccccgggg cctccgcttc tcagccgggt 60

gctgtgcgtt tgagtgtgtg ctgctgctcg ctgtgtgtgc tgtg 104

<210> 399
<211> 147
<212> DNA
<213> Homo sapiens

<400> 399
tatatacatg gtgctcaata gcaacatctt agcagatgaa gcagtttatg attccactcc 60

ctcctgtatg acaggtagcc actatactga atcaaggtgc tgaactcaaa tcacaaaatt 120

ctggcttacc gatacaacaa ccaatac 147

<210> 400
<211> 208

<212> DNA

<213> Homo sapiens

<400> 400

ctctgagttt tatatgctgg aatccaatgc agagttggtt tgggactgtg atcaagacac 60

cttttattaa taaagaagag acacaggtgt agatatgtat atacaaaaag atgtacggtc 120

tggccaaacc accttcccag cctttatgca aaaaaagggg agaatcaaag ctttcatttc 180

agaaatgttg cgtggaaaag tatctgta 208

<210> 401

<211> 139

<212> DNA

<213> Homo sapiens

<400> 401

aaaaagagag aatatgtcct gtgttagctt gcttaggaaa taaagagaga gagagagagg 60

gagggaggga aagagagaaa gagagagaga gaaagagagt gagagaaaga gagagcaaga 120

gagcaagagt aagaaagaa 139

<210> 402

<211> 243

<212> DNA

<213> Homo sapiens

<400> 402

ggcagtagat agtcaaagtc aaatcatttc taatgtttta aaaatgtgct ggtcattttc 60

tttgaaattg acttaactat tttcctttga agagtctgta gcacagaaac agtaaaaaat 120

ttaacttcat gacctaatgt aaaaaagagt gtttgaaggt ttacacaggt ccaggccttg 180

ctttgttacc attctgatgt tggactaatt gactaatcac ctacttatca gacaggaaac 240

ttg 243

<210> 403
<211> 298
<212> DNA
<213> Homo sapiens

<400> 403
agaggcccat gccaacagtc taatctaaga gattagtctt tcaaactcac catccagttg 60

cctgttacag aataactctt cttaactaaa aacctagtca aacaaggaag ctgtaggtga 120

ggagatctgt ataatattct aatttaagta agtttgagtt tagtcactgc aaatttgact 180

gtgactttaa tctaaattac tatgtaaaca aaaagtagat agtttcactt tttaaaaaat 240

ccattactgt tttgcatttc aaaagttgga ttaaagggtt gtaactgact acagcatg 298

<210> 404
<211> 193
<212> DNA
<213> Homo sapiens

<400> 404
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cgatcctgcc gggcacagcc gcgcccgcgc ctccggcgcc gtccccgggc tgacggggga 120

gggagcggag aagcgagcgc agattctgcg tataaatcag ctctggagca gacacagccc 180

ggctgtgaaa agc 193

<210> 405
<211> 275
<212> DNA
<213> Homo sapiens

<400> 405
gtaggtttgg gagtataacg gtcacccagg gaggggtga agacggagaa gacttacata 60

gcacggtcag gttagggctg gacagatgag gaagagctag caaaggggc ttgaggagca 120

gtggccacta agacaggagt gtgacatttt agaagccaaa agaagaccat gtaattcaag 180

ggagaggtat gatttgctgg gtcagatcta aaaataaatc acacgttttt ttaaactgta 240

gtaattaacc actgaaaact tatgagtgat ccaat 275

<210> 406
<211> 143
<212> DNA
<213> Homo sapiens

<400> 406
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gccaggctgg tcttgaactc cttccctcgc tcccccaaaa atttgaattt ttttttcaac 120

actttttacac ctgttatgga aaa 143

<210> 407
<211> 263
<212> DNA
<213> Homo sapiens

<400> 407
gagatcactt ggtaactggt ttcatgtgta tccaaaaatc agcatttgga tttaagcttt 60

ctgaatttgg tagtttaaga aacagattta gtttttcagt ggttttaact catgtgaaat 120

aatgattttc caccagcttt gatgcaaaga gatataattt taatgaacga tttatccagc 180

agtttgttcc aggggttgcc tctccttatt tacggggatt actttgtaca tgcagataag 240

ttttcgcaaa cctatttcca ttt 263

<210> 408
<211> 300
<212> DNA
<213> Homo sapiens

<400> 408
gatgataatc tttactggtg aaaaggatgg aaaaataaat caacaaatgc aaccagtttg 60

tgagaaaaaa aaaaaaaagc cgaaaaaaaa aaaaaaaaca cctgaatgcg gaagagctcg 120

gctcccgttt agcattttgt acttaaggaa ataaaaaacc aacaaaggat ctcacatttt 180

cttaaaaagt gaagattgct gtatactatt tattcaactt ataatttatg ttactccttg 240

atctttgtct tttgtcatga caaagcattt atttaataaa gttatgcatt cagttcccaa 300

<210> 409
<211> 238
<212> DNA
<213> Homo sapiens

<400> 409
agaattccag ataaacacac agcctttccc atacctttt ttttcttact ataaaatatt 60

ataagatcca ttgatgtcca aataatacca ccgagcatct cttcacctct cctcctcttg 120

gtccacttgc taatgcccag ttttcttctc catttccact ttttcttagg ctccctattt 180

actattcatt ttgacttcct tctgttttat ttttttccct ttagcattgc atgtgaat 238

<210> 410
<211> 101
<212> DNA
<213> Homo sapiens

<400> 410
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tagctgcggg gatgcataaa gtatgagtgc tttttaggat g 101

<210> 411
<211> 34
<212> DNA
<213> Homo sapiens

<400> 411

tttatgaaca gcagactcta tgtaaaggca tttt 34

<210> 412

<211> 168

<212> DNA

<213> Homo sapiens

<400> 412

aggagggaaa ataatagccc agtgagagct gaatgaaaag ggactgaatt taaatatttg 60

taagaacttt gtgatgatga gtaattgtca gacgtgggat agataactga gaggctcaga 120

atctttacca aggatatttt ttaggataag gtagctgcct gttcatga 168

<210> 413

<211> 150

<212> DNA

<213> Homo sapiens

<400> 413

agggacccag taagaccaaa ggaggggagg acagagcatg aaaaccaaaa tccatgcaaa 60

tgaaatgtaa ttggcacgac cctcaccccc aaatcttaca tctcaattcc catcctaaaa 120

agcactcata ctttatgcat ccccgcagct 150

<210> 414

<211> 124

<212> DNA

<213> Homo sapiens

<400> 414

ggctcaggtc ctccctacaa gacctaccac tcacccatgc ctatgccact ccatctggac 60

atttaatgaa actgagagac agaggcttgt ttgctttgcc ctcttttcct ggtcaccccc 120

actc 124

<210> 415

<211> 93

<212> DNA

<213> Homo sapiens

<400> 415

tggagaagca ctggtgtctg cagcacccct cagttcctgt gcctcagccc acaggccact 60

gtgataatgg tctgtttagc acttctgtat tta 93

<210> 416

<211> 76

<212> DNA

<213> Homo sapiens

<400> 416

ggaggatgcg ctgtggggtt gtttttgcca taagcgaact ttgtgcctgt cctagaagtg 60

aaaattgttc agtcca 76

<210> 417

<211> 220

<212> DNA

<213> Homo sapiens

<400> 417

tctggtagat aaagccctag accttgtcca cactctcacc cccatcccca actttccctg 60

gaccggtgcc gcccccactt gatgcttgct caaggccggg gactggagcg ggctacttgt 120

atatttcgtt gtcagtctgc agaatgtgtt tgatttttat ttttccctcc ttctctgaca 180

tgtgtcaagg aataaagact ggatacaggt ccattacgtc 220

<210> 418

<211> 98

<212> DNA

<213> Homo sapiens

<400> 418

tggatcgatg atgagtcccc ccaaaaaaac attccttgga aaagctgaac aaaatgagtg 60

aaaactcata ccgtcgttct cagcggaact gaggtcca 98

<210> 419

<211> 97

<212> DNA

<213> Homo sapiens

<400> 419

ggccaaaaag tctacattgc gtgtgtggat ggatgaatga gcagtgggag tgcagcgcca 60

ggtgacaaga tgttgtgagg ggttttgagt catccag 97

<210> 420

<211> 87

<212> DNA

<213> Homo sapiens

<400> 420

gccctgcgcc ggcaaccacc tagtggccca gggaaggccg ataatttaaa cagtctccca 60

ccacctaccc caagagatac tggttgt 87

<210> 421

<211> 36

<212> DNA

<213> Homo sapiens

<400> 421

aaaaaagttc aactagtatg aaagggttat aaagta 36

<210> 422

<211> 116

<212> DNA

<213> Homo sapiens

<400> 422

gtgagtaaat aatgttctag tgcaacagga caaactactc tctccacagg aaacccaacc 60

acaacaggat caatagaaag aaaagagaaa acgttagccc ccaactacaa ataaat 116

<210> 423

<211> 264

<212> DNA

<213> Homo sapiens

<400> 423

tttcttcttt atgtccaatt ttgtgggtgg gaggaggatt tagtctcttc ctgatttcga 60

agagctcatt tactatttcg ggaaataaga tttggattgt caaccattat agctattttt 120

tacacacttt tcaactttgt ttttgttata agaatgtgta tgattgttac atgtccaagt 180

ataaccatgt tcgcttttat ggcttttgag tttcatgtca tttttggaaa gatatatata 240

ttgagtccat aaaacccttc acct 264

<210> 424

<211> 119

<212> DNA

<213> Homo sapiens

<400> 424

actttaataa aggttatcca taccaataaa aagtgtacaa cacagcattt tctgttaaat 60

tattattggt tttcagttgt aatttggtat tttttctggc atgcgtttat taatttatt 119

<210> 425

<211> 279

<212> DNA

<213> Homo sapiens

<400> 425

gtaggtttgg gagtataacg gtcacccagg gaggggggtga agacggagaa gacttacata 60

gcacggtcag gttagggctg gacagatgag gaagagctag caaaggggggc ttgaggagca 120

gtggccacta agacaggagt gtgacatttt agaagccaaa agaagaccat gtaattcaag 180

ggagaggtat gatttgctgg gtcagatcta aaaataaatc acacgttttt ttaaactgta 240

gtaattaacc actgaaaact tatgagtgat ccaatatta 279

<210> 426
<211> 130
<212> DNA
<213> Homo sapiens

<400> 426
gggacaaggt cccttggtgc tgatggcctg aaggggcctg agctgtgggc agatgcagtt 60

ttctgtgggc ttggggaacc tctcacgttg ctgtgtcctg gtgagcagcc cgaccaataa 120

acctgctttt 130

<210> 427
<211> 262
<212> DNA
<213> Homo sapiens

<400> 427
tttcactctt gctgtctgct cctctcacat catccttgcc tctgtctgtt taatcctcct 60

gtccttcatt ttccttttt gcctctgcat tcagcatttc tacttccaat ctccctcctc 120

tgctctttct tatttcctct gatctgcaga cttgcttctg tcccctcctt ctgttccct 180

cctggatgtg tctttggcca acctttcctt ctctgagact tcgtgttctt gttggtagat 240

ggggggctgat acttctgggt ct 262

<210> 428
<211> 140
<212> DNA
<213> Homo sapiens

<400> 428
ttattattat gaaccttcag cctactttct tgagtgccgt aaaagtgctt gtaaattttt 60

ttttttttta agaagaaaga aaaaaatggt gtttgacgtt gatggaaatt caaaaatata 120

tatggaactg aaacattaac 140

<210> 429
<211> 143
<212> DNA
<213> Homo sapiens

<400> 429
cttgttcttt tgaagcttgt gctgaggttt tagcttttct atgttttata tgccgctgct 60

ttgaaagaga acctagattc tatagttgta ttattgttgt ttcatacttt aaatttatat 120

ggctgtggaa aaacgaatta aaa 143

<210> 430
<211> 151
<212> DNA
<213> Homo sapiens

<400> 430

gtgtgtcaag gatttgacaa actgccattt ttctccagaa gtcaagcccc taagtgattg 60

tctagaggca agaatttttt gatatgttgt ctcaacaatg cttctcactt cgtcttcagg 120

tgccccaacc cgcaagtaca catactatgt a 151

<210> 431

<211> 150

<212> DNA

<213> Homo sapiens

<400> 431

aatgttcata ggttctcaac cctcaccccc caccacggga gactagagct gcaggatccc 60

aggggagggg tctctcctcc caccccaagg catcaagccc ttctccctgc actcaataaa 120

ccctcaataa atattctcat tgtcaatcaa 150

<210> 432

<211> 115

<212> DNA

<213> Homo sapiens

<400> 432

gatgggaatt gagatgtaag atttgggggt gagggtcgtg ccaattacat ttcatttgca 60

tggattttgg ttttcatgct ctgtcctccc ctcctttggt cttactgggt ccctc 115

<210> 433

<211> 223

<212> DNA

<213> Homo sapiens

<400> 433

tacattgtaa gagcaacatc ctacgttaat aaatgttcta gcccggtgct tcgcgaacat 60

ttatgtgcat acaaatcacc tgggatcttg ttagaaggca gtaggtctgg ggtggggcct 120

gagattctgc atttctaacc aggtcctggg agatgctgat gctatcgagc cacaaccaca 180

ctttgagtag caagcctctg gcctatcctt attgtttgtt ata 223

<210> 434

<211> 272

<212> DNA

<213> Homo sapiens

<400> 434

tttcactctt gctgtctgct cctctcacat catccttgcc tctgtctgtt taatcctcct 60

gtccttcatt ttccttttt gcctctgcat tcagcatttc tacttccaat ctccctcctc 120

tgctctttct tatttcctct gatctgcaga cttgcttctg tcccctcctt ctgttccct 180

cctggatgtg tctttggcca acctttcctt ctctgagact tcgtgttctt gttggtagat 240

gggggctgat acttctgggt cttgggcatg tc 272

<210> 435

<211> 221

<212> DNA

<213> Homo sapiens

<400> 435

ttgctggggc ttgtcctaga ggctccagct ttggcacagt ggttcctggc tgctgccatg 60

tttcagatga ggagggagag aaggaggccg ccagactcga gaggtgggag gaactccttg 120

cacacaccct gagcttttgc cacttttatc atttttgagc aactcccttt cagctaaaag 180

gccacccctt tatcgcattg ctgtccttgg gtagaatata a 221

<210> 436

<211> 183

<212> DNA

<213> Homo sapiens

<400> 436

acaaaactct ccaataatga ctctgctcag ctcaggggca gcaggagtgg agtgtcgggg 60

gcccttggtg ctgagtgaag ataaattaaa aatcccaaca agccagtgac attatgtaca 120

ggaggaaagg ggtggggctt ccaggacaga ggccgagggt ggcagggcag gacttggagt 180

ggc 183

<210> 437

<211> 237

<212> DNA

<213> Homo sapiens

<400> 437

cagacacatg agcaggactt tggggagtgt gttttatatc tgtcagatgc ctagaacagc 60

acctgaaata tgggactcaa tcattttagt ccccttcttt ctataagtgt gtgtgtgcgg 120

atatgtgtgc tagatgttct tgctgtgtta ggaggtgata aacatttgtc catgttatat 180

aggtggaaag ggtcagacta ctaaattgtg aagacatcat ctgtctgcat ttattga 237

<210> 438
<211> 189
<212> DNA
<213> Homo sapiens

<400> 438
tcaagttaat ggcagctaaa acgctcccag tccatttatt ggccacatga ggtggtcgtc 60

aagaaacaag ttagaaggtt atgacaggaa gtagtataat aaatgcccgg cagtacgagg 120

ggttcaacag aagtgaacaa ggcacaagaa agaggtctgt gttcaggaaa caggccagtc 180

cccacatgg 189

<210> 439
<211> 246
<212> DNA
<213> Homo sapiens

<400> 439
tgaactaaaa ctatgagcct tattcaatat ctataattct atgatttttt taaattatgg 60

gaaattaatg aaagatgttt acatgaataa tgtttgccct tactgtgtta tgaatgagtt 120

ttttgtagtg tgtctgggtg catgatgcaa gagagtagga aaaatgtttt tgaaacaaaa 180

cttgacaaat atttgtaatg aaagtaaatt taaagattgc tataattgcg ctatagaaac 240

aatgca 246

<210> 440
<211> 65
<212> DNA
<213> Homo sapiens

<400> 440
ttaacagtac atttgtgtgg ctctcaaaca tccctttgga agggattgtg tgtactatgt 60

aatat 65

<210> 441
<211> 120
<212> DNA
<213> Homo sapiens

<400> 441
tacaatgatg gttgagtgaa aatacagaag gggggtttga gtattcagat ttcataaaac 60

acttccttgg aatatagctg cattaacttg gaaagaagcc tgttgggcca gaagacagaa 120

<210> 442
<211> 156
<212> DNA
<213> Homo sapiens

<400> 442

aactgatggg aaaggaccaa ttatttatag tttcccaaca aaagttttaa gatttttac 60

ctttgcatca gtgcattttt atttatatca aaaggtgcta aaatgattca atttgcattt 120

tttgatcctg tagtgcctct atagaagtac ccacag 156

<210> 443
<211> 169
<212> DNA
<213> Homo sapiens

<400> 443
tgttaaactt tggaacacct accaaaaaat aagtttgata acatttaaaa gatgggcgtt 60

tcccccaatg aaatacacaa gtaaacattc caacattgtc tttaggagtg atttgcacct 120

tgcaaaaatg gtcctggagt tggtagattg ctgttgatct tttatcaat 169

<210> 444
<211> 87
<212> DNA
<213> Homo sapiens

<400> 444
aaatgacttt caactaacct tgtgaatctt ttgcagtgta ctgtgtgcaa taccaagggc 60

atagctccct gtaatttggg aaataca 87

<210> 445
<211> 96
<212> DNA

<213> Homo sapiens

<400> 445

catatatttt ttgctacttt tgctgtttta ttttttaaa ttatgttcta aacctatttt 60

cagtttaggt ccctcaataa aaattgctgc tgcttc 96

<210> 446

<211> 269

<212> DNA

<213> Homo sapiens

<400> 446

tgctggcact gatattatcc atcatctctt tttggacact tctgtaaatg tgattggatt 60

gtttgaaaga agatttaaag tttcaaagtt ttttgttctg tttttgcttt gcatttggag 120

aaaatattga aagcagggta tgttgtttca ttcaccttga aaaaaccatg agtaaatggg 180

gatatagaat ctctgaatag ctcgctaaaa gattcaagca agggacatga attttgttcc 240

atctatcaat aatatccaga agaacaact 269

<210> 447

<211> 188

<212> DNA

<213> Homo sapiens

<400> 447

tctgtgtgtg tcctagcatg gagagttcct tccttttccc ttcagttagg ttgacccttt 60

ccatttgttt agtatccgtg cacatgtcgt actagacccc aatcaagttg cttatttaaa 120

attctttcag ctgtttccct attatttcct tactttgctg aacatgtccg ctgttttacc 180

tcactgct 188

<210> 448
<211> 246
<212> DNA
<213> Homo sapiens

<400> 448
ggagccaaca attcgagtgc aaacatgatg gctcagaccc ttctctgccc tttactagcc 60

ttcatgatct gtcgggtctc agcagctcag gccacaggag gaggtgggtc tcctgactgg 120

cctgtgcatt ctcccaaaca agatgtttaa gactcttctt tatctcgtca caaacgcaca 180

ggacacacac gcacacacat gcacacacag tttacaaacg cacggtacac acacgcatga 240

cacatg 246

<210> 449
<211> 217
<212> DNA
<213> Homo sapiens

<400> 449
agcgaaggga aggttgcggg agaaagagcg ggggccgggg ccagacgcca agaggggcgc 60

ggggagcaca gagaagcgga gggaagggcg ccacgtcgag gggccggggg aggcggtgac 120

tgggggggcgg agtggaggct gcacccggac cgcgggcgcc cagctcggtt tgggccgacg 180

gagccctctg ccgtcgcgag cccgggcctc gggaggg 217

<210> 450
<211> 172
<212> DNA
<213> Homo sapiens

<400> 450
tgcagtgcta gtcccggcat cctgatggct ccgacaggcc tgctccagag cacggctgac 60

catttttgct ccgggatctc agctcccgtt ccccaagcac actcctagct gctccagtct 120

cagcctgggc agcttccccc tgccttttgc acgtttgcat ccccagcatt tc 172

<210> 451
<211> 188
<212> DNA
<213> Homo sapiens

<400> 451
tattcctggt agaggaattt ctgtatttga aaattctcca gaaggaataa tataaactgt 60

ggactttggg tgataatgat atgtaggttc gtcagttgtt aacaaatgta tccctctgtt 120

gggggctatt gataatgggg aaggctgtgc atgtgtggga gtaggaggtg tatgggacat 180

ctctgtac 188

<210> 452
<211> 242

<212> DNA

<213> Homo sapiens

<400> 452

aaagagtcaa ctttccggcg gcgggggaga aatgataaaa gagagagagg agggcagatc 60

accacctaga agcacatcct ttgttcgcag agggggggaga aaaagtcgga gagaaagaat 120

gaaagagggg aaaaaaggca gttcggcacc cggagaaagg aggcaattcg gggagaggag 180

gaggagaaga agaaaacaca cacgcgcgca cgcacacaca caccgcggag agaaaagaac 240

ag 242

<210> 453

<211> 33

<212> DNA

<213> Homo sapiens

<400> 453

gtgagcccat atcgtactgc tgcagtccag cct 33

<210> 454

<211> 83

<212> DNA

<213> Homo sapiens

<400> 454

taaccttagg aaaccagaat agcgtttggc agacacgacg ttttcagttt acctttgaca 60

cctgccccac tccattttgc ttt 83

<210> 455

<211> 232

<212> DNA

<213> Homo sapiens

<400> 455

tgaaccaaaa tagagtcagc tgacccagca tcagccacac tttgggttgg aaaatgtttg 60

cctgttggaa ttaatttaag cttaagtata tatcaacatt attttattgt gcaattaaaa 120

caatacaaat tcatggtttt ttaaagttaa aaattttaac cactgtaaca acagtttttg 180

tgttattttc tgtattaaac atcttgttgc acgcatttga ggtcatcagg gt 232

<210> 456

<211> 275

<212> DNA

<213> Homo sapiens

<400> 456

acacaataca atcaggagtt ttcaaatttt tgattcagta tttgaatttc ttcttcataa 60

atgtagttgg aatttatcct agtatttttc tttacctgaa ggagggccat ttatttttaa 120

tttcactaca tttttctttg catgattatt aaaataaaaa ctgcctctgt tgtgtttctc 180

actggaggct ggaatgaatg atcactagaa cacaaaagag tgaatgatga cacttgaagt 240

caaagcagtt gtactgatca ccagaaccaa taaag 275

<210> 457

<211> 220

<212> DNA

<213> Homo sapiens

<400> 457

ctaattgatt agaactgagt cttttatatc aagctaatat ctagctttta tatcaagcta 60

atatcttgac ttctcagcat catagaaggg ggtactgatt tcctaaagtc tttcttgaat 120

ttctattatg caaaattgcc ctgaggccgg gtgtggtggc tcacacctgt aatcccagca 180

ctttgggagg ctgaggtggg aagatccctt actgccagga 220

<210> 458

<211> 187

<212> DNA

<213> Homo sapiens

<400> 458

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aattgtagtg tcttcatcat caattaaaga aaactgtcta aatgaattca tggatgtaaa 120

tattagtggt ccttaatgtc tttgattgct ggacatgaaa caaactgcca attaaatttt 180

gcggaga 187

<210> 459

<211> 176

<212> DNA

<213> Homo sapiens

<400> 459

tcctgcaggc atccgtgggg gaaaaaaaat ctctcagaac cctcaactat tctgttccac 60

acccaatgct gctccaccct cccccagaca cagcccaagt ccctccgcgg ctggagcgaa 120

gccttctgca gcaggaactc tggacccctg ggcctcatca cagcaatatt taacaa 176

<210> 460
<211> 266
<212> DNA
<213> Homo sapiens

<400> 460

aaatgtttga cattcattat cagaatgagg gaaaatttaa acaattccgt tttttctttt 60

gctagtaggc atattatgct aataaaatta ctaaattaaa agtgtgtcaa ggatttgaca 120

aactgccatt tttctccaga agtcaagccc ctaagtgatt gtctagaggc aagaattttt 180

tgatatgttg tctcaacaat gcttctcact tcgtcttcag gtgccccaac ccgcaagtac 240

acatactatg tactcacttg aaaatg 266

<210> 461
<211> 286
<212> DNA
<213> Homo sapiens

<400> 461

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ctgagtatat atttacatgt ctttttaaaa gggtcgttac cagagattta cccatcgggt 120

aagatgctcc tggtggctgg gaggcatcag ttgctatata ttaaaaacaa aaaagaaaaa 180

aaaggaaaat gtttttaaaa aggtcatata ttttttgcta cttttgctgt tttatttttt 240

taaattatgt tctaaaccta ttttcagttt aggtccctca ataaaa 286

<210> 462
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (214)..(214)
<223> n is a, c, g, or t

<400> 462
gctggtctcg ggcaacaagc agcctcctag gagcagaagg tgatggaggg ccacgggggc 60

agggaggagc agatggccat gtggctcagc ccctgcctgg gaaagcgagt ccacagttca 120

ctaacaaaca caataccatc cacaaacaag tagccacaaa gaccacagtt agcaaacaca 180

cacagtcaca cacacacaca cacacacaca catnacggga ggtgggcagg accgcagtct 240

gcagtgggga ggcaagtgtt agttgcatca tcaggtgg 278

<210> 463
<211> 122
<212> DNA

<213> Homo sapiens

<400> 463

aggtggtgtt ggcagaggct atcgggctgg acaaggacaa acccaaccgt gtgaccaaag 60

tggctgtgaa gatgttgaag tcggacgcaa cagagaaaga cttgtcagac ctgatctcag 120

aa 122

<210> 464

<211> 161

<212> DNA

<213> Homo sapiens

<400> 464

aatgaaattg ttaattggcc aggcacagtg ggaagcacct gtagtcccag ctactcagga 60

ggctaaagtg agagggtggc tctagcacag tcatcaaggc tgcaggaggc tatgatggag 120

ccactgcact ccagcctaga tgacaaggtg agacgctgtc t 161

<210> 465

<211> 162

<212> DNA

<213> Homo sapiens

<400> 465

tgtttttgac atcagctgta atcattcctg tgctgtgttt tttattaccc ttggtaggta 60

ttagacttgc ccttttttaa aaaaaggttt ttgcatcgtg gaagcatttg acccagagtg 120

gaacgcgtgg cctatgcagg tggattcctt caggtctttc ct 162

<210> 466
<211> 114
<212> DNA
<213> Homo sapiens

<400> 466
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ttttttttaag aagacatttt gttacataag gatgactttt ttatacaaag gaaa 114

<210> 467
<211> 223
<212> DNA
<213> Homo sapiens

<400> 467
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ttaataaaat ttaaaattaa aactgtgttg tttttttctc ttctgctaga tacatatata 120

attaaagtac tcaagttagt tgttttgcag agatgttgcc ttcagatgtt aatcaggtct 180

ctcaagtttc atggagtcta tgctgatcct ttaattgaca aat 223

<210> 468
<211> 289
<212> DNA
<213> Homo sapiens

<400> 468

tatacagaat agtcactggt cttgggctaa atggtgactt caagtgtagt ggctgcatag 60

tcaaaaatga attagatgag tacaaaagtg acgaaatgaa agaatgtcaa gaatggacca 120

caaagacagt gttttatgac ctaaagatta agatttatcc atttgtgtac aattgtggac 180

tatataaaat aaaacaagac tttgacctca gtggataaga agtatttgga tgtactaatc 240

aatatttttg gtctgggtca gtggtgggtt catctgtgtt tgttgtatt 289

<210> 469
<211> 36
<212> DNA
<213> Homo sapiens

<400> 469
agcaggatca agggccggaa ataaaggctg ttgtaa 36

<210> 470
<211> 156
<212> DNA
<213> Homo sapiens

<400> 470
aatatacctg atgcgctgta gaatgaaaat gtaaaagata acctgtatgt gttccgagct 60

ttaatttttt gtttacaaat tgaacagtgt tacatgggct gtccagtcct gattatagag 120

aggaagaaat ggtaacagta tggcagataa gaatta 156

<210> 471

<211> 298

<212> DNA

<213> Homo sapiens

<400> 471

agcaggagta agtttctcat cccatgggcg accagggcca tctcctccca ccagtggccc 60

ccactcacag ggagctggca atgccctacc tgcctgttct ccagatggag aaacaggctc 120

tgagatttca caggtcttgc ccaaagtcat tgattttgat gattaaaaag aataaacaca 180

gtgtttcctg agtagcagtg attgttatgc cttgctattt taataaagat tctattttcg 240

tataacattg tcaagtggaa acatgctgaa atctattaaa ccatctttgt ttgtggaa 298

<210> 472

<211> 98

<212> DNA

<213> Homo sapiens

<400> 472

aaagagtcaa ctttccggcg gcgggggaga aatgataaaa gagagagagg agggcagatc 60

accacctaga agcacatcct ttgttcgcag aggggga 98

<210> 473

<211> 103

<212> DNA

<213> Homo sapiens

<400> 473

gtttgtcttg cgcagtgctt actccagctg tggcatgcag gtgtcagcaa gtatgatcag 60

caatgaggcg gtggtcaata tcctgtcgag ctcatcacca cag 103

<210> 474
<211> 191
<212> DNA
<213> Homo sapiens

<400> 474
aatctctttt tttctggagg ctggcacctg attttgtatc cccctgtagc agcattactg 60

aaatacatag gcttatatac aatgcttctt tcctgtatat tctcttgtct ggctgcaccc 120

ctttttcccg cccccagatt gataagtaat gaaagtgcac tgcagtgagg gtcaaaggag 180

agtcaacata t 191

<210> 475
<211> 220
<212> DNA
<213> Homo sapiens

<400> 475
tgcccccagt atgtttagga cgcgagcccc agaaggattt gggagtaaac ttaacattca 60

ctgtgttttt gctttgcatc cgccatttgt gtgtgttttt ggactgtggg ctgtgtgtac 120

cttggttggt gactcagtga gaagaagcag gaatgccaaa gatactatga atgttttgag 180

ttttgttgct gttgttgttg agaggttgtt tcactggtat 220

<210> 476

<211> 258

<212> DNA

<213> Homo sapiens

<400> 476

gatcgtctgg taactttcta actttaaata atatgtttga gcaataattt cttgacttac 60

tgactttaca acatctttaa taattcccca ttacaaaaga taaggattta acttacacta 120

tcgccacttt cctttgtcca tctctctcca aatgtctgat agttacatca ctttttaata 180

catctattgg tttgatttta tagctttgaa caatacacta atcctctagt tcttgttcca 240

ttaactgaag atcttttc 258

<210> 477

<211> 233

<212> DNA

<213> Homo sapiens

<400> 477

gaaacacaag agacttaaag gacaggagga ggagatggcc ataggagagg agggttcctc 60

ttaggtcaga tggaggttct cagagccaag tcctccctct ctactggagt ggaaggtcta 120

ttggccaaca atcctttctg cccacttccc cttccccaat tactattccc tttgacttca 180

gctgcctgaa acagccatgt ccaagttctt cacctctatc caaagaactt gat 233

<210> 478

<211> 96

<212> DNA

<213> Homo sapiens

<400> 478

ggatcgatga tgagtccccc ataaaaacat tccttggaaa agctgaacaa aatgagtgag 60

aactcatacc gtcgttctca tcggaactga ggtcca 96

<210> 479

<211> 181

<212> DNA

<213> Homo sapiens

<400> 479

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ttgagaccca gttggagcct gagtttgaga cccagctgga acccgagttt gaggaagagg 120

aggaggagga gaaagaggag gagatagcca ctggccaggc attccccttc acaacagtag 180

a 181

<210> 480

<211> 135

<212> DNA

<213> Homo sapiens

<400> 480

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gataaaagac atttatgaag aggataaact gtgaaggtgt acagacacta aaccatagtt 120

gctaaacaca tacaa 135

<210> 481
<211> 80
<212> DNA
<213> Homo sapiens

<400> 481
agagccagga cagtgaggtc aactttgaca attccatcca cccagaagtc ttggagctgc 60

tgcttgacta tgcgtactcc 80

<210> 482
<211> 96
<212> DNA
<213> Homo sapiens

<400> 482
ggatcgatga tgagtccccc ataaaaacat tccttggaaa agctgaacaa aatgagtgag 60

aactcatacc gtcgttctca tcagaactga ggtcca 96

<210> 483
<211> 290
<212> DNA
<213> Homo sapiens

<400> 483
ttgacagtct gccttactat gaaattctag gtacaaaaat tttccttaag ctctgaagat 60

gttgatccat tgacttctgg cattcagtgt tgctgatgac aaatctgtta gcagtctatt 120

tctcatccat ttttgtgttg agctaatcgt gatgacctca tttgttttct ccctggccac 180

tttaatatct tccttctatc cttaatattc caaaatttta caatattgtg tctagatgta 240

gattgtattg ggccctctca atctggagac ttagcttgct ctgttcttca 290

<210> 484
<211> 197
<212> DNA
<213> Homo sapiens

<400> 484
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ctacagggag gctgcaccca ctccatgtta cttctgcttc gctttccccc accccacccc 120

ccccccataa agacaaacca atcaaccacg acaaaggaag ttgacctgaa catgtaacca 180

tgccctaccc tgttacc 197

<210> 485
<211> 113
<212> DNA
<213> Homo sapiens

<400> 485
tgtcactggt gaaagacgac ttggtgccca atttttaata aacacaatgc tattagcgtc 60

actccaattt agtgtctgat tgttaaatgt taatgtactg cactctacag ttt 113

<210> 486

<211> 183

<212> DNA

<213> Homo sapiens

<400> 486

ggattataat atcctcactg gccacaatct gtaaaagtcg atactggcac ttttttgcc 60

ccctcaaagg aaatatgcta atagacagcc cctttgcaaa tataattcct ccttcccaac 120

ccttcaaatt gctaaggccc cactggtcag caccttccct ttcgagtcca ggactactgt 180

tct 183

<210> 487

<211> 275

<212> DNA

<213> Homo sapiens

<400> 487

agcattaata atttccatgc atgtgtcttt ttccagtagg tatggttgaa tttatgtaaa 60

tttattgcta atcccatccc ttacgattta gagtataagc tgcgcaaggg cagaagtttt 120

tatttggttt gttcatggat gtattttaag agctgagaac agggcctgga cacaataagc 180

attcaataaa tatttactga atgaatgaac tcctacctat attcctattt ataatttggc 240

tccactttat cctactttag ctcccattca attca 275

<210> 488

<211> 123

<212> DNA

<213> Homo sapiens

<400> 488

catttaaata agaggagatc cacaaagagc aacagagata agagaagaaa ggaaataatc 60

aataaaataa ttcaagaaaa tccaaggaca tgagttttca gattgtaaga gactacttga 120

gtg 123

<210> 489

<211> 99

<212> DNA

<213> Homo sapiens

<400> 489

aattcatatc ccctgttcgt ctcatgcgcg tcctccgtcc ccaatctaaa aagcaattga 60

aaaggtctat gcaataaagg cagtcgcttc attcctctc 99

<210> 490

<211> 97

<212> DNA

<213> Homo sapiens

<400> 490

tggatcgatg atgagtcctc caaaaaaaca ttccttggaa aagctgaaca aaatgagtga 60

gaactcatac cgtcgttctc atcggaactg aggtcca 97

<210> 491

<211> 119

<212> DNA

<213> Homo sapiens

<400> 491

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atgtctgtta ctgaggaggc accagcataa agtattttat cacttcagac gctgacaat 119

<210> 492

<211> 121

<212> DNA

<213> Homo sapiens

<400> 492

ttatatttat gtttagcacc gtcagtgttc ctatccaatt tcaaaaaagg aaaaaaaaga 60

gggaaaatta caaaaagaga gaaaaaaagt gaatgacgtt tgtttagcca gtaggagaaa 120

a 121

<210> 493

<211> 168

<212> DNA

<213> Homo sapiens

<400> 493

gtttgagcta tcgaagagta agtaaccaga aatttgagaa cagcctgggc agcatagtga 60

gaccccatct ttacaaaaac ttcacagatt agccaggtat ggtggcattt tcctgtagtc 120

ccagctactc agaatgctga ggcaggagag tggcttgtga ccaagagt 168

<210> 494
<211> 47
<212> DNA
<213> Homo sapiens

<400> 494
aggataaact tgtgtggtgt agagaagtta aaatcctcac gttgtac 47

<210> 495
<211> 286
<212> DNA
<213> Homo sapiens

<400> 495
acttcaggga agtttcataa aaggaagaat tttaactcag cgtagaaaga tgggtaaatt 60

ttcctcatgt gaaggtgtac tgcctggggt gctgcaggct ggagatgagt attaaaatag 120

gaggagagtg agtgaaagca caggaggagg aagggtcagg caagtttggt gaacacagca 180

actggctata gaacaggagc agtgggagaa agtccagaaa ggtctgctga gcttcagttg 240

tacaaagctg tggagtttgg cctttggtca tggctagatt aggtct 286

<210> 496
<211> 94
<212> DNA
<213> Homo sapiens

<400> 496

tggatcgatg atgacctcaa tacatgcatt ccttggaaag ctgaacaaaa tgagtgaaaa 60

ctctataccg tcgtcctcgt caaactgagg tcca 94

<210> 497
<211> 174
<212> DNA
<213> Homo sapiens

<400> 497
gtttgaggta tttaactgac acctaagtgg atctgttgag gaaacagttg gatatacaaa 60

tttagtgttt aaggcagact tccaggcttg aaggaaaaat ttggaagtca tcacgacata 120

tatgtggtat ttaaaattgt gaggttcaag gaccaagccc cataccattt agag 174

<210> 498
<211> 255
<212> DNA
<213> Homo sapiens

<400> 498
tggagatagc tcttaaagat ataaatgttt atggctgaaa tgttatggca tcttggattt 60

gctttaaaat aacccagctt gctgcaggag gtgggtattg tgtgtgtggg aaggtgggga 120

ggctgcggga ggaagagatg acccaagatt aggcagatgt tgttaactgt ggaagcaggg 180

tggtgagtgg gggctcatga cattatgctc tctactttgt gtacgtgtga acatttccgt 240

aataaaagat gcctt 255

<210> 499
<211> 137
<212> DNA
<213> Homo sapiens

<400> 499
ggatttttc ccctgtagta gtgaggtaac atgcttgaat gtcactgtga tatttatttc 60

ctctttgttc agttgttttt gaattcctgt taagtacatg ttttaatact ttgagcgatt 120

taagatactt ttctttt 137

<210> 500
<211> 33
<212> DNA
<213> Homo sapiens

<400> 500
aaacgatgat aatctttact ggtgaaaagg atg 33

<210> 501
<211> 195
<212> DNA
<213> Homo sapiens

<400> 501
tatgagttat tcaaggagga gacttttaa agacagcaac gcaattcttg taacttgtgt 60

aaatagcccc atctttcaga gtgataccat ttctacattt gataatgcct gtattcctgt 120

aggatgtata tagtttaggg gatttttttt ttgtttggtt ttgtttttta gaagtcaata 180

tgtctggttt tattt 195

<210> 502
<211> 255
<212> DNA
<213> Homo sapiens

<400> 502
attattttga tagcagatgt gctatttatt tatttaatat gtataaggag cctaaacaat 60

agaaagctgt agagattggg tttcattgtt aattggtttg ggagcctcct atgtgtgact 120

tatgacttct ctgtgttctg tgtatttgtt tgaattaatg acctgggata taaagctatg 180

ctagctttca aacaggagat gcctttcaga aatttgtata ttttgcagtt gccagaccaa 240

taaaatacct ggttg 255

<210> 503
<211> 217
<212> DNA
<213> Homo sapiens

<400> 503
gtgtgttaaa atgagggtct cactgcttta ggattgaagt ggctggaaag agtgatgcct 60

ggggaaggag atggagttat gagggtactg tggctggtac tttctgtact aaacatttcc 120

tttttctatt ttaccactaa ttttgtttta aactgtgagc cgtccaagtc agaagaagac 180

agcaaaaaaa gcaacttttc caacatacaa tttactt 217

<210> 504
<211> 92
<212> DNA
<213> Homo sapiens

<400> 504
cctgcctggg aaagcgagtc cacagttcac taacaaacac aataccatcc acaaacaagt 60

agccacaaag accacagtta gcaaacacac ac 92

<210> 505
<211> 251
<212> DNA
<213> Homo sapiens

<400> 505
atataattgg acaaacgctg gcaaaaagaa aaaaatggta agcaaaaaac ccaagataaa 60

gtttcgagga catcaggcct tttgaaatac aatgtcaaat gacacattgt acggtttcaa 120

aaaatccgct agacatgtca taagttttaa ctgtaatgcc caggaaagga tatcttaaaa 180

tattctaaac ttgtgtaaca aaggaataat taactgtaat agtttttcaa taaatcgagt 240

tgggtgtttc c 251

<210> 506
<211> 261
<212> DNA
<213> Homo sapiens

<400> 506

gaatggttac tgtttatact gtggtatgtt tttgattaca gcagataatg ctttcttttc 60

cagtcgtctt tgagaataaa ggaaaaaaaa tcttcagatg caatggtttt gtgtagcatc 120

ttgtctatca tgttttgtaa atactggaga agctttgacc aatttgactt agagatggaa 180

tgtaactttg cttacaaaaa ttgctattaa actcctgctt aaggtgttct aattttctgt 240

gagcacacta aaagcgaaaa a 261

<210> 507

<211> 175

<212> DNA

<213> Homo sapiens

<400> 507

tatttcttgc tattgtgata tgacaagaga cttaacttat cttgctctgt tttcccctgt 60

acacgctgta tataggggtc aatgtgatgc tgctggagac gagaataaac tggactagaa 120

tagtgcattg tatttagtct gtattgatca tggatgccct ccttaatagc catat 175

<210> 508

<211> 251

<212> DNA

<213> Homo sapiens

<400> 508

gaaccgcaga ttatggttaa tccaattctg tgcacctgag gtccataaat aaaagaataa 60

gtattgaaat gaaagaatga cagaaagaat gaatggacac atgaacgact gaattagaaa 120

tggaaatgcc tggcacagcc aggaaggagc tgcccatggg attgtcattc atttcactct 180

gggcacctga ggtccataag cgtgaaaaga ggcaggaaga gaagtgtcag ggagtcaaag 240

atagagctaa g 251

<210> 509
<211> 237
<212> DNA
<213> Homo sapiens

<400> 509
ttattttatt tcgctatttc cagtttgaag ctactatcat gggcgtttag agttatacaa 60

atgacactta caaaaaataa aagaccaaga cacccagagt gagatgcatg ttggggacgg 120

gggaggctgg cagcaggggg gccccggcgg ctcaccccag ggctcccgga gggggctgtt 180

tccatccacc acccaaaaaa acaccacaag ggtcagtcct agcccacccg acagctt 237

<210> 510
<211> 133
<212> DNA
<213> Homo sapiens

<400> 510
gtatggatgg gtatgttgag actcaattac ttttttatta gcttccccgt ttggaagatc 60

ccaaacacca aagatggaag gtgaaaataa agactgcgtg accgggaaga aagtttgaat 120

tactaatagt ggg 133

<210> 511
<211> 263
<212> DNA
<213> Homo sapiens

<400> 511
aatcaaccaa tgcaaccagt ttgtgagaaa aaaaaaaaaa agccgaaaaa aaaaaaaaaa 60

aacacctgaa tgcggaagag ctcggctccc gtttagcatt ttgtacttaa ggaaataaaa 120

aaccaacaaa ggatttcaca ttttttttaaa aagtgaagat tgctgtatac tatttattca 180

acttataatt tatgttactc cttgatcttt gtcttttgtc atgacaaagc atttatttaa 240

taaagttatg cattcagcaa ctt 263

<210> 512
<211> 48
<212> DNA
<213> Homo sapiens

<400> 512
taggttgtca acaggtacta tttgtcacat aactaacttt cgaggcac 48

<210> 513
<211> 161
<212> DNA
<213> Homo sapiens

<400> 513

attagtgaac ttatctttgc agctgagtac ttaaattctt tttaaaaaga tacccttttgg 60

attgatcaca ttgtttgacc cagtatgttt tgtagacacg ttagttataa tcaccttgta 120

tctctaaata tggtgtgata tgaaccagtc cattcacatt g 161

<210> 514

<211> 286

<212> DNA

<213> Homo sapiens

<400> 514

gtcttcacca actaagaaag ctctgttatt ctggcctggg tgcttgctcc agactcagga 60

acatctggtc aacacaagca tcactgggct ggggaattgt gtgtgtgctg catcatctcc 120

gactctcttg tagttccttc cttccctccc tcactcttac atgcagacac agacagacac 180

agtctggttg ggacatgcag tggcagctcc tggtgtataa catctttcac acaccttgag 240

tctatctgct tgctgccttt gactgatcct gaaatggttg gccttt 286

<210> 515

<211> 208

<212> DNA

<213> Homo sapiens

<400> 515

gaggccccag aggacttatc tcagctgtac atgctctgcc tgtggagaca tggcttttct 60

ttgtgctgtg gcagactggg gctttggaag tggtgtatgt ttaacttacc tgagagtgag 120

agatgtgtag gaagaatagc tggaagaaag tgaaagatga gtgccagtac ttttggcctg 180

ttatccagta gagagaaagt gacagtga 208

<210> 516
<211> 201
<212> DNA
<213> Homo sapiens

<400> 516
aactctgtaa ggaggaccat gtcagactat tgtaagctaa gcattaggac tgatacaaat 60

aatatatgct cctggcatag aaaaataaac cacagagaac gagttcaaag aatagcaaag 120

aaagaaagag gacccagtgg gcgaaagatg agagtgtact tttaccaaaa gttatctaag 180

cctgagcact tgaagtctgc a 201

<210> 517
<211> 119
<212> DNA
<213> Homo sapiens

<220>
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<222> (91)..(91)
<223> n is a, c, g, or t

<400> 517
aaaatagaga gacatacctg gctccaaaac aaggctgtat cttctgccac tgtaataaaa 60

tagatgcaat tgaggttcat aaataaaaga ntaaatactt aaacgtgaaa ggtgactaa 119

<210> 518
<211> 36
<212> DNA
<213> Homo sapiens

<400> 518
ataatgaaag ttagtaacgt ccattattta ataaag 36

<210> 519
<211> 91
<212> DNA
<213> Homo sapiens

<400> 519
tgtacagggt cattttgaca gtaactggta tattcctttg cattttatgt tgcattgcca 60

atttttagtg tatccagttt gaaagtataa t 91

<210> 520
<211> 178
<212> DNA
<213> Homo sapiens

<400> 520
tactgatctt tatattacag attttttttt cttttaggat tagttcagct tgccccccct 60

ttccatttcc accatttata gtgagcctct ccataattag tgccaaccat tagtttcgtt 120

catattttta caccaggagt caacaaactg tggccattgg ccaaatatgg cctcccaa 178

<210> 521
<211> 242
<212> DNA
<213> Homo sapiens

<400> 521
aggaagtacc cgctccataa gacccttaca tttggacagt caaggtgcac aattgtatgt 60

gaccacaacc atgcaccttg gacataaatg tgtgtaactg cacatggccc atcccatctg 120

aataaggtcc tactctcaga ccccttttgc agtacagtag gtgtgctgat aaccaaggcc 180

cctcttcctg gcctgttaac gtatgtgatt atatttgtct gggttccagt gtataagaca 240

tg 242

<210> 522
<211> 199
<212> DNA
<213> Homo sapiens

<400> 522
gggagtcaat gaatagtacc taaaatggaa accaaacaaa acaacttcag gaagtaacaa 60

gggcttgctt agagacatga cggtaaaccc tgaaccatca gctaaaagag gtagatagca 120

gtggttgccc ctggggagag gtaaatgtga tggagaggga acaactgtgt acaaacatgt 180

gactttacgt tttgatcaa 199

<210> 523
<211> 127
<212> DNA
<213> Homo sapiens

<400> 523
aagagttaaa cagtctagag tgaagggaat gttttaaaat ccagaggcga tcaagtgaag 60

ccaacctttg gaggcccgta gaagtcattt ggaggaattt ggacttcgtg cagtaggaaa 120

gagggaa 127

<210> 524
<211> 46
<212> DNA
<213> Homo sapiens

<400> 524
gacaggggtt ctaattactg tctgtgagag ttactacttt gtaact 46

<210> 525
<211> 115
<212> DNA
<213> Homo sapiens

<400> 525
taatattttt tgctgcctag gcaaatggct tttgtgaaaa cacttgtatg aaaagcaata 60

caccatttgt ttttacttac caatcactat cattaggttt tgatgcaaat gggaa 115

<210> 526

<211> 138

<212> DNA

<213> Homo sapiens

<400> 526

ttcccaagcc catgagtcct tgaaaatatt ttttatatat acagtaactt tatgtgtaaa 60

tacataagcg gcgtaagttt aaaggatgtt ggtgttccac gtgttttatt cctgtatgtt 120

gtccaattgt tgacagtt 138

<210> 527

<211> 269

<212> DNA

<213> Homo sapiens

<400> 527

cttaggatat gaaatcttca gaggatggta gaagagaaag gtaaatgcca taagaaagta 60

gagtacttgt ggtcattgaa accatggaat ttactcaggg atagtgtata tagtgagaaa 120

tcaggtaact aagatttgag cctaaacgta atctgtaaaa ggggagctca aaggaaaagg 180

gaatgggagg accggatttt gtaaggatag tagggcaaat gttaagagag agaatgagag 240

agttgagtat ggcaaagagt gactcaatt 269

<210> 528

<211> 282

<212> DNA

<213> Homo sapiens

<400> 528

tcacctcctg ctggctaccg gggcaggcat gcacccggtg ccagccccgc tctgggcacc 60

acctgccttc cagcccctcc aggacccggt ccccctgctg cccctcactt caggaggggc 120

ctggagcagg gtgaggctgg actttggggg gctgtgaggg aaatatactg gggtccccag 180

attttgcttt aaggggggca gacccctttgc caggctggat tgtacgggcc ccaccttcgc 240

tgtgttcttg ctgcaaagtc tggtcaataa atcactgcac tg 282

<210> 529

<211> 131

<212> DNA

<213> Homo sapiens

<400> 529

atacctgtta aatagatcaa ttttgattgc ctactatgtg aactcactgt taaaggcact 60

gaaaatttat catatttcat ttagccacag ccaaaaataa cgcaatacct atgttagcat 120

tttgtgaact c 131

<210> 530

<211> 183

<212> DNA

<213> Homo sapiens

<400> 530

tcacctgagg cgttcaaaag atataaccaa ataaacaagt catccacaat caaaatacaa 60

cattcaatac ttccaggtgt gtcagacttg ggatgggacg ctgatataat agggtagaaa 120

gaagtaacac gaagaagtgg tggaaatgta aaatccaagt catatggcag tgatcaatta 180

tta 183

<210> 531
<211> 263
<212> DNA
<213> Homo sapiens

<400> 531
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tgatccgccc acctcggcct cccaaagtgc tgggattaca ggtgtgagcc accgtgcccg 120

gcctcttttt atttattcct aaaatattac cttgaggcca aattctgcgc ttaaggagaa 180

tgtgcaccaa gtgctggggt gggggctggt tataaacgag gccacaaatc atgcttgtta 240

ataaattgtg tggttcaaat ctg 263

<210> 532
<211> 140
<212> DNA
<213> Homo sapiens

<220>
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<222> (71)..(71)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (82)..(82)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (94)..(94)
<223> n is a, c, g, or t

<400> 532
cacagccaaa acctctacat ccctacattc acacacttcc tccacacacc atcctgaagt 60

caccccaact nctaccacca anatcaccac caancccacc agtataggaa gcagcacacc 120

catggcccac actacctcag 140

<210> 533
<211> 134
<212> DNA
<213> Homo sapiens

<400> 533
cagaggagct ttattagagg gacagggtga aacatattta caccggccga gcagggacct 60

taagaagcag gcgtgggagc agggtcccag ctcagacgag ttccaccttg gcattggggt 120

acaccgccac cacg 134

<210> 534
<211> 207

<212> DNA

<213> Homo sapiens

<400> 534

gagtatgagt atgcctgagt gtgaatgtgt atgagtgtga atgagtgtgt gcacatgagt 60

gcacgggtgt cagcatgtgt atataagtgt gggcatgtgt atgtgattgt gtgagtgtgg 120

gcaggtgagt gtgttgggga tgtgggttag ggtggggagt ggtgctttct ctagtgtgtc 180

ctccggaaca tcttgcctac ctagcaa 207

<210> 535

<211> 113

<212> DNA

<213> Homo sapiens

<400> 535

gaaaactgtt agatgcacac tgttgatttt catggtggat tcaagaactc cctagtgagg 60

agctgaactt gctcaatcta aggctgattg tcgtgttcct ctttaaattg ttt 113

<210> 536

<211> 66

<212> DNA

<213> Homo sapiens

<400> 536

gtttttatta aaacacaaac gcacacacac acaaaattag ccaggcatgg tggtccatcc 60

ctgtaa 66

<210> 537
<211> 66
<212> DNA
<213> Homo sapiens

<400> 537
gtcaccccag agtcattgtc acctcagagt cattgtcact ccagagtcat tgtcacctca 60

gagtca 66

<210> 538
<211> 128
<212> DNA
<213> Homo sapiens

<400> 538
caggctgggc cgtgagcagg tgggccgttg agttacctct gtgctggatc ccgtgccccc 60

acttgcctac cctctgtcct gccttgttat tgtaagtgcc ttcaatactt tgcattttgg 120

gataataa 128

<210> 539
<211> 49
<212> DNA
<213> Homo sapiens

<400> 539
tgattactag tgtaaactgg ttattgagat agattatgac attggtgga 49

<210> 540

<211> 209

<212> DNA

<213> Homo sapiens

<400> 540

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attgtcaccc cagagtcatt gtcaccccag agtcattgtc accccattgt caccccagag 120

tcattgtcac ctcagagtca ttgtcactcc agagtcattg tcacctcaga gtcaatgtca 180

ccccagagtc atcgtcaccc cagagacat 209

<210> 541

<211> 237

<212> DNA

<213> Homo sapiens

<400> 541

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atataccatt ttgggtcctg aggataagag agatgagggc attagatcac tgacagctga 120

agatagaaga acatctttgg tttgattgtt taaataatat ttcaatgcct attctttgca 180

aggtactatg tttcgtaaat taaataggtc tggcccagaa gacccactca attgcct 237

<210> 542

<211> 62

<212> DNA

<213> Homo sapiens

<400> 542

tatgtaatta taagatgaag cgtagtgaat tgtacagctg ttgtaataat gacctatttc 60

ta 62

<210> 543

<211> 277

<212> DNA

<213> Homo sapiens

<400> 543

tacccccttt tatatctaat gtagaaaaag cgaaattgaa tctggaaagc aaactgttgt 60

atatagttgc ggtaacaatc atgaagagag agccgggctg tcccctcagt aattcatttt 120

aaataacaaa ttatttaaaa ataaaattca tgccagagcc agctgaagag gccttccttc 180

atcaccactg aggccacccc caatctgggc cctctgtcca tctggcatgt ctcctcccag 240

caagattcat ctgttcaatg ccatttgcgt ttcaata 277

<210> 544

<211> 203

<212> DNA

<213> Homo sapiens

<400> 544

ttttcccaac tctatagcta gatttaaaag tcccagtaaa attttgtaaa caaaatcata 60

taagaaaagg caaggctggc tcttccctat ggtcctttag tggagctata tttgcataga 120

tcctagacaa atgatgcaaa acaaattccc tccaatttcc actagcaatc tccctaattc 180

gctcaaccct tacataagca tca 203

<210> 545
<211> 75
<212> DNA
<213> Homo sapiens

<400> 545
agaacctgag tataaattta ctttctcaaa ttcttgccat gagaggttga tgagttaatt 60

aaaggagaag attcc 75

<210> 546
<211> 248
<212> DNA
<213> Homo sapiens

<400> 546
aaaaactcaa cctatctggt gttttatttt aatggataaa aatgtaattt ttttaaggta 60

gcaacttatt tccaaattaa tatagatgaa aaatagatac caattagact aaattgaaag 120

ctttttgttc tatatttgca tagcctttga aatatttctt agtgcctagg aggtctgggg 180

attcctcttt cgtggtggtc actaacctta cttgatgcag ataaaatcac ttgtcaatgc 240

aaaatgtg 248

<210> 547

<211> 174

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (27)..(27)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (78)..(78)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (96)..(96)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (123)..(123)

<223> n is a, c, g, or t

<400> 547

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agtggagtcg ggggcttngt gctgggcctg ctcttncttg gggccgggct gttcatctac 120

ttnaggaatc agaaaggaca ctctggactt cagccaacag gattcctgaa ctga 174

<210> 548

<211> 251

<212> DNA

<213> Homo sapiens

<400> 548

agagagtgga catttgtcgg gaaactccta acatatgccc ccattctgga gagaacacag 60

agtacgacac aatccctcac actaatagaa caatcctaaa ggaagatcca gcaaatacgg 120

tttactccac tgtggaaata ccgaaaaaga tggaaaatcc ccactcactg ctcacgatgc 180

cagacacacc aaggctattt gcctatgaga atgttatcta gacagcagtg cactgcccct 240

aagtctctgc t 251

<210> 549

<211> 88

<212> DNA

<213> Homo sapiens

<400> 549

gccctcatgg ttggcatcac atatgcctgc atgccattaa caccagctgg ccctaccccc 60

ataatgatcc tgtgtcctaa attaatat 88

<210> 550

<211> 284

<212> DNA

<213> Homo sapiens

<400> 550

aactgaaatg tcaacctgtg gactgtggca ttcctgaatc cattgagaat ggtaaagttg 60

aagacccaga gagcactttg tttggttctg tcatccgcta cacttgtgag gagccatatt 120

actacatgga aaatggagga ggtggggagt atcactgtgc tggtaacggg agctgggtga 180

atgaggtgct gggcccggag ctgccgaaat gtgttccagt ctgtggagtc cccagagaac 240

cctttgaaga aaaacagagg ataattggag gatccgatgc agat 284

<210> 551
<211> 214
<212> DNA
<213> Homo sapiens

<400> 551
gacttattcc cgctgactga gtttttgagg ggctaccagg aaagcgcctc caaccctagc 60

aaaagtgcaa gatggggagt gagaggctgg gaatggaggg gcagagccag gaagatcccc 120

cagaaaagaa agctacagaa gaaactgggg ctcctccagg gtggcagcaa caataaatag 180

acacgcacgg cagccacagc ttgggtgtgt gttc 214

<210> 552
<211> 72
<212> DNA
<213> Homo sapiens

<400> 552
gaatggcagt accagaaggc attggttaag tgtcccagga accacacaag cagtgactcc 60

taaagaagtt ca 72

<210> 553
<211> 180
<212> DNA
<213> Homo sapiens

<400> 553
gcttccttaa aggtcagaac atcaggccaa agtacaacgt ttaatttcag aacttgcctt 60

ccaatttacg cattttcaat ttgctctccc catttgttga gtcagaagaa gcagcattgc 120

ccagaaacag gtattacgta acatgcacat actttaaaaa gtactcatcc cttgttttct 180

<210> 554
<211> 173
<212> DNA
<213> Homo sapiens

<400> 554
gctgagtatg ttaagctctt tatgactgtt tttgtagtgg tatagagtac tgcagaatac 60

agtaagctgc tttattgtag catttcttga tgttgcttag tcacttattt cataaacaac 120

ttaatgtttt gaataatttc ttactaaaca ttttgttatt gggcaagtga ttg 173

<210> 555
<211> 243
<212> DNA
<213> Homo sapiens

<400> 555

aaaacttggc acttttttcgt gtggatcttg ccacatttct gatcagaggt gtacactaac 60

atttcccccg agctcttggc ctttgcattt atttatacag tgccttgctc ggcgcccacc 120

acccccctcaa gccccagcag ccctcaacag gcccagggag ggaagtgtga gcgccttggt 180

atgacttaaa attggaaatg tcatctaacc attaagtcat gtgtgaacac ataaggacgt 240

gtg 243

<210> 556
<211> 201
<212> DNA
<213> Homo sapiens

<400> 556
ccctgctgcc tctgatcgta ggaattgagg agtgtcccgc cttgtggctg agaactggac 60

agtggcaggg gctggagatg ggtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgcgcg 120

cgcgccagtg caagaccgag attgagggaa agcatgtctg ctgggtgtga ccatgtttcc 180

tctcaataaa gttcccctgt g 201

<210> 557
<211> 174
<212> DNA
<213> Homo sapiens

<400> 557
tgggcgtccg ggcccccaat attcacgcac tcgcaccacg cactcatatt ccctcacccc 60

accatcacgg ccccaaagaa ggtcttccct ctcgcgaagt ccaccatatc ggggtgactg 120

atgttggacg tacaccctct cgcccctccg gagctgcacc aggccgccga accc 174

<210> 558
<211> 259
<212> DNA
<213> Homo sapiens

<400> 558
ctacaacagg caggtactgc tgccaggggg ctttgaacta gtgcctgcta cccaggacac 60

ccgggccatg cccctggctg ggcagcctgg cacaagtgaa gaagaaggca gtgggaaaac 120

tgggtttatt tcaaggcagc agcctgagcc caggagcaga ggacccagtt gttataaggc 180

gctgggagag gatgggcagc tcccactgcc ccagagcgga gctcgaagca cccaggttgc 240

ccacggaaaa tccaataaa 259

<210> 559
<211> 60
<212> DNA
<213> Homo sapiens

<400> 559
tttctggggt ctttgagctc caaaaaataa acacttcctt tgagggagag ccccccccca 60

<210> 560
<211> 159
<212> DNA

<213> Homo sapiens

<400> 560

gagcttcctt cttcgttctt ggcaccatct tatgaaaagg gtccagatta agatttttga 60

ctgagtcatt ctaaagtaag ttgcaagacc catgatacta gaccactaaa tacttcatca 120

cacacctcct aagaataaga accaacatta tcacaccaa 159

<210> 561

<211> 278

<212> DNA

<213> Homo sapiens

<400> 561

ggaagccatt atcctaaatg aactcactca gaaacagaaa accaaatacc acatgttctc 60

acttataagt agaagctaaa cattgagtac acatggatac aaagaaggga accgcagaca 120

ctggggccta cctgaggtcg gagcatggaa ggagggtgag gatcaaaaaa ctacctatct 180

ggtactatgc tttttatctg gatgatgaaa taatctgtac aacaaaccct ggtgacatgc 240

aatttaccta tatagcaagc ctacacatgt gcccctga 278

<210> 562

<211> 241

<212> DNA

<213> Homo sapiens

<400> 562

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aggaacgggg atctttctag cttttggcca cttcctggga cctcacgccc ctgttgacag 120

atggagattg ggcagcaggg ccttgctgca ttgttatctg ctgttccgac ttggtttgtc 180

ttgtccaagg gtgacgaaag agccaggcac cagggtctca tgggatgagg tccaactttt 240

t 241

<210> 563
<211> 283
<212> DNA
<213> Homo sapiens

<400> 563
gtgagaggta acactctaaa tagcccattt catgctcaag acatccaagt caaagaaacc 60

caatagcaca ggtgagtccc ctctgttccc ccccaacacc ccactcacat cagggcccct 120

gccctggagt gtcaccttta ttagctgtga gagacacccc agagccctgg gcactgtcag 180

tgattggggt agaacaaaaa caggacctgg tcagagccca cagatgtggc tagaggaact 240

gtggggtggt gagctccctc ataggctcct gaccacaata tcc 283

<210> 564
<211> 186
<212> DNA
<213> Homo sapiens

<400> 564
gagacttgta tgaaagatgg ctgtgcctct gcctgtctcc cccaccgggc tgggagctct 60

gcagagcagg aaacatgact cgtatatgtc tcaggtccct gcagggccaa gcacctagcc 120

tcgctcttgg caggtactca gcgaatgaat gctgtatatg ttgggtgcaa agttccctac 180

ttcctg 186

<210> 565
<211> 267
<212> DNA
<213> Homo sapiens

<400> 565
gcatttcaaa gtgacttcta tgaagctttt tttttaatgt gaaattttca gaatgttgtt 60

tttttcatgt agatactcca ggaagagtta agcactgctt tcagttttaa tatccacctt 120

gaggggtcgc tgcttgaggg ctcttatccc aggggacttt ttaattcgga tgttacttaa 180

tgtggcttct ctaatgtagt ttctttgatt accgactaca caattatgta ccatcacagt 240

attagtggaa aagtaccatg tgattta 267

<210> 566
<211> 45
<212> DNA
<213> Homo sapiens

<400> 566
tgcttataca cttacacttt atgcacaaaa tgtagggtta taata 45

<210> 567

<211> 241

<212> DNA

<213> Homo sapiens

<400> 567

aactggaccc tgtcgttctc catcttctca gtcagttgtt tcaagtgttc ctgataactc 60

ctctccttct gttccatcat ctgctcattc tttctttgca tttcctgcaa cattttgct 120

gaagcctgtg cagactcagc tttcacaagt tccacttcaa tctccttttc tttttctgtg 180

agagtctggt ctgtctggag aattgcatca gtcatagact ccttggattt caagtatgtc 240

t 241

<210> 568

<211> 159

<212> DNA

<213> Homo sapiens

<400> 568

gagcttcctt cttcgttctt ggcaccatct tatgaaaagg gtccagatta agatttttga 60

ctgagtcatt ctaaagtaag ttgcaagacc catgatacta gaccactaaa tacttcatca 120

cacacctcct aagaataaga accaacatta tcacaccaa 159

<210> 569

<211> 107

<212> DNA

<213> Homo sapiens

<400> 569

tactcccgag gctctgtaca ttgctgccac atactcctgc cagcttgggg gagtgttcct 60

tcaccctcac agtatttatt atcctgcacc acctcactgt tccccat 107

<210> 570

<211> 273

<212> DNA

<213> Homo sapiens

<400> 570

tagaagatga cctcgttccg gagctgggta tttcaaattt gctttcatcc agccactgcc 60

caaagccatt ttcctgccta ctggatgctt acagtgactg tggatacggg ggttcccttt 120

ccccattcag tgacatgtcc tctttgcttg gtgtaaacca ttcttgggag gacacttttg 180

ccaatgaact ctttccccag ctgattagtg tctaaggaat gatccaatac tgttgccctt 240

ttccttgact attacactgc ctggaggata gca 273

<210> 571

<211> 228

<212> DNA

<213> Homo sapiens

<400> 571

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tcaagcctgc catcaaggac atttttttaag acccaactgg catgagttgg ggtaatttcc 120

tattattttc attttggaca acttttttaa cttatattct ttatagagga ttccccaaaa 180

tgtgctcctc atttttggcc tctcatgttc caaacctcat tgaataaa 228

<210> 572
<211> 286
<212> DNA
<213> Homo sapiens

<400> 572
gctgtgttgg ccctcacttg ggattctcag cagttacatg aaagttgtgc tgataatctc 60

ttctcttgta ccaattttag tcaggcagaa aatggtaaac atgagggtgc tcttgtgact 120

taatttttgt tcaagggact aaattgctta tgtttattcc ctgtcagcgg agtggagaat 180

gtcattcatc aataaaccaa agccaatagc tggagaattg agatctggtt gaaagtggtt 240

tatggtttac atgctgtact atcctgagga attgcgagat attgct 286

<210> 573
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (214)..(214)
<223> n is a, c, g, or t

<400> 573

ccctgcgcct atcaggtcgt gagtccaggg gtctacaagt cccgggcccc ccagttcacg 60

attctggcgc ggacttcgct cccccaagac aacactcgga agccagggcc cgcggcctac 120

aacgtggatc agcaccggaa gccccgcggc tggagtttcg ggatccggca ctcggactac 180

ctggccccgc tggtgaccga cgcggacaac tganccgcca ggcgggagcg gccccacacg 240

tgtttgctta aagtctgcga gtccgc 266

<210> 574
<211> 270
<212> DNA
<213> Homo sapiens

<400> 574
ccagggctga gagacacgtg aaggaagatg atgggaggaa aagcccagga gaagtcccac 60

cagggaccag cccagcctgc atacttgcca cttggccacc aggactcctt gttctgctct 120

ggcaagagac tactctgcct gaacactgct tctcctggac cctggaagca gggactggtt 180

gagggagtgg ggaggtggta agaacacctg acaacttctg aatattggac attttaaaca 240

cttacaaata aatccaagac tgtcatattt 270

<210> 575
<211> 227
<212> DNA
<213> Homo sapiens

<400> 575

gaagatgaag ccccatgctc agtcccctcc catcccccac gcagctccac cccagtccca 60

agccaccagc tgtttgctcc tggtgggagg tggcctcctc agcccctcct ttctgacctt 120

taacctcact ctcaccttgc accgtgcacc aacccttcac ccctcctgga aagcaggcct 180

gatggcttcc cactggcctc caccacctga ccagagtgtt ctcttca 227

<210> 576
<211> 279
<212> DNA
<213> Homo sapiens

<400> 576
gcatttgctg tgtttcgtta gcatctggct ccaggacaga ccttcaactt ccaaattgga 60

tactgctgcc aagaagttgc tctgaagtca gtttctatca ttttgctctt tgattcaaag 120

cactgtttct ctcactgggc ctccaaccat gttccctttt ttttagcacc acaaataatc 180

aaaacccaac atgactgttt gttttccttt aaaaatatgc accaaatcat ctctcatcac 240

ttttctttga gggttttagt agacagtagg agttaataa 279

<210> 577
<211> 123
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (52)..(52)

<223> n is a, c, g, or t

<400> 577

gcggactcgc agactttaag caaacacgtg tggggccgct cccgcctggg tngcagttgt 60

ccgcgtcggt caccagcggg gccaggtagt ccgagtgccg gatcccgaaa ctccagccgc 120

ggg 123

<210> 578

<211> 82

<212> DNA

<213> Homo sapiens

<400> 578

gtgctcagta gtcagactgg atagtccgtt tttgcttatc cgttagccgt ggggatttag 60

caggaagctg tgagagcagt tt 82

<210> 579

<211> 151

<212> DNA

<213> Homo sapiens

<400> 579

acacagaaga gtgacatgtt tacaaacctc aagccagcct tgctcctggc tggggcctgt 60

tgaagatgct tgtattttac ttttccattg taattgctat cgccatcaca gctgaacttg 120

ttgagatccc cgtgttactg cctatcagca t 151

<210> 580
<211> 82
<212> DNA
<213> Homo sapiens

<400> 580
tttaaaatac tcagaggaca ggatcactgt ggaatcgaat cagaagtggt ggctggaatt 60

ccacgcaccg atcagtactg gg 82

<210> 581
<211> 109
<212> DNA
<213> Homo sapiens

<400> 581
aagagaagac tcacagtatc aggtctactg aaggagatac ggtgattcct gttcttggct 60

ttgtagattc atctggtata aacagcactc ctgagttatg acctttga 109

<210> 582
<211> 118
<212> DNA
<213> Homo sapiens

<400> 582
tttgaagatt agaaatttag ccgtaggtaa agaatacaaa ggaaaaataa ttttaaaatc 60

atcaaccaga tcaacaaaat atatgttaat gccgagactt tgaattagag tgcgaatt 118

<210> 583

<211> 242

<212> DNA

<213> Homo sapiens

<400> 583

catcttctag cagatctttt tcagttaaga ttacttgttc ttccatgtat tcatatttag 60

ccagctcctt gatcagccgc agtatgtcac tgcagtcggc ggcagtggct gggcggatca 120

cgaatttagc cattttcgtc ttttgctttt cttccctttg cggaccaggc ccctgtactt 180

gaacagtagg aggaggtggt tcctcattcg tctcccggga gcgtcctctt ctcagtcagg 240

ct 242

<210> 584

<211> 34

<212> DNA

<213> Homo sapiens

<400> 584

gaaatcattg tgggattgct agctttccct ctta 34

<210> 585

<211> 272

<212> DNA

<213> Homo sapiens

<400> 585

caacctctta caacccaggc attcctttct atcgataatt actctttcaa ccaattgcca 60

atcagaaaat tgttatatct acctataatc tagaagcccc cacatcaagt tgttttgcct 120

ttctggacag gaccaatgta tatcttaaat gtatttgatt gatctctcat gtctccctaa 180

aatgtataaa accacgctgt tccccgacca cctggagcac atgttctcag ggtctcctga 240

gggctgtgtc acaggccatg ttcacttaca tt 272

<210> 586
<211> 189
<212> DNA
<213> Homo sapiens

<400> 586
ccctgcagag aatcacgtcc tggaactgca tgttcttgcg actcttggga cttcatttta 60

acttctcgct gccccagcca tgttttcaac catggcatcc ctcccccaat tagttccctg 120

tcatcctcgt caaccttctc tgtaagtgcc tggtaagctt gcccttgctt aagaactcaa 180

aacatagct 189

<210> 587
<211> 163
<212> DNA
<213> Homo sapiens

<400> 587
tgagcagact gcaccccaag ctcccgactc caggtcccct gatcttgggg cctgtttccc 60

atgggattca agagggacag ccccagcttt gtgtgtgttt aagcttagga atcgccttta 120

tggaaagggc tatgtgggag agtcagctat cttgtctggt ttt 163

<210> 588
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (75)..(75)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (262)..(262)
<223> n is a, c, g, or t

<400> 588
atgggtgtag atcaaggcag gagcaggaac caaaaagaaa ggcataaaca taagaaaaaa 60

aatggaaggg gtggnaaaca gagtacaata acatgagtaa tttgatgggg gctattatga 120

actgagaaat gaactttgaa aagtatcttg gggccaaatc atgtagactc ttgagtgatg 180

tgttaaggaa tgctatgagt gctgagaggg catcagaagt ccttgagagc ctccagagaa 240

aggctcttaa aaatgcagcg cnatctccag tgacagaaga tactgctaga aatctg 296

<210> 589
<211> 246
<212> DNA

<213> Homo sapiens

<400> 589

tgtacagatt caagcaatgg atgcaaggaa catgctgtat gtaatagaag aaagaagtcc 60

acgttttcgg cagaagtagt gagtcagtgt ggaagagagg tgagggtgtg ctttactttt 120

tgataaagag aaagatgttt actcataaac ccttcaaaag gtattaacaa atgtttacca 180

aacctattgc tttattttaa aaacataatt tgtgttttct atttgtaaga tctgacattt 240

cgaggc 246

<210> 590

<211> 121

<212> DNA

<213> Homo sapiens

<400> 590

ggcagcgacc cggaaacagc gtatcactga gaccgagtcg ccttatcagg agctccaggg 60

tcagaggtcg gatgtctaca gcgacctcaa cacacagagg ccgtattaca aatgagcccg 120

a 121

<210> 591

<211> 262

<212> DNA

<213> Homo sapiens

<400> 591

tggtgaccag ttctcggttt catagttttt actatcagtt tgcctttggg attctttgaa 60

agctcttgag gctttttccg cagcttctag gagatgtgtt aggtcattaa cagtaatgct 120

cctacagttt ttgttcccat ccaaccacca tttgatttca cttttgtaga cttgacctag 180

tgtatctgaa atataggaat ttttaggtgc tttcattttg gcctgacgtg cccagtccag 240

agctgtgtta aagtccttct ct 262

<210> 592
<211> 226
<212> DNA
<213> Homo sapiens

<400> 592
gtcattcaca actgatttca agagtcacct tcaccaggaa gtcttccttg accaccatca 60

ttcctgcctg attagagggc ttcctcatgg taatatgtgt tctcaagttt tcagtgtcaa 120

ggaatgccat cccagaagct cattttcaga tgcacaacag ccagaacagt ctcaagcagc 180

attctagagc ttggaattta agaactacgc attgcctata aagtga 226

<210> 593
<211> 272
<212> DNA
<213> Homo sapiens

<400> 593
agagctcttg agtgggctag tgactccccc tgcagcctgg tggagatggt gtgaggagcg 60

aagagccctc tgctctagga tttgggttga aaaacagaga gagaagtggg gagttgccac 120

aggagctaac acgctgggag gcagttgggg gcgggtgaac tttgtgtagc cgaggccgca 180

ccctccctca ttccaggctc attcattttc atgctccatt gccagactct tgctgggagc 240

ccgtccagaa tgtcctccca ataaaactcc at 272

<210> 594
<211> 151
<212> DNA
<213> Homo sapiens

<400> 594
tagggattaa cttcctgtat gctgcaactc atgaacttgg ccattctttg ggtatgggac 60

attcctctga tcctaatgca gtgatgtatc caacctatgg aaatggagat ccccaaaatt 120

ttaaactttc ccaggatgat attaaaggca t 151

<210> 595
<211> 243
<212> DNA
<213> Homo sapiens

<400> 595
tcccctgctt gaacactgaa gggcaggtgg tgggccatgg ccatggtccc cagctgagga 60

gcaggtgtcc ctgagaaccc aaacttccca gagagtatgt gagaaccaac caatgaaaac 120

agtcccatcg ctcttacccg gtaagtaaac agtcagaaaa ttagcatgaa agcagtttag 180

cattgggagg aagctcagat ctctagagct gtcttgtcgc cgcccaggat tgacctgtgt 240

gta 243

<210> 596
<211> 82
<212> DNA
<213> Homo sapiens

<400> 596
cagatgttgg tatctgcagg gatcctggaa ccaaacccct gcagatacta agggctgacg 60

atctaggtaa gactggattt aa 82

<210> 597
<211> 236
<212> DNA
<213> Homo sapiens

<400> 597
actctcaggc tgcgtccagc gacagtgccc agggctctga tgtgtctctc acagcttgaa 60

aagcctgaga cagctgtctt gtgagggact gagatgcagg atttcttcac gcctcccctt 120

tgtgacttca agagcctctg gcatctcttt ctgcaaaggc acctgaatgt gtctgcgtcc 180

ctgttagcat aatgtgagga ggtggagaga cagcccaccc ttgtgtccac tgtgac 236

<210> 598
<211> 119
<212> DNA
<213> Homo sapiens

<400> 598

gccagagaga ccaagtgtta tgtaagaagt agtgtcggct gtgtagaacc actgactaca 60

caggccgaag ttactgagaa cttggacaga aaaaatagcc agcaagtgtt caaactact 119

<210> 599

<211> 264

<212> DNA

<213> Homo sapiens

<400> 599

gccaacagca tcttttccgg gttcctgctc tttccagata tggaggcctg acctgtgggc 60

tgcttcacat ccaccccggc tccccctgcc agcaacgctc actctacccc caacaccacc 120

ccttgcccag ccaatgcaca cagtagggct tggtgaatgc tgctgagtga atgagtaaat 180

aaacttttca aggccaaggg acagtggttt aattcaactc tgtgtcccag cacctggcac 240

accagaagtg ccatgctcag aaat 264

<210> 600

<211> 273

<212> DNA

<213> Homo sapiens

<400> 600

ttcaaactca atgatgctac catgcctctc caacattttc aacccccctga cattatcttg 60

gatcctatgg tttctccatc caattctttg aatttcccag tctcccctat gtaaaactta 120

gcaacttggg ggacctcatt cctgggacta tgctgtaacc aaattattgt ccaaggctat 180

atttttggga tgaatataat ttgaggaagg gagttaaaga ccctcctggg gctctcagtg 240

tgccatagag gacagcaact ggtgattgtt tca 273

<210> 601
<211> 275
<212> DNA
<213> Homo sapiens

<400> 601
acttacatac tagcttccaa ggacaggtgg aggtagggcc agcctggcgg gagtggagaa 60

gcccagtctg tcctatgtaa gggacaaagc caggtttaat ggtactgggt agggggcact 120

gccaagacaa taagctaggc tactgggtcc agctactact ttggtgggat tcaggtgagt 180

ctccatgcac ttcacatgtt acccagtgtt cttgttactt ccaaggagaa ccaagaatgg 240

ctctgtcaca ctcgaagcca ggtttgatca ataaa 275

<210> 602
<211> 261
<212> DNA
<213> Homo sapiens

<400> 602
tcactcccac ctgttactgc tgggagtcaa gtcagctagg aaggaagcag gacatttttt 60

caaacagcaa gtggggccca tggaactgaa tctttactcc ttggtgcacc gcttttgtcg 120

tgcgttgcct tgctccgttt ttcccaaaaa gcactggctt catcaaggcc accgacgatt 180

tcctgagtgc actgggaaat ttgggtatag gtcaggcttg gcagccttga tcccaggaga 240

gtactaatgg taacaagtca a 261

<210> 603
<211> 241
<212> DNA
<213> Homo sapiens

<400> 603
ttgttcccga ctagctgcct tgcacattat tttcattttc ctggaatttg atacagagag 60

caatttatag ccaattgata gcttatgctg tttcaatgta aattcgtggt aaataactta 120

ggaactgcct tttctttttc tttgaaaacc tacttataac tgttgctaat aagaatgtgt 180

attgttcagg acaacttgtc tccatacagt tgggttgtaa ccctcatgct tggcccaaat 240

a 241

<210> 604
<211> 107
<212> DNA
<213> Homo sapiens

<400> 604
taaatataat atcgacacag tgctttccgt ggcactgcat acaatctgag gcctcctctc 60

tcagttttta tatagatggc gagaacctaa gtttcagttg attttac 107

<210> 605
<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (180)..(182)
<223> n is a, c, g, or t

<400> 605
gtggagcagt tggactgctc tctctgctct caggatgata ctgtgagaac aatttaaata 60

tgctaagcac atgtcaggaa acagttttgt ggtctttgga cactcgctgt agccattccg 120

ttccatttca ggtgatttta ttcatttcat ttgtagaata aaataaatcc atttcacacn 180

nncacacaca cacacacaca cacacacaca caccctctat acaccactaa agcctcccat 240

taaacccata ga 252

<210> 606
<211> 96
<212> DNA
<213> Homo sapiens

<400> 606
tcgacacagt gctttccgtg gcactgcata caatctgagg cctcctctct cagtttttat 60

atagatggcg agaacctaag tttcagttga ttttac 96

<210> 607

<211> 181

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (43)..(44)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (78)..(79)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (99)..(99)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (110)..(110)

<223> n is a, c, g, or t

<400> 607

gccagagaag cgattagaaa cccctgaggg ccgattactg acnncataaa tcatgagttt 60

gggggctttg cctgggtnnt gttggtacca ggagacatng ttataaccan caacgtcact 120

gctggttcca gtgcaggaga tggtgatcga ctgtccagga gacccagaca cggaggcagg 180

c 181

<210> 608
<211> 115
<212> DNA
<213> Homo sapiens

<400> 608
aggagctgag gtgctacccg gagccccatt cacccccacc tgcccacttg ggaatctgag 60

gcagaggagg gtgaggcctg tgtgccaacc ttgttcacat accaccttcg tcccc 115

<210> 609
<211> 53
<212> DNA
<213> Homo sapiens

<400> 609
aagcaagata tcaatgtagc agaattgcac ttgtgcctca cgaacataca taa 53

<210> 610
<211> 155
<212> DNA
<213> Homo sapiens

<400> 610
gttgttgatc atggatcata ctccccttgt ttctttgggt gagaagggat cgcagtttgg 60

aaactccggc ggctgcgtgc ggggtttcag tcccagctgt aggcttgtaa atacccgccc 120

cgccaaaccg catagagaac gtggcagcaa gctga 155

<210> 611
<211> 190
<212> DNA
<213> Homo sapiens

<400> 611
cacagggaaa tcagggttac aaatcttctt gatccacttc tctcaggatc ccctctcttc 60

ctacccttcc tcaccacttc cctcagtccc aactcctttt ccctatttcc ttctcctcct 120

gtctttaaag cctgcctctt ccaggaagac ccccctattg ctgctggggc tccccatttg 180

cttactttgc 190

<210> 612
<211> 63
<212> DNA
<213> Homo sapiens

<400> 612
attagaacct tagtataaat ttactttctc aaattcttgc catgagaggt tgatgagtta 60

att 63

<210> 613
<211> 281
<212> DNA
<213> Homo sapiens

<400> 613

ggagacagat ggagggtacc ctatttacaa ctgagtcagc caagccactg atgggaatat 60

acagatttag gtgctaaacc atttattttc cacggatgag tcacaatttg aagaatcaaa 120

cttccatcct gaaaatttat atgtttcaaa accacttgcc atcctgttag attgccagtt 180

cctgggacca ggcctcagac tgtgaagtat atatcctcca gcattcagtc caggggggagc 240

cacggaaacc atgtttttgc ttaagccatt aaagtcagag a 281

<210> 614
<211> 239
<212> DNA
<213> Homo sapiens

<400> 614
agatgcgctc gagacccacg ggccttccac ctccctcagc ttcctgcatg gacccacctt 60

actggccagt ctgcatcctt gcctagacca ttctcccctc cagggagccc accctgaccc 120

acccccactg cacccctcc ccatgggttc tctccttcct ctgaacttct ttaggagtca 180

ctgcttgtgt ggttcctggg acacttaacc aatgccttct ggtactgcca ttctttttt 239

<210> 615
<211> 196
<212> DNA
<213> Homo sapiens

<400> 615
gcctttaaga taccttgatg aagacctgga ctattgaatg gagcagaaat tcacctctct 60

cactgactat tacagttgca tttttatgga gttcttcttc tcctaggatt cctaagactg 120

ctgctgaatt tataaaaatt aagtttgtga atgtgactac ttagtggtgt atatgagact 180

ttcaagggaa ttaaat 196

<210> 616
<211> 38
<212> DNA
<213> Homo sapiens

<400> 616
agtctgccta tgatctttga atgagctttt taaggaag 38

<210> 617
<211> 110
<212> DNA
<213> Homo sapiens

<400> 617
tttaacttga gggtgtagag gtcctccacg cttgtttgcc tgaaagtaat ataatgatgc 60

tgtctgaaca ggttttactg cttgctttcc aagtaaaggt taattatgat 110

<210> 618
<211> 173
<212> DNA
<213> Homo sapiens

<400> 618
tattttccct ctttcgaaca aagacattgg tttgcccaag gactacaaat aaaccaacgg 60

gaaaaaagaa aggttccagt tttgtctgaa aattctgatt aagcctctgg gccctacagc 120

ctggagaacc tggagaatcc tacacccaca gaacccggct ttgtccccaa aga 173

<210> 619
<211> 82
<212> DNA
<213> Homo sapiens

<400> 619
gttatttaag atggctatcc agataatcct gaacactgtg tatttatttt atttagacta 60

ccagcaaaga ttaaagcatg aa 82

<210> 620
<211> 266
<212> DNA
<213> Homo sapiens

<400> 620
gcttggggaa caatgatggt gcacaaaggc ttagatttgc cttgtctcaa aataaggaat 60

tttgtagtgg ttttcaaaaa taattcaaca aagaaacaat acaaaaagtg ggtagaatta 120

cctatcacat ttcccaatct tgactattca gaatgctgtt tatttagtga tgaggattag 180

cacttgattg aagattcttt taaaatacta tcagttaaac atttaatatg attatgatta 240

atgtattcat tatgctacag aactga 266

<210> 621

<211> 115

<212> DNA

<213> Homo sapiens

<400> 621

cagaaagcca agtggactca acggagaggc cagcaagttt caggaaatgg tgcatttggt 60

gaacaaggag tcgtcagaaa ctccagacca gtttatgaca gctgatgaga caagg 115

<210> 622

<211> 262

<212> DNA

<213> Homo sapiens

<400> 622

gttcacccgg tgaactattt atgagttctt ttggtgtgaa gaaagggctc atgttgcatt 60

tccagccatt gctacaaaga acctttattt gttcagtaac ggtagaaaat ccttcccgat 120

taaaaacttc agacttgctg aatatcctgc aatgtcaaga tgaccgatgt tgagttgggt 180

ggatttgcta acgagtcaga tttgaacatg aggctattgg aacccaatag gcgtcattga 240

tggcggcaag ccatagcttt ca 262

<210> 623

<211> 94

<212> DNA

<213> Homo sapiens

<400> 623

ggggagccag gcttccctca cgcagcctgt ggtggatgtg ggaaggagat caacttctcc 60

tcactctggg acagacgatg tatggaaact aaaa 94

<210> 624
<211> 114
<212> DNA
<213> Homo sapiens

<400> 624
ctgcacagct cagcacaaca ttccaagctc aaaatagaag ccttctcagt gagctccagc 60

acgcccagag gactgttaat aacgatgatc catgtgtttt actctaaagt gcta 114

<210> 625
<211> 37
<212> DNA
<213> Homo sapiens

<400> 625
cagggactgg ctatcccaag acctggcaga tgtggct 37

<210> 626
<211> 74
<212> DNA
<213> Homo sapiens

<400> 626
gtgaaaggga agtagaaccg aaacaagatt agtcctgagt taacaatggc tgcaagctgg 60

atacatggaa ttca 74

<210> 627
<211> 201
<212> DNA
<213> Homo sapiens

<400> 627
tggtgaatgc gtgctgccca ggaccagtga agacagacat ggatgggaaa gacagcatca 60

ggactgtgga ggaggggct gagacccctg tctacttggc cctcttgcct ccagatgcca 120

ctgagccaca aggccagttg gtccatgaca aagttgtgca aaactggtaa acgtctgctt 180

cggagcttgc tgcttaataa a 201

<210> 628
<211> 217
<212> DNA
<213> Homo sapiens

<400> 628
atgctgtggt tggatcaagg actcattcct gccttggaga aaatacttca accagagcag 60

ggagcctggg ggtgtcgggg caggaggctg gggatggggg tgggatatga gggtggcatg 120

cagctgaggg cagggccagg gctggtgtcc ctaaggttgt acagactctt gtgaatattt 180

gtattttcca gatggaataa aaaggcccgt gtaatta 217

<210> 629
<211> 33

<212> DNA

<213> Homo sapiens

<400> 629

ttctgtgcct cagccgttct tgacatcaag aat 33

<210> 630

<211> 222

<212> DNA

<213> Homo sapiens

<400> 630

gacacagtcg ggttgaccca gggctgtctc cctccagagc ctccctccgg acaatgagtc 60

cccctcttg tctcccaccc tgagattggg catggggtgc ggtgtggggg gcatgtgctg 120

cctgttgtta tgggtttttt ttgcgggggg ggttgctttt ttctggggtc tttgagctcc 180

aaaaaataaa cacttccttt gagggagagc acaccttccc aa 222

<210> 631

<211> 278

<212> DNA

<213> Homo sapiens

<400> 631

tgagaggcaa gagttgttcc tgcccttccc tttgtgactt gaagaaccct gactttgttt 60

ctgcaaaggc acctgcatgt gtctgtgttc gtgtaggcat aatgtgagga ggtggggaga 120

gcaccccacc cccatgtcca ccatgaccct cttcccacgc tgacctgtgc tccctctcca 180

atcatctttc ctgttccaga gaggtggggc tgaggtgtct ccatctctgt ctcaacttca 240

tggtgcactg agctgtaact tcttccttcc ctattaaa 278

<210> 632
<211> 90
<212> DNA
<213> Homo sapiens

<400> 632
aaattaaagc taaagtatct gtattgcatt aaatataata tcgacacagt gctttccgtg 60

gcactgcata caatctgagg cctcctctct 90

<210> 633
<211> 198
<212> DNA
<213> Homo sapiens

<400> 633
accgcaggat cctttgctct gcacgagtta cctgttaaac tttggaacac ctaccaaaaa 60

ataagtttga taacatttaa aagatgggcg tttcccccaa tgaaatacac aagtaaacat 120

tccaacattg tctttaggag tgatttgcac cttgcaaaaa tggtcctgga gttggtagat 180

tgctgttgat cttttatc 198

<210> 634
<211> 243
<212> DNA

<213> Homo sapiens

<400> 634

ttcatgctgg acctcaggta caaaaggtta agaacttctc agttcattat atgatcatca 60

ttggtgcctc cgagctctct ctctctccct tgatttattt ggtccctttt atctccagtc 120

cttactccca tatctaacct cttaccccta cctcataggt aaacatttta atgaatttga 180

tgtttccttt tatttgcata gatcctctgt aatatgtagt agtgtccagt gtacatgtat 240

ttt 243

<210> 635

<211> 211

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (140)..(140)

<223> n is a, c, g, or t

<400> 635

ggtgagctac catactgctg acagtaatac actgcaaaat cttcaggctc cagtctgctg 60

atggtgagag tgaagtctgt cccagaccca ctgccactga acctgtctgg gatgccagtg 120

gccctgctgg atgcaccatn gatgaggagc ctgggagcct ggccaggttt ctgctggtac 180

caggctaagt agctgctgct aacactctga c 211

<210> 636
<211> 256
<212> DNA
<213> Homo sapiens

<400> 636
agagagtgga catttgtcgg gaaactccta acatatgccc ccattctgga gagaacacag 60

agtacgacac aatccctcac actaatagaa caatcctaaa ggaagatcca gcaaatacgg 120

tttactccac tgtggaaata ccgaaaaaga tggaaaatcc ccactcactg ctcacgatgc 180

cagacacacc aaggctattt gcctatgaga atgttatcta gacagcagtg cactgcccct 240

aagtctctgc tcaaaa 256

<210> 637
<211> 239
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (138)..(138)
<223> n is a, c, g, or t

<400> 637
gaagggtaaa tgaagctatc gtagcttcac ttgggaaaag ggagagaaca gatgaccagc 60

accaaggata gaagagggat ttcttacttt aaaaaaaatg gtccaaagaa taaacaaact 120

gaaaacagcc aaaagagnaa ggaagaattt gttagaatag ggcaagacta aaggacagag 180

taagggtgct ggccgccacc tgactcaagt tcaagtcgag ctgccactgt tgaaatttc 239

<210> 638
<211> 204
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (63)..(63)
<223> n is a, c, g, or t

<400> 638
attttatgac atttcgaagt ttctgtgtct taactctttt taattaattt tctgcacgtt 60

gcnttttttc tctttgtttt taattccata cagagtattc aattcttgaa acacattaaa 120

ataatttgct tgctagggta tggtttattt tataattaca ttcctagtct tgtgtggtta 180

ttgtaatgat gtctggtcct aatt 204

<210> 639
<211> 231
<212> DNA
<213> Homo sapiens

<400> 639
tgtctcccgg cctgatacca gatacaggtt gttgatttca tcgtgggtag caagctagta 60

ataaatttca aagtgctttc tcttttcatg ctttttgcca ataactgtta ccgccgttct 120

tattctctcc cttaactcat tgtctttggg ggagttagac accaggaggt gccttgtcgg 180

tcatattttt cagcacgtca tcaatcctat catcttcaat aacaacccgc t 231

<210> 640
<211> 237
<212> DNA
<213> Homo sapiens

<400> 640
gcatggcatc aaaaggtagg tcaacatatt aaataattcc atgtattgaa atatccagaa 60

aatatataga cagatctata gagatagaaa ctggtctgcc caggactagg ggttgtctaa 120

ggataaggag cttctttttt ggatggtgaa ataacctaaa atatattgtg ccattgtttg 180

cacaactttg tgaatatatt aaaaacctgt taattgtact cactaaatgt cctcctt 237

<210> 641
<211> 228
<212> DNA
<213> Homo sapiens

<400> 641
attgatagtg cttcttacca ggtgaaggga agggctactt tttcctaaag gagaaaaaag 60

ctttcagaca aagctcgtac caacccctga actgcaaatt tgctcaagtg accgtgcata 120

cttatattcc taatttaaat gattatttat gtcaaacgct cattgtgaaa cttgaaaatg 180

ttgtattaca ttacatcaaa taaagtttac ttgtagcaga cagaaaga 228

<210> 642

<211> 188

<212> DNA

<213> Homo sapiens

<400> 642

gaagcagcca acaaaaacgt aattagtaac taggacttcc tcatgggata gaccaaataa 60

ggcaactgta taactgtgta actgtataac tgtaaccaat gaaatattat ctttgctttt 120

atctatttgt cctaaaaagc ctcctcctca tgttctctct ggggagctcc ctagccactt 180

ctggcttg 188

<210> 643

<211> 259

<212> DNA

<213> Homo sapien

<400> 643

gactggacca aagagcatgt gaaaaaatgg gtaaatgaag accttaagat taatgagcaa 60

tacgggcaaa ttctgctcag tgaagaagta acaggattag tcctgcagga attaactgag 120

aaggaccttg tagaaatggg gctaccatgg ggtccagcac ttttgataaa acgttcatac 180

aacaaattga atagtaagtc ccctgaaagt gacaatcatg atccgggaca attagataat 240

tcaaaaccgt ccaaaacag 259

<210> 644
<211> 242
<212> DNA
<213> Homo sapiens

<400> 644
tgttctagag agctcatgta caccatggtg accatagtta ataatactgg attgtatgct 60

taaaatttgc taagagagta gatcttaagt catcaccaaa aaaagtaact gtaagatgat 120

ggagatgtgt taattagctt gacggtggta atcacaatat atgtgtatat caaaacatca 180

cattatacac cttaaatgta tataatattt gtcaattata cctcagtaaa gccaaaaaga 240

aa 242

<210> 645
<211> 205
<212> DNA
<213> Homo sapiens

<400> 645
ataggcagga accaatttgc atttaagtag tatgggaagc ctcgagtatg ttttcttgtc 60

cagagtgaag caaccaagaa agtaagatgc tggagatatc ttagactcaa gagatagaaa 120

gcaagaccct aggggagata agtaggagca ggatttcaag gacggaatta gtattgcaca 180

gagattaggg acacttcttc cttgg 205

<210> 646

<211> 217

<212> DNA

<213> Homo sapiens

<400> 646

aaaggcaaaa cactccagga cctctcccgg atctgtctcc tcctctagcc agcagtatgg 60

acagctggac ccctgaactt cctctcctct tacctgggca gagtgttgtc tctccccaaa 120

tttataaaaa ctaaaatgca ttccattcct ctgaaagcaa aacaaattca taattgagtg 180

atattaaata gagaggtttt cggaagcaga tctgtga 217

<210> 647

<211> 253

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (208)..(208)

<223> n is a, c, g, or t

<400> 647

aaagctgaac tgcaaatctc aacgaaggaa gaggccattt taaagaaact aaagtcaatt 60

gagcggacaa cagaagacat tataagatct gtgaaagtgg aaagagaaga aagagcagaa 120

gagtcaattg aggacatcta tgctaatatc cctgaccttc caaagtccta cataccttct 180

aggttaagga aggagataaa tgaagaanaa gaagatgatg aacaaaatag gaaagcttta 240

tatgccatgg aaa 253

<210> 648
<211> 249
<212> DNA
<213> Homo sapiens

<400> 648
aggaggtaga ccctttagct cccttccaat taaaggagtc cccaattctg gcacctgaga 60

gtcccctggg tctaacagct atgatattta tgtagtgtgt tgcttaccta aatgaataca 120

atttccttcc agacacgtga cactgatatt aaagtgctaa tgagagggat ctatttcttc 180

ttgtacgcta aaagagaaac agcagttcag atttcccatc agaagtccga ggactttgtt 240

cttgataac 249

<210> 649
<211> 185
<212> DNA
<213> Homo sapiens

<400> 649
ttgatattct cttttggttt tattgttgtg gttcattgaa aaaaaaagat aatttttttt 60

tctgatccgg ggagctgtat ccccagtaga aaaaacattt taatcactct aatataactc 120

tggatgaaac acacctttt ttttaataag aaaagagaat taactgcttc agaaatgact 180

aataa 185

<210> 650
<211> 234
<212> DNA
<213> Homo sapiens

<400> 650
atcaacctgg ttgacctgtc atggccgcct gtgccctgcc tccaccccca tcctacactc 60

ccccagggcg tgcggggctg tgcagactgg ggtgccaggc atctcctccc cacccggggt 120

gtccccacat gcagtactgt ataccccccа tccctccctc ggtccactga acttcagagc 180

agttcccatt cctgccccgc ccatcttttt gtgtctcgct gtgatagatc aata 234

<210> 651
<211> 270
<212> DNA
<213> Homo sapiens

<400> 651
ggattttgat ccaagctggt ccactcagtc catagcagag aatgaaaggg cccagagagg 60

gtggtgacct ctgcctgaag tcacacagtg agtcgaggac agggaggtga ccccaggttt 120

ctatgtgtag ggcgggagga tgttctggga cacagttcaa ttctcatttg tcacacactt 180

tggctattag agatcaaccc cttcgctcct gtgtcttgca atggcagcct tggcaaacgc 240

taaatgaaaa tcgtgacaac acttgtgtta 270

<210> 652

<211> 37

<212> DNA

<213> Homo sapiens

<400> 652

cccaaattat ccccaattat ccccacacat aaaaaaa 37

<210> 653

<211> 173

<212> DNA

<213> Homo sapiens

<400> 653

gttggtgttt catgacatgt ggacttcttt tgaaatagca agtcaaatgt agtgaccaaa 60

ttgtggaaga gatttctgtc aaataggaaa tgtgtaagtt cgtctaaaag ctgatggtta 120

tgtaagttgc tcagcactca gatgacagca gattctgggt tctgggagtg ttc 173

<210> 654

<211> 236

<212> DNA

<213> Homo sapiens

<400> 654

gaaaccatgg gcaggagtag gaattgagtg ataaacaatt gggctaatga agaaaacttc 60

tcttattgtt cagttcatcc agattataac ttcaatggga cactttagac cattagacaa 120

ttgacactgg gattaaacaa attcacataa tgccaaatac acaatgtatt tatagcaacg 180

tataatttgc aaagatggac tttaaaagga tgctgtgtaa ctaaactgaa ataatt 236

<210> 655
<211> 187
<212> DNA
<213> Homo sapiens

<400> 655
taatccacta aactggtctt cttcaagaga gctaagtata cactatctgg tgaaacttgg 60

attctttcct ataaaagtgg gaccaagcaa tgatgatctt ctgtggtgct taaggaaact 120

tactagagct ccactaacag tctcataagg aggcagccat cataaccatt gaatagcatg 180

caagggt 187

<210> 656
<211> 79
<212> DNA
<213> Homo sapiens

<400> 656
ctcagttctg gtccttcaag cctgtatggt ttggattttc agtaggggac agttgatgtg 60

gagtcaatct ctttggtac 79

<210> 657
<211> 94
<212> DNA
<213> Homo sapiens

<400> 657

taacaaatca tcaacttcca ctggtcaata tatagatttt gggtgtctga ggccccaaga 60

ttagatgcca ctaatctcca aagattccct ccaa 94

<210> 658
<211> 246
<212> DNA
<213> Homo sapiens

<400> 658
gaggcttggc cttctttgtg aggcagtgtg agcagaagct gatgccagca tgtcactggt 60

tttgaaggga tgagcccaga cttgatgttt tgggattgtc cttattttaa cctcaaggtc 120

tcgcatggtg gggcccctga ccaacctaca caagttccct cccacaagtg gacatcagtg 180

tcttctctgt gaggcatctg ggccattcgc actccctggt gtggtcagcc tctctcacac 240

aaggag 246

<210> 659
<211> 270
<212> DNA
<213> Homo sapiens

<400> 659
tttgtgccag gcctatagca gtgttgggag cgaaactcta gcaggatcct tcttacatgc 60

agaaaaggtt cattttacac ttgccaatag gaatgaaact atttcgctgc cacaatagct 120

aactgttttt ctaaatggcc tatttcgtca acaacaatca ggaaagtgta ggaaggtaca 180

atctctaatg attgtagccc gtgcttaagg tgaggaaaaa agtcaaaaaa ttacacatga 240

gaaacctgaa tccaggcaga tcttacccaa 270

<210> 660
<211> 195
<212> DNA
<213> Homo sapiens

<400> 660
aagagtatga tacaacatta gagaaagaaa gatacaaagg ctttattcat gtgtgatagt 60

aaaaatcagg atgagtctta gatatacaaa agataaatgg atatttaaaa tagttatata 120

tgctttttta gcaaaatatt cacgtgttaa gtatttctgg atcttaaaat acaaaatcca 180

cttattttat tagtt 195

<210> 661
<211> 147
<212> DNA
<213> Homo sapiens

<400> 661
gagaggccgc gctctcaggt gaaattaaaa ttggaggtca gttcccggat ccgattctct 60

cggttcattt tcttgagttt cattctgcga ttttgaaacc agattttgac ttgtctgtct 120

gtaaggttaa tggtcctgct tatctcc 147

<210> 662

<211> 106

<212> DNA

<213> Homo sapiens

<400> 662

gaaagatcca gtaagttcag tttctctatg aactaatcat tcaagtcaaa ggcacactga 60

tgcaaaatca gtatatggac cccggtgtct gattagcaag gttttc 106

<210> 663

<211> 268

<212> DNA

<213> Homo sapiens

<400> 663

gataggattg atgacgtgct gaaaaatatg accgacaagg cacctcctgg tgtctaactc 60

ccccaaagac aatgagttaa gggagagaat aagaacggcg gtaacagtta ttggcaaaaa 120

gcatgaaaag agaaagcact ttgaaattta ttactagctt gctacccacg atgaaatcaa 180

caacctgtat ctggtatcag gccgggagac agatgaggcg agaggaggag gaggaggagg 240

agaaggctct gggctcctct gcaaaaaa 268

<210> 664

<211> 160

<212> DNA

<213> Homo sapiens

<400> 664

accagcaaag caatgcactc ctgaccaagt agattctttt aaaaattaga gtgcattact 60

ttgaatcaaa aatttattta tatttcaaga ataaagtact aagattgtgc tcaatacaca 120

gaaaagtttc aaacctacta atccagcgac aatttgaatc 160

<210> 665
<211> 239
<212> DNA
<213> *Homo sapiens*

<400> 665
agtcccgaga ctgggttcaa gtagagggca gatctagatg ggggaggact aggactgact 60

cctatgggga tggaaaaggg actcctgggt gtctttgtga ctgtttagtg tgttctgtga 120

atgtgcgggc aggtattttt gcccacatct gtatatttgt ctattaatgt gatgtatttg 180

agtattgttg tgggggcggg tatgtctgta tataaatctg tgcagccact agtcaacaa 239

<210> 666
<211> 259
<212> DNA
<213> Homo sapiens

<400> 666
gaagaaagct ataccattac cataatacat ttttcatctc atggctacaa tggaattctt 60

gaaaaggaaa aaaaatccta tctacatata aaaacctgca tgaatgaatc actacatatg 120

cttataatga ggaagagtta tgggtcctga gtgtaatttt ttatcctttc ttaaaaagtt 180

tctgtattat gcattttgat aacactactg atgatccttc cacttatatt tgaaatgtta 240

tgtaccacat ttgcacaat 259

<210> 667
<211> 234
<212> DNA
<213> Homo sapiens

<400> 667
ggctactctg aaatgttgca gtgtggaaca atggaaagag cctgggtgtt tgggtcagat 60

aaatgaagat caaactccag ctccagcctc atttgcttga gactttgtgt gtatggggga 120

cttgtatgta tgggagtgag gagtttcagg gccattgcaa acatagctgt gcccttgaag 180

agaatagtaa tgatgggaat ttagaggttt atgactgaat tccctttgac atta 234

<210> 668
<211> 294
<212> DNA
<213> Homo sapiens

<400> 668
ctcgattatt ccctgtacaa tatttaaaat ttattgcttg atacttttga caacaaatta 60

ggttttgtac aattgaactt aaataaatgt cattaaaata aataaatgca atatgtatta 120

atattcattg tataaaaata gaagaataca aacatatttg ttaaatattt acatatgaaa 180

tttaatatag ctatttttat ggaatttttc attgatatga aaaatatgat attgcatatg 240

catagttccc atgttaaatc ccattcataa ctttcattaa agcatttact ttga 294

<210> 669
<211> 265
<212> DNA
<213> Homo sapiens

<400> 669
atatggctgt ggaaaaacga attaaaatgt tttgaggaga aagacttttt cacttctttg 60

ttgctttctt ttctattgag tctgggcttg tttgtgttac tgcatactgt gattagcata 120

ataattgttt ctttgaggtc atctaaatat ttttttcctа aaggaataaa gggtgaggaa 180

agaaaaatat taaaaaagct aatatttgat actgtgcttg ctgtcagtat gcattacatt 240

taaattattc tctattcaag tggga 265

<210> 670
<211> 190
<212> DNA
<213> Homo sapiens

<400> 670
ggaagatggt ttctatctca tgacccccac tccctgtgag agggaatggg ggaagcctga 60

tgaccctcag ctgttccaat ctagtatttt ttttcttttt taaaattact gtatttatta 120

tgacgatggt gactccccag tgcaaagggg ggccagattc tgtgtgtttc tctaacctct 180

ttgtaaataa 190

<210> 671

<211> 138

<212> DNA

<213> Homo sapiens

<400> 671

aagaattaca gggatgtttt taatcccact atggactcag tctcctggaa ataggtctgt 60

ccactcctgg tcattggtgg atgttaaacc catattcctt tcaactgctg cctgctaggg 120

aaaactgctc ctcattat 138

<210> 672

<211> 257

<212> DNA

<213> Homo sapiens

<400> 672

actctggctc cgaaaaactt tgttatatat atcaaggatg ttctggcttt acattttatt 60

tattagctgt aaatacatgt gtggatgtgt aaatggagct tgtacatatt ggaaaggtca 120

ttgtggctat ctgcatttat aaatgtgtgg tgctaactgt atgtgtcttt atcagtgatg 180

gtctcacaga gccaactcac tcttatgaaa tgggctttaa caaaacaaga aagaaacgta 240

cttaactgtg tgaagaa 257

<210> 673

<211> 231

<212> DNA

<213> Homo sapiens

<400> 673

accatgtaca gagaaatttt aggccaaact taaaatatgt aaggaggcag ctttaggcta 60

aacttgattt aacagcacca ataccccta cctttagtga gcacatctgc acattccaat 120

tttaatgaca gctccttaga atttcttatc aacgaagaca ctaacaaaga atggcgcatt 180

cctccttctc ctttctgagg atgccctacc ctgtaacaaa gtcgtttcta a 231

<210> 674

<211> 132

<212> DNA

<213> Homo sapiens

<400> 674

gtgagcctgc cagcgtttgc gacgtccccg cacgacaggc tcatactttc tgaggatcgt 60

gcatagcata ggacgtctga acctttgtac aaatgtgtag atgacatctt gctacagctt 120

ttatttgtga at 132

<210> 675

<211> 283

<212> DNA

<213> Homo sapiens

<400> 675

aattccagtg cttgtcctag taccttagca catggttgct gaatacatga atgaagagtg 60

agaaaccaga agctctgata tttaactgcc gtgataatga attcaatgtg caactatggg 120

caaattgtat ttaatagtaa ttgcatattg tacatatttt tcattcttat taacactgat 180

aaacttttca acttatactg actttaataa aattgtatta ctaggctatt aacatgatat 240

tttgtttccc attaaatgtg acatgcaaag acgtttatta aat 283

<210> 676
<211> 229
<212> DNA
<213> Homo sapiens

<400> 676
actgtacaaa gtataagtct tagatgtata tatttcctat attgttttca gtgtacatgg 60

aataacatgt aattaagtac tatgtatcaa tgagtaacag gaaaatttta aaaatacaga 120

tagatatatg ctctgcatgt tacataagat aaatgtgctg aatggttttc aaataaaaat 180

gaggtactct cctggaaata ttaagaaaga ctatctaaat gttgaaaga 229

<210> 677
<211> 39
<212> DNA
<213> Homo sapiens

<400> 677
gttgctgacc tgctgtgctc gcagtagatt ccaaaaaaa 39

<210> 678
<211> 259
<212> DNA

<213> Homo sapiens

<400> 678

gacatcccca ctcacgaata ttatgcccag tttctgcctc tgagggaaag cccagaaaag 60

gacagaaacg aagtagaaag gggcccagtc ctggcctggc ttctcctttg gaagtgaggc 120

attgcacggg gagacgtacg tatcagcggc cccttgactc tggggactcc gggtttgaga 180

tggacacact ggtgtggatt aacctgccag ggagacagag ctcacaataa aaatggctca 240

gatgccactt caaagaaaa 259

<210> 679

<211> 236

<212> DNA

<213> Homo sapiens

<400> 679

gacagtccgt caaaacagat tgtttgcaaa ggggaggcat cagtgtcctt ggcaggctga 60

tttctaggta ggaaatgtgg tagcctcact tttaatgaac aaatggcctt tattaaaaac 120

tgagtgactc tatatagctg atcagttttt tcacctggaa gcatttgttt ctactttgat 180

atgactgttt ttcggacagt ttatttgttg agagtgtgac caaaagttac atgttt 236

<210> 680

<211> 280

<212> DNA

<213> Homo sapiens

<400> 680

tctgaactct caaaagtcta ttttttaac tgaaaatgta aatttataaa tatattcagg 60

agttggaatg ttgtagttac ctactgagta ggcggcgatt tttgtatgtt atgaacatgc 120

agttcattat tttgtggttc tattttactt tgtacttgtg tttgcttaaa caaagtgact 180

gtttggctta taaacacatt gaatgcgctt tattgcccat gggatatgtg gtgtatatcc 240

ttccaaaaaa ttaaaacgaa aataaagtag ctgcgattgg 280

<210> 681

<211> 215

<212> DNA

<213> Homo sapiens

<400> 681

caaacttgga gcaggtgtcc atcccagccc tgtgtagtta gagcaggaat caagatctca 60

acacaaatgt ggctgccaag cactcagccc cggggcgagg ggtcaagttc ttctcagaga 120

aagaggaata agttggttct cagaagacat cacaagatac gtgtgtaccc aacaatctct 180

gatctctgct gatcttttgc ttagacgtta acttg 215

<210> 682

<211> 258

<212> DNA

<213> Homo sapiens

<400> 682

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ggcctcacat ttctctgtgt gatcccccac ttctgggctc tgccacccca cagtgggaaa 120

ggccacccta gaaagaagtc cgctggcacc cataggaagg ggcctcagga gcaggaaggg 180

ccaggaccag aaccttgccc acggcaactg ccttcctgcc tctccccttc ctcctctgct 240

cttgatctgt gtttcaat 258

<210> 683
<211> 248
<212> DNA
<213> Homo sapiens

<400> 683
gaaactccct agttccttca tgtaacttcc ctgaaaaatc taagtgtttc ataaatttga 60

gagtctgtga cccacttacc ttgcatctca caggtagaca gtatataact aacaaccaaa 120

gactacatat tgtcactgac acacacgtta taatcattta tcatatatat acatacatgc 180

atacactctc aaagcaaata atttttcact tcaaaacagt attgacttgt ataccttgta 240

atttgaaa 248

<210> 684
<211> 39
<212> DNA
<213> Homo sapiens

<400> 684
ggtaggttga agggacctct ctcttaccag taccagaaa 39

<210> 685
<211> 72
<212> DNA
<213> Homo sapiens

<400> 685
tctatttatt tattgaggac ccatggtaaa atgcaaatag atccggtgtc taaatgcatt 60

catattttta tg 72

<210> 686
<211> 241
<212> DNA
<213> Homo sapiens

<400> 686
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tttttaaaaa cactcttatc agcctgggca acacagtgag actccatctc ttaaaaaaaa 120

aattagctgg gtatagtggt atgtgcctgt agtcccaggt actcaggagg ctgaggcagg 180

aggattgcct gagcccagga ggtggaaact gcagagagtc atgatcatgt ccttacactc 240

c 241

<210> 687
<211> 278
<212> DNA
<213> Homo sapiens

<400> 687

gtaataaact ctctagggcc aaaacctggt atggtcattg ggaaatgagt gctcagggag 60

atggagctta ggggaggtgg gtgcttccct cctagatgtc agcatacact ctttcttctt 120

ttgtcccagg tctaaaacat ctttcctaga gaaaacaaaa gggactaaac tagaaatata 180

aagagcccta tacatgacag gtgatcacgt actgaatgat tttgaagtag tacaaacaat 240

aaaaattctc attccgcatc atcatgcggt ccatgatg 278

<210> 688

<211> 244

<212> DNA

<213> Homo sapiens

<400> 688

aaaagcttcc ccaactaaag cctagaagag cttctgaggc gctgctttgt caaaaggaag 60

tctctaggtt ctgagctctg gctttgcctt ggctttgcca gggctctgtg accaggaagg 120

aagtcagcat gcctctagag gcaaggaggg gaggaacact gcactcttaa gcttccgccg 180

tctcaacccc tcacaggagc ttactggcaa acatgaaaaa tcggcttacc attaaagttc 240

tcaa 244

<210> 689

<211> 118

<212> DNA

<213> Homo sapiens

<400> 689

ccagcactct gaaactgaga aatgttcaga atgtacggaa agatgatcag ctattttcaa 60

cataactgaa ggcatatgct ggcccataaa caccctgtag gttcttgata tttataat 118

<210> 690

<211> 264

<212> DNA

<213> Homo sapiens

<400> 690

aatacccatt atattcctgt aagtaaatga ctatttttcc cttaactcag tgattagaca 60

ggaaggaaga cattagtgat tagacaggag ggaagatatt agtgattaga cagcagggaa 120

gatattagtg gtaaagagtg aatgatagta gtgaatataa atggggctga ggaaacttta 180

agcataaaag attcctgaga tgactttaca agtctgtacg aatctgcctt gactgtatat 240

ttcatactgc ccaacaaaac aata 264

<210> 691

<211> 270

<212> DNA

<213> Homo sapiens

<400> 691

gttcctattc ttccattgta cgataatgtc tttaatatga aatgctacat tatttataat 60

tggtagagtt attgtatctt tttatagttg taagtacaca gaggtggtat atttaaactt 120

ctgtaatata ctgtatttag aaatggaaat atatatagtg ttaggtttca cttcttttaa 180

ggtttacccc tgtggtgtgg tttaaaaatc tataggcctg ggaattccga tcctagctgc 240

agatcgcatc ccacaatgcg agaatgataa 270

<210> 692
<211> 187
<212> DNA
<213> Homo sapiens

<400> 692
aattcatagt aatttcactc tctgcattga cttatgagat aattaatgat taaactatta 60

atgataaaaa taatgcattt gtattgttca taatatcatg tgcacttcaa gaaaatggaa 120

tgctactctt ttgtggttta cgtgtattat tttcaatatc ttaataccct aataaagagt 180

ccataaa 187

<210> 693
<211> 249
<212> DNA
<213> Homo sapiens

<400> 693
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caatgttaaa cagtgcagtc ctctttcgaa agctaagatg accatgcgcc ctttcctctg 120

tacatatacc cttaagaacg ccccctccac acactgcccc ccagtatatg ccgcattgta 180

ctgctgtgtt atatgctatg tacatgtcag aaaccattag cattgcatgc aggtttcata 240

ttctttcta 249

<210> 694
<211> 199
<212> DNA
<213> Homo sapiens

<400> 694
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gccctagact aactgtattg tcctagtcac agctccttgc tttgatttca tccttgataa 120

aatgaagatg aaacttacac tacttctcca agccttttgc tgtcttaaga ataagacctg 180

agattaacac taaccctag 199

<210> 695
<211> 190
<212> DNA
<213> Homo sapiens

<400> 695
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caaattaata ttggtgttca agactatatc taattcctct gatcactttg agaaacaaac 120

ttttattaaa tgtaaggcac ttttctatga attttaaata taaaaataaa tattgttctg 180

attattactg 190

<210> 696
<211> 235
<212> DNA
<213> Homo sapiens

<400> 696
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cttgatagtg aacgtgtacc ttgggaactg gctcacccac ctgctaatag caccatcgtc 120

actattaagc agacatttca gttggtagaa tccatgtaga agtcatggac ttttctggga 180

aatgactttt ctgggaaatg acagtttctt tgacatattt tctttgccca cttta 235

<210> 697
<211> 243
<212> DNA
<213> Homo sapiens

<400> 697
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gagtgtgagc agggcttgct cctgccaacc acaattcaat gaatccccga ccccctacc 120

ccatgctgta cttgtggttc tctttttgta ttttgcatct gaccccgggg ggctgggaca 180

gattggcaat gggccgtccc ctctcccctt ggttctgcac tgttgccaat aaaaagctct 240

taa 243

<210> 698

<211> 192

<212> DNA

<213> Homo sapiens

<400> 698

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agccgggatt gtccaattac taaaatgtaa ataatcacgt attgtgggga ggggagttcc 120

aagtgtgccc tcctctcttc tcctgcctgg attatttaaa aagccatgtg tggaaaccca 180

ctatttaata aa 192

<210> 699

<211> 114

<212> DNA

<213> Homo sapiens

<400> 699

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ttttttcttg ttttacagta ttcaattttg tgttgattca gctaaattat gaaa 114

<210> 700

<211> 123

<212> DNA

<213> Homo sapiens

<400> 700

tgtggggagc caggcttccc tcacgcagcc tgtggtggat gtgggaagga gatcaacttc 60

tcctcactct gggacagacg atgtatggaa actaaaaaga acatgcggca ccttaaaaaa 120

aaa 123

<210> 701
<211> 158
<212> DNA
<213> Homo sapiens

<400> 701
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tcagatttcc tcacctgtga aatgggctga ggcaggaaat gggaaaaagt gttagtgctt 120

ccaggcggca ctgacagcct cagtaacaat aaaaacaa 158

<210> 702
<211> 206
<212> DNA
<213> Homo sapiens

<400> 702
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atttttcact ttgagaacca acattaattc catatgaatc aagtgttttg taactgctat 120

tcatttattc agcaaatatt tattgatcat ctcttctcca taagatagtg tgataaacac 180

agtcatgaat aaagttattt tccaca 206

<210> 703
<211> 252

<212> DNA

<213> Homo sapiens

<400> 703

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tcattgacaa taaatgtaag aaattggaat aaaaaagaga gacctgctgt tattcgcttt 120

tgttctccag tgatttgatt aactcagggc aaggctgaat atcagagtgt atcgcactga 180

agaataataa tccattcagt aatgttatag ttatcctcaa tctaaatatg tcaactgtca 240

ttttgctgct tt 252

<210> 704

<211> 227

<212> DNA

<213> Homo sapiens

<400> 704

ctaaggtagc aacttatttc caaattaata tagatgaaaa atagatacca attagactaa 60

attgaaagct ttttgttcta tatttgcata gcctttgaaa tatttcttag tgcctaggag 120

gtctggggat tcctctttcg tggtggtcac taaccttact tgatgcagat aaaatcactt 180

gtcaatgcaa aatgtgttag aacttgataa agctttgagt ttgagaa 227

<210> 705

<211> 262

<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (77)..(117)
<223> n is a, c, g, or t

<400> 705
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ctgagctgtg acaaggnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaag 120

ggcaagtgct gttttcctgt tttcttcctt atcttagttg taatgaatca cttttataac 180

ttgtacctgc tacactaagt attgtctcag caaagtcatt cattttactg gtaacaaaag 240

ccaggaataa cgtgctatgg aa 262

<210> 706
<211> 275
<212> DNA
<213> Homo sapiens

<400> 706
gcctggatag aggtatatga tcgtgtgcca agaatttatc ccagactccc ctgtgtgaca 60

gcttcataat aaagttactt aactgtgcct cttcctcctt cctctcccca cacaggatgg 120

atgggcatct ttctccttga ccaccctact ctcccttcct cccctgatca cctcccctcc 180

ctgctcttcc ctggtgatgg acttctaaca tgagattttt ttaaaaaatt tctatttctt 240

ttataatttt gctgagtttt cagggtttct tctgt 275

<210> 707
<211> 81
<212> DNA
<213> Homo sapiens

<400> 707
agctatctga gccttgacgc tgagcaagtg gaagtcccac agaagctaca agttgccagg 60

tcaacgcatg aagggagcca c 81

<210> 708
<211> 147
<212> DNA
<213> Homo sapiens

<400> 708
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tgtttcataa tatcaagatt actaaaaatg ggggaaagga cttctaatct ttttttcata 120

atatctttga cacatattac agaagaa 147

<210> 709
<211> 47
<212> DNA
<213> Homo sapiens

<400> 709
acacagtgct ttccgtggca ctgcatacaa tctgaggcct cctctct 47

<210> 710
<211> 52
<212> DNA
<213> Homo sapiens

<400> 710
taaatatcca cagtactcac tttttccaaa tgatcctagt aattgcctag aa 52

<210> 711
<211> 222
<212> DNA
<213> Homo sapiens

<400> 711
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gacttttttca aaaaagtcaa ctaaagtgct aagtcataag aggagagcca ttatacccgt 120

tgtctttctg ggctccttga gtttatctgg attccaacag cacttggaaa gtaccgccct 180

ccactacctc aaatgcaaac acaatctctg ccagtagaca tt 222

<210> 712
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (33)..(33)

<223> n is a, c, g, or t

<400> 712

acaagcccaa atttgatata ctttttatat ttnaaaaatt atattcactg cccccataag 60

agcaatcaag gcatgtcttt aaattctata catagatata gccaaaaata gtgcatttag 120

taacattctt ttccaaaact atattcttgg gaatgaatat ctgtttcttc taacagtttg 180

agtgataatc tatacctgta gatataagtt attttgcata taaaattaat cttaatcttt 240

tatggaatgt tctctgtctg tggcattaaa tgaaccttaa gaac 284

<210> 713

<211> 224

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (144)..(144)

<223> n is a, c, g, or t

<400> 713

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ttttctctcc cacttttttca tattcctctt tttcattttt gcctttccgt ttctgtctat 120

gatgtaggct tctgaggaga accnagaagc ttggctttag tggtagaatg acagaactta 180

gggatccctt gcaggctaga acaaagttct gacccttaga ccaa 224

<210> 714
<211> 224
<212> DNA
<213> Homo sapiens

<400> 714
gaaattgcat caagcgtccg aacatgctgc ttacaacttt agaaacgcaa aatgcgttgt 60

tgtgggagtt gtgtaatttt tagtaggtgc tcaaatactt gctgaacttg gtgtctattt 120

ttaagtcttg cccattgatg taaactgtcc ctaggtcacg tgtatcttga ggtctaaaag 180

attatttatg caataaattg aaattcccat agccaattaa agat 224

<210> 715
<211> 194
<212> DNA
<213> Homo sapiens

<400> 715
tggtgggctg aggatgtctt cttcctgtcc aggatgcaat atggtcaagg atgaaaggaa 60

agagatgctg ggagcaagtc tgcattgaag atgtatttct gttgctttac taccaaccct 120

ggttataaat gatgaaacta taatgggtct gtaatagcta ctttcccata tagctcttgt 180

ctgtacatac ataa 194

<210> 716
<211> 227
<212> DNA

<213> Homo sapiens

<220>
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<222> (71)..(72)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (185)..(187)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (189)..(191)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (193)..(195)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (199)..(199)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (201)..(202)
<223> n is a, c, g, or t

<400> 716

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gcaccatgtg nnttttttt tttatctagt tcttgtatac tacagataat atttgaactt 120

tgtcatctca ctgtaaaact tttgttcatt tctcattatg gtaataaata gctattataa 180

ccaannnann nannnaaana nnttatttcc ctaagtgtta ttttgac 227

<210> 717
<211> 183
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (126)..(127)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (135)..(135)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (138)..(138)
<223> n is a, c, g, or t

<400> 717
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ttatctattt atagttatga gattaagact ggagtgccat caccgcgggt gatgatttag 120

ctttttnntgt gtgtntgngt gtgtgccttc caaatcatgc cataattgta atgttgaatc 180

gga 183

<210> 718
<211> 288
<212> DNA
<213> Homo sapiens

<400> 718
tgtgcccaac cattgtaata tgcgtattga cgtatatgat aggagaaaac actagcattt 60

tgagttaata agtaggtcag tttggattaa tggaaagttt gaagcttaga gtgtttaaat 120

aatgatttta ttcttttcaa tacacaagtg gaaatgtttc tccagtctaa attcccccta 180

gtattctcct gaaacaaaat ttttatatgc agatatttgc ttcttttgca agtttgagaa 240

tttcacagta acttctggtt accctgggtt gtgtcttgca gttaccaa 288

<210> 719
<211> 183
<212> DNA
<213> Homo sapiens

<400> 719
ttctgtgtct gaagtgtaag tgaacacaga agagtgacat gtttacaaac ctcaagccag 60

ccttgctcct ggctggggcc tgttgaagat gcttgtattt tacttttcca ttgtaattgc 120

tatcgccatc acagctgaac ttgttgagat ccccgtgtta ctgcctatca gcattttact 180

act 183

<210> 720
<211> 205
<212> DNA
<213> Homo sapiens

<400> 720
gctgcttcct cctggaaatt gacgaggggt gtcttgggca gagctggctc tgagcgcctc 60

catccaaggc caggttctcc gttagctcct gtggccccac cctgggccct gggctggaat 120

caggaatatt ttccaaagag tgatagtctt ttgcttttgg caaaactcta cttaatccaa 180

tgggtttttc cctgtacagt agatt 205

<210> 721
<211> 189
<212> DNA
<213> Homo sapiens

<400> 721
gcccacctga agcagcaagt gagcgggctg gagggtgtgc aggacgacct gttctggctg 60

accttcgagg ggaagcccct ggaggaccag ctcccgctgg gggagtacgg cctcaagccc 120

ctgagcaccg tgttcatgaa tctgcgcctg cggggaggcg gcacagagcc tggcgggcgg 180

agctaaggg 189

<210> 722

<211> 191

<212> DNA

<213> Homo sapiens

<400> 722

caaacagagt gaactttctg ccaagatgcg ggagtggttt tcagagacat ttcagaaagt 60

gaaggagaaa ctcaagattg actcatgagg acctgaaggg tgacatccca ggaggggcct 120

ctgaaatttc ccacacccca gcgcctgtgc tgaggactcc ctccatgtgg ccccaggtgc 180

caccaataaa a 191

<210> 723

<211> 217

<212> DNA

<213> Homo sapiens

<400> 723

aggttagatt ctcattcacg ggactagtta gctttaagca ccctagagga ctagggtaat 60

ctgacttctc acttcctaag ttcccttcta tatcctcaag gtagaaatgt ctatgttttc 120

tactccaatt cataaatcta ttcataagtc tttggtacaa gtttacatga taaaaagaaa 180

tgtgatttgt cttcccttct ttgcactttt gaaataa 217

<210> 724

<211> 233

<212> DNA

<213> Homo sapiens

<400> 724

ggagagtaga acatttttcc tcattttatc aaatcctctc ttgccctccc tcaattcccc 60

tgtaacattc ctgaagctgt tcccactccc agatggtttt atcaatagcc tagaggtaaa 120

gaactgtctt tttctctgat tctttaataa attatcttta tagaatatgc acaagttttt 180

ctacactcag tgttaaagta tttattaatg ggaagtcaac ttaatgtttt gaa 233

<210> 725

<211> 250

<212> DNA

<213> Homo sapiens

<400> 725

ttgcatttca tgtttaacct ccggctggaa atagaaagca ttcccttaga gatgaggata 60

aaagaaagtt tcagattcaa caggggaag aaaatggaga tttaatccta aaactgtgac 120

ttggggaggt cagtcattta cagttagtcc tgtgtctttc gacttctgtg attattaacc 180

ccactcacta ccctgtttca gatgcatttg gaataccaaa gattaaatcc ttgacataag 240

atctcatttg 250

<210> 726

<211> 183

<212> DNA

<213> Homo sapiens

<400> 726

ggagtggtgg cctctctgag atttcctaaa gttgctcaac agcccctgat caactaagtt 60

ttgtggtact tcaccctctt ctgccctcat ttcatgtgac agccattgtg agactgatgc 120

acaaactgtc acttggttaa tttaagcact tctgttttcg tgaatttact tgattgtttc 180

ttc 183

<210> 727
<211> 77
<212> DNA
<213> Homo sapiens

<400> 727
accaccacca gaatgcagtt ccagcttagg aagccacaaa caagccaccc aggaggaaca 60

aaacaccgcc agcgtgg 77

<210> 728
<211> 231
<212> DNA
<213> Homo sapiens

<400> 728
aataattcct ttctactgca tacaaaggga cctgaagctt aaattcagtt agttttggag 60

aaatccaaaa tgagaaaaac agaaagcatg tagcattcca tgaagcaaga acagcgtgca 120

tatgctattc ctggaaatac tgaagtgtcc gaatttcatg cctaaaaagt ctggaaatca 180

cactgaatca gttgctggtt tctgatgtct ctgggatgtg ctattacaaa c 231

<210> 729
<211> 77
<212> DNA
<213> Homo sapiens

<400> 729
attcagcaaa aactcagcca gctctttcta tggggcagtt gctaatttag ttctaggcaa 60

acgtggacac attaaat 77

<210> 730
<211> 269
<212> DNA
<213> Homo sapiens

<400> 730
ttccttcttg gcctaactct tccagttagg atctagaact ttgccttttt ttttttttt 60

tttttttga gatgggttct cactatattg tccaggctag agtgcagtgg ctattcacag 120

atgcgaacat agtacactgc agcctccaac tcctagcctc aagtgatcct cctgtctcaa 180

cctcccaagt aggattacaa gcatgcgccg acgatgccca gaatccagaa ctttgtctat 240

cactctcccc aacaacctag atgtgaaaa 269

<210> 731
<211> 229
<212> DNA
<213> Homo sapiens

<400> 731

aaatatgttt acagaccaaa gtgtgatttc acactgtttt taaatctagc attattcatt 60

ttgcttcaat caaaagtggt ttcaatattt tttttagttg gttagaatac tttcttcata 120

gtcacattct ctcaacctat aatttggaat attgttgtgg tcttttgttt tttctcttag 180

tatagcattt ttaaaaaaat ataaaagcta ccaatctttg tacaatttg 229

<210> 732

<211> 216

<212> DNA

<213> Homo sapiens

<400> 732

gtgatctggc aatgctatcc agcatctttg gagaccaatg gtcagtcttt tcctggccag 60

aggaaagatt gatggccctc ccacttgaac tgacagcctg tgagcccctt gggggcatag 120

actgccttcc ttggaccctt ccaaagtgtg tggtacgggg ctcagtgcac agagtattca 180

cccagcatca tgaatcaact tgggaggagt caacca 216

<210> 733

<211> 165

<212> DNA

<213> Homo sapiens

<400> 733

gggacatgaa gagcggcgca cgagtgggac tggcgcgcgc tcgccctcgc ggagcggacc 60

tgggaaggcg cgagaccgcg caggcgcagt accgcgggtg ccgcccaggt gatgcgcatg 120

cgcaccgggt agcagagcta gcgctactca gtaaaaatcc aatat 165

<210> 734
<211> 124
<212> DNA
<213> Homo sapiens

<400> 734
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gctacatccc cccaccccag ctggtctgct tggatttcct acagcccccg tgggcatgga 120

ccac 124

<210> 735
<211> 156
<212> DNA
<213> Homo sapiens

<400> 735
gttataattt acactgaggg tttcaaaatt cgactagaag tggagatata ttatttattt 60

atgcactgta ctgtattttt atattgctgt ttaaaacttt taagctgtgc ctcacttatt 120

aaagcacaaa atgttttacc tactccttat ttacga 156

<210> 736
<211> 276
<212> DNA
<213> Homo sapiens

<400> 736

gagtaagctc tagtccctct gtcctgtaga aagagccctg aagaatcagc aattttgttg 60

ctttattgtg gcatctgttc gaggtttgct tcctctttaa gtctgtttct tcattagcaa 120

tcatatcagt tttaatgcta ctactaacaa tgaacagtaa caataatatc cccctcaatt 180

aatagagtgc tttctatgtg caaggcactt ttcacgtgtc acctatttta acctttccaa 240

ccacataaat aaaaaaggcc attattagtt gaatct 276

<210> 737

<211> 257

<212> DNA

<213> Homo sapiens

<400> 737

gcctctggct tctcaggcct ctgctctccg acctctctcc tctgaaaccc tcctccacag 60

ctgcagccca tcctcccggc tccctcctag tctgtcctgc gtcctctgtc cccgggtttc 120

agagacaact tcccaaagca caaagcagtt tttcccccta ggggtgggag gaagcaaaag 180

actctgtacc tattttgtat gtgtataata atttgagatg tttttaatta ttttgattgc 240

tggaataaag catgtgg 257

<210> 738

<211> 283

<212> DNA

<213> Homo sapiens

<400> 738

cgcatgttat ggtgctaatg tactttcact tttaaactct agatcagaat tgttgacttg 60

cattcagaac ataaatgcac aaaatctgta catgtctccc atcagaaaga ttcattggca 120

tgccacaggg gattctcctc cttcatcctg taaaggtcaa caataaaaac caaattatgg 180

ggctgctttt gtcacactag catagagaat gtgttgaaat ttaactttgt aagcttgtat 240

gtggttgttg atctttttt tccttacaga cacccataat aaa 283

<210> 739

<211> 254

<212> DNA

<213> Homo sapiens

<400> 739

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atccagcata ttcataacta gagccatatc acagatgcat tcatcataat aattccagac 120

attttcatca ccctaaaagg aaaccctgaa acccattagc agtcattccc cattcctcca 180

acccattctc tccctaatcc ctagaaacca ccaatctgct gtgtatttca tctattgcca 240

acatttcata taaa 254

<210> 740

<211> 217

<212> DNA

<213> Homo sapiens

<400> 740

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acaccaaatt gtctcttcaa atacgtatgg actggataac tctgagaaac acatctagta 120

taactgaata agcagagcat caaattaaac agacagaaac cgaaagctct atataaatgc 180

tcagagttct ttatgtattt cttattggca ttcaaca 217

<210> 741

<211> 171

<212> DNA

<213> Homo sapiens

<400> 741

atcgctggtc accatggtga tcaaggtgct cctggctccg tgggtcctgc tggtcctagg 60

ggccctgctg gtccttctgg ccctgctgga aaagatggtc gcactggaca tcctggtaca 120

gttggacctg ctggcattcg aggccctcag ggtcaccaag gccctgctgg c 171

<210> 742

<211> 289

<212> DNA

<213> Homo sapiens

<400> 742

aaaccctcag gaaactccca gggtgatgct tggagaagct gtgagttgag ctgaagctgg 60

agaacttcct ccagagcaaa gggcttaaga aagaaagaag aactctaagc tgggtctgct 120

aacatcactc cagtttagat ggatcttggc agagagacat gcttgttcct ctggattgga 180

aagatgattt actctcggga atcttctctg tcagcctgta catctaaagg catgaagcac 240

tcaattgggc aattaacatt agtgtttgtt ctctgatggt atctctgag 289

<210> 743
<211> 271
<212> DNA
<213> Homo sapiens

<400> 743
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tatttatttt atttagacta ccagcaaaga ttaaagcatg aaatgtaaaa catctgataa 120

aacttacagc cccctacacc aagagtgtat ctgtgaaaga gctcctacac tttgaaaact 180

taagaatccc ttatcatgaa gtttgcctgt tctagaattg taagattgtt aatttccttc 240

aatctctagt gacaacactt aatttctttt c 271

<210> 744
<211> 193
<212> DNA
<213> Homo sapiens

<400> 744
cacctggctt catgttcccg gtattagtac aatgccaaaa tatttaaaat tcttaaaggt 60

taactcaaat atcttaagtt ttacttcact tacaatttca ataatgctga aattttgatt 120

gaatattgtg tttgtagtgc tacctctttt tcgttcataa gaacaaaagc ctatcattct 180

cttagtttct aaa 193

<210> 745
<211> 206
<212> DNA
<213> Homo sapiens

<400> 745

cctgtaactc tttaaaactt ggctataggc tgtttagcac agtacagatt aaagatacag 60

ttacgtaaac agcaaagtaa ttttatagtg cttcatccat ttatcatgct ttggtttgct 120

aatttttca catacctttt tctatcacag tctgttgctt ttgtacacat ttctcatatt 180

ggggttcgac aggtaaacac aaactg 206

<210> 746
<211> 242
<212> DNA
<213> Homo sapiens

<400> 746

gtgctataat ccctatttag ttcaaaatta accagaattc ttccatgtga aatggaccaa 60

actcatatta ttgttatgta aatacagagt tttaatgcag tatgacatcc cacaggggaa 120

aagaatgtct gtagtgggtg actgttatca aatattttat agaatacaat gaacggtgaa 180

cagactggta acttgtttga gttcccatga cagatttgag acttgtcaat agcaaatcat 240

tt 242

<210> 747
<211> 266
<212> DNA
<213> Homo sapiens

<400> 747
ttatcaactg tgcacaagga aaaaaataga tatgtgaaag gttcacgtaa atttcctcac 60

atcacagaag attaaaattc agaaaggaga aaacacagac caaagagaag tatctaagac 120

caaagggatg tgttttatta atgtctagga tgaagaaatg catagaacat tgtagtactt 180

gtaaataact agaaataaca tgatttagtc ataattgtga aaaataataa taatttttct 240

tggatttatg ttctgtatct gtgaaa 266

<210> 748
<211> 202
<212> DNA
<213> Homo sapiens

<400> 748
gtggaggata ttgcaactgg agttcagaca ctgtactcga agtggaagga ctttcatttt 60

gagaagatac catttgatcc agcagaaatg tccaaatgat atcaggtcct caatcttcag 120

ctacagggaa tgagtaactt tgagtggaga agaaacaaac atagtgggta taatcatgga 180

tcgcttgtac ccctgtgaaa at 202

<210> 749
<211> 208
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (124)..(124)
<223> n is a, c, g, or t

<400> 749
gaatatgtgg cagagctcct ggaaatgatg cagattaggt ggcatttttg tcagctctgt 60

ggtttattgt tgggactatt ctttaaaata tccattgttc actacagtga agatctctga 120

tttnaccgtg tactatccac atgcattaca aacatttcgc agagctgctt agtatataag 180

cgtacaatgt atgtaataac catctcat 208

<210> 750
<211> 150
<212> DNA
<213> Homo sapiens

<400> 750
gctgataaat agcattaggg ttctttgcaa tgtggtatct agctgtatta ttggttttat 60

ttactttaaa cattttgaaa agcttatact ggcagcctag aaaaacaaac aattaatgta 120

tctttatgtc cctggcacat gaataaactt 150

<210> 751
<211> 97
<212> DNA
<213> Homo sapiens

<400> 751
caaattcaag tcactagact tcagagttca acacctggac atgagaagat attatattat 60

gtaccataaa tatttcctgt atctgactgc ctgaaca 97

<210> 752
<211> 237
<212> DNA
<213> Homo sapiens

<400> 752
agcaagactt gctgcctaaa ggagcccacc attttacttt tcacatttaa tctgccacgt 60

tgaatcaatt ggaataaaac ctgactcgca ggtgactgga caggaaatcc caaagttcca 120

ccatttctat gcttaatttt aacgtccccc cgctttttt tttgtagaaa ataaaaacaa 180

gaaaatcgtt ccaatgtaag atgtttgtta tagaaacttt aggcaataca ggtgtgt 237

<210> 753
<211> 292
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<222> (54)..(55)

<223> n is a, c, g, or t

<400> 753

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tttttgtgtg aatatttaat ggtgctccat gactgttgag ttttaaaaac ctcgttaaat 120

tttgccaaat cagttgcccc caaaagggaa tatgcttttc cttatttttt tttctaaaat 180

gctatttatc tctaaggaaa aaaaaaaaag actattactc atttaacatt gtttaagcag 240

gttgagctag ctgtgaaaat agcttttgtg agccttctaa ttcctaaacg tc 292

<210> 754

<211> 243

<212> DNA

<213> Homo sapiens

<400> 754

gttaacactg tggatcacct tcggccaagg gacacgactg gagattaaac gtaagtaatt 60

tttcactatt gtcttctgaa atttgggtct gatggccagt attgactttt agaggcttaa 120

ataggagttt ggtaaagatt ggtaaatgag ggcatttaag atttgccatg ggttgcaaaa 180

gttaaactca gcttcaaaaa tggatttgga gaaaaaaaga ttaaattgct ctaaactgaa 240

tga 243

<210> 755

<211> 120

<212> DNA

<213> Homo sapiens

<400> 755

tcattctcat ccatccagga tgtactaaaa cagtgtgttt aataaattgt aattattttg 60

tgtacagttc tatactgtta tctgtgtcca tttccaaaac ttgcacgtgt ccctgaattc 120

<210> 756

<211> 185

<212> DNA

<213> Homo sapiens

<400> 756

aaggtttggc agaaattgtt ttttgagtgg ctcaccagag tacccagaag aatcagtatg 60

gaattagagg acagtggcct accctaaata aagacatgag tgatgtataa agtctagtgt 120

caatttattc agaaaatatc aaaattattc tgggagctat gggtcaaagt tgataggcac 180

aaaca 185

<210> 757

<211> 130

<212> DNA

<213> Homo sapiens

<400> 757

atcccaatag atatcccccc atgtgcatgc acacctgcac actcacggct gaaatctccc 60

taacccaggg ggaccttagc atgcctaagt gactaaacca ataaaaatgt tctggtctgg 120

cctgaaaaaa 130

<210> 758
<211> 86
<212> DNA
<213> Homo sapiens

<400> 758
aagcagacta cgagaaacac aaagtctacg cctgcgaagt cacccatcag ggcctgagct 60

cgcccgtcac aaagagcttc aacagg 86

<210> 759
<211> 264
<212> DNA
<213> Homo sapiens

<400> 759
ggtacacaaa tctggttctc aatggtgagg tgggatcaga gatattctcc ctgttgttca 60

gaggaacaat aattcggatg tttctctcca caatgtcctc attaggatct tcggaagaac 120

ggatgatcct ggaagtaatc cgggcacact tacatttgtt gtcaacaaga acaatccttt 180

catcttcttg ggctttcaca tgaacagcct taataaaaac cgccaggact ccccagaaaa 240

gcaaatggtt cttcatcttg accc 264

<210> 760
<211> 101

<212> DNA

<213> Homo sapiens

<400> 760

ttgataggga tagcattgaa ctatttgctc aactcaacat tttaggaatt tatttctgct 60

gtctagtgct caaaacttgc agctagaatt gagggaagag a 101

<210> 761

<211> 233

<212> DNA

<213> Homo sapiens

<400> 761

tgcttatccg ttagccgtgg tgatttagca ggaagctgtg agagcagttt ggtttctagc 60

atgaagacag agccccaccc tcagatgcac atgagctggc gggattgaaa gatgctgtct 120

tcgtactggg aaagggattt tcagccctca gaatcgctcc accttgcagc tctccccttc 180

tctgtattcc tagaaactga cacatgctga acatcacagc ttatttcctc att 233

<210> 762

<211> 256

<212> DNA

<213> Homo sapiens

<400> 762

ctgaggtgct atgttcttag tggatgttct gaccctgctt caaatatttc cctcaccttt 60

cccatcttcc aagggtataa ggaatctttc tgctttgggg tttatcagaa ttctcagaat 120

ctcaaataac taaaaggtat gcaatcaaat ctgcttttta aagaatgctc tttacttcat 180

ggacttccac tgccatcctc ccaaggggcc caaattcttt cagtggctac ctacatacaa 240

ttccaaacac atacag 256

<210> 763
<211> 259
<212> DNA
<213> Homo sapiens

<400> 763
acagaagcca ttgcctccct tgtttacctt gggtccacct ccaccaaaac ccaacagacc 60

accaaatgtt gacctgacga aattccacaa aacctcttct ggaaacagta ctagcaaagg 120

ccagacgtct tactcaacaa cttccctgcc accacctcca ccatcccatc cggccagcca 180

accaccattg ccagcatctc acccatcaca accaccagtc ccaagcctac ctcccagaaa 240

cattaaacct ccgtttgac 259

<210> 764
<211> 114
<212> DNA
<213> Homo sapiens

<400> 764
ggacctgtac accacgagca gccagctgac cctgccggcc acacagtgcc tagccggcaa 60

gtccgtgaca tgccacgtga agcactacac gaatcccagc caggatgtga ctgt 114

<210> 765
<211> 265
<212> DNA
<213> Homo sapiens

<400> 765
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attattaaaa acaccaccaa agaaaataaa tatatcctac ttgaaattta ctctatggac 120

ttacccactg ctagaataaa tgtatcaaat cttatttgta aattctcaat tttgatatat 180

atatgtatat atgcatatac atatccacac ttgtctgcaa gaatattgat taaaattgct 240

aaatttgtac ttgttcacca gaaaa 265

<210> 766
<211> 198
<212> DNA
<213> Homo sapiens

<400> 766
gcacagctca gcacaacatt ccaagctcaa aatagaagcc ttctcagtga gctccagcac 60

gcccagagga ctgttaataa cgatgatcca tgtgttttac tctaaagtgc taaatatggg 120

agtttccttt ttttactctt tgtcactgat gacacaacag aaaagaaact gtagaccttg 180

ggacaatcaa catttaaa 198

<210> 767

<211> 162

<212> DNA

<213> Homo sapiens

<400> 767

atgttcatac tctaagtatc aaaatcttcc aattatcatg ctcacctgaa agaggtatgc 60

tctcttagga atacagtttc tagcattaaa caaataaaca aggggagaaa ataaaactca 120

aggagtgaaa atcaggaggt gtaataaaat gttcctcgca tt 162

<210> 768

<211> 256

<212> DNA

<213> Homo sapiens

<400> 768

tcctgtttac ccttcaagtt tcaagttcat gtcactgtct cagagaggtt ttcctgtgct 60

cgccctgttt ctctcaggaa gccttgctct tttccatcat gcctctaatc acagcttata 120

atcggatatt tatttctgtg tctacagtct tgccctgcca gactgtatgc cccatgtggg 180

caggcgctca tgattgtttc tgattgtttc acgcatgctg ctaacccaga gcctgggccc 240

aaagctagtt agtact 256

<210> 769

<211> 294

<212> DNA

<213> Homo sapiens

<400> 769

caaagggtga gagggcttcc ttctcaccct tctctccata agtatcttga agatccatgg 60

tttgttttgc tctattgttt agtttttact tgggtgcaat gtgtacgtca aaagttttta 120

ttttgatatt tgaaagagac caaatcaggc ccagaccgcc tctctggaag gtgttgtagg 180

ccattcaaaa cgcctccgga gtgtcgcaaa ccaagtgcgg aggggccctg aggttgtact 240

gtaaacatca tagtgacttg tcttttcaaa tatattccca ctattttcgc agaa 294

<210> 770

<211> 221

<212> DNA

<213> Homo sapiens

<400> 770

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ggcagcaggg gaacatcttc tcatgctccg tgatgcatga ggctctgcac aaccgcttca 120

cgcagaagag cctctccctg tctccgggta aatgagtgcg acggccggca agccccccgct 180

ccccgggctc tcggggtcgc gcgaggatgc ttggcacgta c 221

<210> 771

<211> 239

<212> DNA

<213> Homo sapiens

<400> 771

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ctctgacttt gctgtttcca gtggtatgac cttggagaag tcacttatcc tcttggagcc 120

tcagtttcct catctgcaga ataatgactg acttgtctaa ttcgtaggga tgtgaggttc 180

tgctgaggaa atgggtatga atgtgccttg aacacaaagc tctgtcaata agtgataca 239

<210> 772
<211> 181
<212> DNA
<213> Homo sapiens

<400> 772
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gataaatcaa gtgattggtg tgcctgggtc tcactacaag cagcctatct gcttaagaga 120

ctctggagtt tcttatgtgc cctggtggac acttgcccac catcctgtga gtaaaagtga 180

a 181

<210> 773
<211> 228
<212> DNA
<213> Homo sapiens

<400> 773
gggatgacat gcactcagct cttggctcca ctgggatggg aggagaggac aagggaaatg 60

tcaggggcgg ggagggtgac agtggccgcc caaggcccac gagcttgttc tttgttcttt 120

gtcacaggga ctgaaaacct ctcctcatgt tctgctttcg attcgttaag agagcaacat 180

tttacccaca cacagataaa gttttccctt gaggaaacaa cagcttta 228

<210> 774
<211> 136
<212> DNA
<213> Homo sapiens

<400> 774
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acgtctgcta acttggagcc ccagtgccaa gcacagtgcc tgcatgtatt tatccaataa 120

atgtgaaatt ctgtcc 136

<210> 775
<211> 193
<212> DNA
<213> Homo sapiens

<400> 775
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aaaaaaatcc cccagcactt cccacagtgc ctattgatac ttggggaggg tgcttggcac 120

ttattgaata tatgatcggc catcaaggga agaactattg tgctcagaga cactgttgat 180

aaaaactcag gca 193

<210> 776
<211> 175

<212> DNA

<213> Homo sapiens

<400> 776

aaatttaatt ttctacgcct ctggggatat ctgctcagcc aatggaaaat ctgggttcaa 60

ccagcccctg ccatttctta agactttctg ctgcactcac aggatcctga gctgcactta 120

cctgtgagag tcttcaaact tttaaacctt gccagtcagg acttttgcta ttgca 175

<210> 777

<211> 183

<212> DNA

<213> Homo sapiens

<400> 777

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gtttccaaaa aatggtactc cacatacttc agtgagggta agtattttcc tgttgtcaag 120

aatagcattg taaaagcatt ttgtaataat aaagaatagc tttaatgata tgcttgtaac 180

taa 183

<210> 778

<211> 235

<212> DNA

<213> Homo sapiens

<400> 778

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gcccatcaaa tcctgagtgt cagtttgttg tccctattgt agatgaaata gtgatgtagc 120

aaaaacctag taaattctga atgcttttcc acgtagactt atctggaatg tgaacacaac 180

tctttggtta atagtaaatg cttaactgta gtcctgagta ggtgcatttc tgtct 235

<210> 779
<211> 154
<212> DNA
<213> Homo sapiens

<400> 779
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accttcatca ctattcttag gataatgctg gcgggcagag atgatcaatc atcatattaa 120

atcataatga gcttataatc ctcccactgg aaaa 154

<210> 780
<211> 280
<212> DNA
<213> Homo sapiens

<400> 780
atcagaaagg gcaacttact cttcctggca tcttattgta ttggagggtg accaccctgg 60

gcatggggtg ttggcagggg tcaaaaagct tatttctttt aatctcttac tcaacgaaca 120

catcttctga tgatttccca aaattaatga gaatgagatg agtagagtaa gatttgggtg 180

ggatgggtag gatgaagtat attgcccaac tctatgtttc tttgattcta acacaattaa 240

ttaagtgaca tgatttttac taatgtatta ctgagactag 280

<210> 781
<211> 206
<212> DNA
<213> Homo sapiens

<400> 781
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ataaaattat tgtatagaca tctgcttctt aaacagattg tgagttcttt gagaaacagc 120

gtggatttta cttatctgtg tattcacaga gcttagcaca gtgcctggta atgagcaagc 180

atacttgcca ttacttttcc ttccca 206

<210> 782
<211> 247
<212> DNA
<213> Homo sapiens

<400> 782
gctgaaattg tatctctcag taattttaga tgtcttttaa aaaattgaaa aacaaagtgt 60

tagactgtgt gcgtgtgcgt tgatgggcac tcaagagtcc cgtgagtcat ccagccctgc 120

ctttcccctg cgcccccatc ctctcacgtc ccgccctgcc tccacttggg gaccctgcct 180

cgtgtcgtct ttatctgcct attactcagc ctaaggaaac aagtacactc cacacatgca 240

taaagga 247

<210> 783
<211> 190
<212> DNA
<213> Homo sapiens

<400> 783
gtggagaacc acagctgcag agtaggcagc tgcctccagg atgagttact tgaaatttgc 60

cttgagtgtg ttacctcctt tccaagctcc tcgtgataat gcagacttcc tggagtacaa 120

acacaggatt tgtaattcct tactgtaacg gagtttagag ccagggctga tgctttggtg 180

tggccagcac 190

<210> 784
<211> 165
<212> DNA
<213> Homo sapiens

<400> 784
cccattgaaa agaccgagcc ttgtatgtat gttatggata cataaaatgc acgcaagcca 60

ttatctctcc atgggaagct aagttataaa aataggtgct tggtgtacaa aacttttat 120

atcaaaaggc tttgccattt ctatatgagt gggtttactg gtaaa 165

<210> 785
<211> 260
<212> DNA
<213> Homo sapiens

<400> 785

gaacagagag aaagtgctcc gtaaaagtga gctgcgatgc ggaggtgggc aagctcttcc 60

ctggaggggg aagagctctc aacccagagg gatctgacca ggaaggttca ccccccctcc 120

acccaggaag cccctgcaga cagtatgtgt tttaggcttt gctggccaaa tggtctctgc 180

cgtgactact cagctctgcc attgtggctg cagagtgacc atagaccttc tgaaagtgaa 240

tgagtatgac tgtgttccaa 260

<210> 786

<211> 197

<212> DNA

<213> Homo sapiens

<400> 786

aaatggtaaa catgagggtg ctcttgtgac ttaatttttg ttcaagggac taaattgctt 60

atgtttattc cctgtcagcg gagtggagaa tgtcattcat caataaacca aagccaatag 120

ctggagaatt gagatctggt tgaaagtggt ttatggttta catgctgtac tatcctgagg 180

aattgcgaga tattgct 197

<210> 787

<211> 187

<212> DNA

<213> Homo sapiens

<400> 787

aaaacatctg gttcaattac gctgaactct gactacatgt gggccagtaa taatatgaat 60

tggacttaag aataaacctt gtgtttaatc tctttttttc cttaaaattt taatgtgagt 120

tttctgttac gcaaattatc catgttagca catttggaac aaatgtataa atgtactttc 180

tgaataa 187

<210> 788
<211> 228
<212> DNA
<213> Homo sapiens

<400> 788
gggatgacat gcactcagct cttggctcca ctgggatggg aggagaggac aagggaaatg 60

tcaggggcgg ggagggtgac agtggccgcc caaggcccac gagcttgttc tttgttcttt 120

gtcacaggga ctgaaaacct ctcctcatgt tctgctttcg attcgttaag agagcaacat 180

tttacccaca cacagataaa gttttccctt gaggaaacaa cagcttta 228

<210> 789
<211> 213
<212> DNA
<213> Homo sapiens

<400> 789
actctccgga ttgaccaagt tcatcctggg ctccattggg tctgccattg cggctgtcat 60

tgcgaggttc tactagctcc ctgcccctcg ccctgcagag aagagaacca tgccagggga 120

gaaggcaccc agccatcctg acccagcgag gagccaacta tcccaaatat acctggggtg 180

aaatatacca aattctgcat ctccagagga aaa 213

<210> 790
<211> 104
<212> DNA
<213> Homo sapiens

<400> 790
gttggtgtgc tgaggtgtta gagagggacc atgtgtcact tgtgctttgc tcttgtccca 60

cgtgtcttcc actttgcata tgagccgtga actgtgcata gtgc 104

<210> 791
<211> 132
<212> DNA
<213> Homo sapiens

<400> 791
acattgattc cccatcgctg aaggacagaa ttcattgtgt ggcatttgta tttgatgcca 60

gctctattca atacttctcc tctcagatga tagtaaagat caaaagaatt cgaagggagt 120

tggtaaacgc tg 132

<210> 792
<211> 281
<212> DNA
<213> Homo sapiens

<400> 792

gttattaaca gtcctctggg cgtgctggag ctcactgaga aggcttctat tttgagcttg 60

gaatgttgtg ctgagctgtg cagcctgttc ctgcatctgt tgttcctgca ttttctgttg 120

ctctgccagc caattttgtt tggctatctc catttaactc acttgttcct gatggagtct 180

ctccctctcc tgcatcattt gctcgttctg cctttgaatc gccgccaacc tttgcgcttc 240

agccttttca gcttctgctt tcacttgtgc ctctgaggag a 281

<210> 793
<211> 239
<212> DNA
<213> Homo sapiens

<400> 793
gggagggtaa cctcactctt ctccaggcca ggcctccttg gactcccctg ggggtgtccc 60

actcttcttc cctctaaact gccccacctc ctaacctaat ccccccgccc cgctgccttt 120

cccaggctcc cctcacccca gcgggtaatg agcccttaat cgctgcctct aggggagctg 180

attgtagcag cctcgttagt gtcacccccc cctccctgat ctgtcagggc cacttagtg 239

<210> 794
<211> 174
<212> DNA
<213> Homo sapiens

<400> 794
ggtcctgtag ccctaagtgg tactaacttt ccttcattca acccacctgc gtctcatact 60

cacctcaccc cactgtggct gatttggaat tttgtgcccc catgtaagca ccccttcatt 120

tggcattccc cacttgagaa ttacccttt gccccgaaca tgtttttctt ctcc 174

<210> 795
<211> 270
<212> DNA
<213> Homo sapiens

<400> 795
aaataaccac tttttgttgg gcaatatgaa atttttaaag gagtagaata ccaaatgata 60

gaaacagact gcctgaattg agaattttga tttcttaaag tgtgtttctt tctaaattgc 120

tgttccttaa tttgattaat ttaattcatg tattatgatt aaatctgagg cagatgagct 180

tacaagtatt gaaataatta ctaattaatc acaaatgtga agttatgcat gatgtaaaaa 240

atacaaacat tctaattaaa ggctttgcaa 270

<210> 796
<211> 276
<212> DNA
<213> Homo sapiens

<400> 796
gagtaagctc tagtccctct gtcctgtaga aagagccctg aagaatcagc aattttgttg 60

ctttattgtg gcatctgttc gaggtttgct tcctctttaa gtctgtttct tcattagcaa 120

tcatatcagt tttaatgcta ctactaacaa tgaacagtaa caataatatc cccctcaatt 180

aatagagtgc tttctatgtg caaggcactt ttcacgtgtc acctatttta acctttccaa 240

ccacataaat aaaaaaggcc attattagtt gaatct 276

<210> 797
<211> 264
<212> DNA
<213> Homo sapiens

<400> 797
taacttttc tcaaagtcac tgatgtttgt tcctgttaaa tgtatagcat tgtaatgaga 60

gcccatcaaa tcctgagtgt cagtttgttg tccctattgt agatgaaata gtgatgtagc 120

aaaaacctag taaattctga atgcttttcc acgtagactt atctggaatg tgaacacaac 180

tctttggtta atagtaaatg cttaactgta gtcctgagta ggtgcatttc tgtctgtctc 240

aataaatttt actttgtctg caaa 264

<210> 798
<211> 275
<212> DNA
<213> Homo sapiens

<400> 798
tattccatct acttttctat cgccgtcccc ttttgcagcc ctctctgggg atggactggg 60

taaatgttga cagaggccct gccccgttca cagatcctgg ccctgagcca gccctgtgct 120

cctccctccc ccaacactcc ctaccaaccc cctaatcccc tactccctcc acccccccctc 180

cactgtaggc cactggatgg tcatttgcat ctccgtaaat gtgctctgct cctcagctga 240

gagagaaaaa aataaactgt atttggctgc aagaa 275

<210> 799
<211> 210
<212> DNA
<213> Homo sapiens

<400> 799
agaggctctt ctgcgtgtag tggttgtgca gagcctcatg catcacggag catgagaaga 60

cgttcccctg ctgccacctg ctcttgtcca cggtgagctt gctatagagg aagaaggagc 120

cgtcggagtc cagcacggga ggcgtggtct tgtagttgtt ctccggctgc ccattgctct 180

cccactccac ggcgatgtcg ctgggataga 210

<210> 800
<211> 235
<212> DNA
<213> Homo sapiens

<400> 800
gagtgtctca gaagtgtgct cctctggcct cagttctcct cttttggaac aacataaaac 60

aaatttaatt ttctacgcct ctggggatat ctgctcagcc aatggaaaat ctgggttcaa 120

ccagcccctg ccatttctta agactttctg ctccactcac aggatcctga gctgcactta 180

cctgtgagag tcttcaaact tttaaacctt gccagtcagg acttttgcta ttgca 235

<210> 801
<211> 162
<212> DNA
<213> Homo sapiens

<400> 801
ggacataaca gacttggaag cagatgatac agacttcttt ttttcataat caggttagtg 60

taagaaattg ccatttgaaa caatccattt tgtaactgaa ccttatgaaa tatatgtatt 120

tcatggtacg tattctctag cacagtctga gcaattaaat ag 162

<210> 802
<211> 249
<212> DNA
<213> Homo sapiens

<400> 802
aggccctctt gagagtctat ccagggaccc attgttttac tttaacagac cagaaaagat 60

gtttgttttc catgtcatta cccccagggg ataccgaatg tgtgggtaga aatttctctg 120

tagattaaaa atcagatttt tacatggatt caacaaagga gcgtcacttg gatttttgtt 180

ttcatccatg aatgtagctg cttctgtgta aaatgccatt ttgctattaa aaatcaattc 240

acgctggaa 249

<210> 803
<211> 200
<212> DNA

<213> Homo sapiens

<400> 803

aagtgtttgc tgaggacatt gctcctctga ctcccatctc actttgtcca tcgcagcctt 60

ttgttgggag atgacactgt cagtcagccc atgatgtctg ttcacacgag atgctttttt 120

aatagaattg accaatgttt tgctgccact gattaaagta ttatttatac taattgttgc 180

ttgtagtttt gatgtaattc 200

<210> 804

<211> 150

<212> DNA

<213> Homo sapiens

<400> 804

ctagttactg tggtatggct aatacctgtc aacatttgga ggcaatccta ccttgctttt 60

gcttctagag cttagcatat ctgattgttg tcaggccata ttatcaatgt ttacttttt 120

ggtactataa aagctttctg ccacccctaa 150

<210> 805

<211> 142

<212> DNA

<213> Homo sapiens

<400> 805

tgtggcatgc ttttctgagc cttcctactt taaagcatgg aacatgcagg tgatttggga 60

agtgtagaaa gacctgagaa aacgagcctg tttcagagga acatcgtcac aacgaatact 120

tctggaagct taacaaaact aa 142

<210> 806
<211> 224
<212> DNA
<213> Homo sapiens

<400> 806
tgtagcagct tgtgttgtca cgcttcttct tttgagcaac tttcttacac tgaagaaagg 60

cagaatgagt gcttcagaat gtgatttcct actaacctgt tccttggata ggctttttag 120

tatagtattt ttttttgtc attttctcca tcagcaacca gggagactgc acctgatgga 180

aaagatatat gactgcttca tgacattcct aaactatctt tttt 224

<210> 807
<211> 176
<212> DNA
<213> Homo sapiens

<400> 807
ggctgagcaa ggcacatagt ctactcagtc tattcctaag tcctaactcc tccttgtggt 60

gttggatttg taaggcactt tatccctttt gtctcatgtt tcatcgtaaa tggcataggc 120

agagatgata cctaattctg catttgattg tcacttttg tacctgcatt aattta 176

<210> 808
<211> 250

<212> DNA

<213> *Homo sapiens*

<220>

<221> misc_feature

<222> (221)..(221)

<223> n is a, c, g, or t

<400> 808

tagaacagga tggagggcaa gacctgtgta agaagaagtc ttaaactgta aacatgggtg 60

tagtgagggt agtgtggcta agaggaaatg gatccagatg ggcttgatgg ggagcagatg 120

ggcaggcacg atggcagggg tgcatcggct cactggggct gcatctgagg taaatggaaa 180

taaaggaggt gaggaaatga ggaagagaag gaagtggcgg nactggctgt ggagttttgt 240

gggagccttc 250

<210> 809

<211> 178

<212> DNA

<213> Homo sapiens

<400> 809

taccagaata ggagttttcc tctgtggacc tgaagccttg gctgaaaccc tgagtaaaca 60

aagcatctcc aactctgagt ctggccctcg gggagtgcat ttcattttca acaaggaaaa 120

cttctaactt gtctcttcca tgaggaaata aatgtgggtt gtgctgccaa atgctcaa 178

<210> 810

<211> 229

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (48)..(48)

<223> n is a, c, g, or t

<400> 810

gtagttagaa aaagcctcct aggtgatttt gatgaatccc agtctcanat ttcttcattt 60

ggaaatgata atgtaggcca cacgtattac tggagaaaaa tgtgctcccg agactttcca 120

gagcagcaga gctgggacta ggcaggtgag gcagctacgt gcaagtgtag ccctgagaat 180

gagcacctct ttaaagaatg taccttgcgt tagttctgtg cctgtttaa 229

<210> 811

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (204)..(204)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (230)..(230)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (234)..(234)

<223> n is a, c, g, or t

<400> 811

gaaagttggc tcgtaatatg atttaatatt caaagtagag tcatctacct attagcttgc 60

tggcgtggtc ctagtttatg cctgtttcag catgattgtt gagtaccctg tttcatcctt 120

agcattttct tgattttgtt gttaaatgat gtataccctt atttccattg aatctgtgct 180

tccacccccc caactgaagt tgtnttccct ttgcttggcc acccttacan cctnttggat 240

ggtgtatcct acagtgtaag cactaaactg aagaggca 278

<210> 812

<211> 243

<212> DNA

<213> Homo sapiens

<400> 812

atcatagctc actgagattg ccaggttcga caaagaggaa tttataggat ggggatatag 60

ggtagacttg actctgcttt atccgggaaa gcttttaaaa ctctgagcca gttaactttg 120

agtaagcata aaacatactg tattggtgtt tgtatttttc atgccacaat attaaaatgg 180

aattttaaat gtagattatt ataatctata aaagataagt atgcatgtat taggatactg 240

gaa 243

<210> 813
<211> 151
<212> DNA
<213> Homo sapiens

<400> 813
aaatttgtaa atgggattga gtccctaaaa cctggaaaaa ctgacatggg ctagctattt 60

attcactcat cgagttactt attccttcgt aaaaaaaaaa aaaaaaaaat catttgagat 120

gataaaaatg gtagggtata gtttaagatg a 151

<210> 814
<211> 84
<212> DNA
<213> Homo sapiens

<400> 814
cgcccgggca ggtactggat gtcaggtctg cgaaacttct tagattttga cctcagtcca 60

taaaccacac tatcacctcg gccg 84

<210> 815
<211> 252
<212> DNA
<213> Homo sapiens

<400> 815
tgagcttccc ttggacacta actcttccca gatgatgaca atgaaattag tgcctgtttt 60

cttgcaaatt tagcacttgg aacatttaaa gaaaggtcta tgctgtcata tggggtttat 120

tgggaactat cctcctggcc ccaccctgcc ccttcttttt ggttttgaca tcattcattt 180

ccacctggga atttctggtg ccatgccaga aagaatgagg aacctgtatt cctcttcttc 240

gtgataatat aa 252

<210> 816
<211> 272
<212> DNA
<213> Homo sapiens

<400> 816
aatgttgtgt gtggtgattg ttcaggtcga atctgttgta tccagtacag ctttaggtct 60

tcagctgccc ttctggcgag tacatgcaca ggattgtaaa tgagaaatgc agtcatattt 120

ccagtctgcc tctatgatga tgttaaatta ttgctgttta gctgtgaaca agggatgtac 180

cactggagga atagagtatc cttttgtaca cattttgaaa tgcttcttct gtagtgatag 240

aacaaataaa tgcaacgaat actctgtcaa aa 272

<210> 817
<211> 185
<212> DNA
<213> Homo sapiens

<400> 817
gccacaagct gtccagtcta atcgacagga ttccgattcc tgaacagtgt cattcgaatc 60

agaatgtcag agctgagtct gctgttctga cttaaggaac aacttgactc agtctcttga 120

tggctggaga atgcacatcc tagctgtcac tggggctaca ggcaggtcag tgagcacgct 180

aaaat 185

<210> 818
<211> 256
<212> DNA
<213> Homo sapiens

<400> 818
gcagcaagat ggtgttgcag acccaggtct tcatttctct gttgctctgg atctctggtg 60

cctacgggga catcgtgatg acccagtctc cagactccct ggctgtgtct ctgggcgaga 120

gggccaccat caagtgcaag tccagccaga gtattttata taggtccaac aacaagaact 180

acttagcttg gtaccagcag aaagcaggac agcctcctaa attgttcatt tactgggcat 240

ctacccggga atccgg 256

<210> 819
<211> 146
<212> DNA
<213> Homo sapiens

<400> 819
aggtcggggc actctgagtc ccagttccca gtgcagctgt aggtcgtcat cacctaacca 60

cacgtgcaat aaagtcctcg tgcctgctgc tcacagcccc cgagagcccc tcctcctgga 120

gaataaaacc tttggcagct gccctt 146

<210> 820
<211> 122
<212> DNA
<213> Homo sapiens

<400> 820
ccagacgtca accaggaaca tgtaacttgg agagggacga agaaagggtc tgataaacac 60

agaggtttta aacagtccct accattggcc tgcatcatga caaagttaca aattcaagga 120

ga 122

<210> 821
<211> 225
<212> DNA
<213> Homo sapiens

<400> 821
gaagagtctg ttgccgagct ggactggaaa gccccaaaat cccaggattt cttcttcttt 60

tcttcttcca gctccttctc tctgaccttc tgcaatgcac ccctgtatac ctggtcctgg 120

cagtagacaa tctgttccat ctggaagtgg aggcggatca gcttctcacc ttctctctct 180

tgttctgctc taatgtcttc aattttggac ttggcggttc tgtgg 225

<210> 822
<211> 274

<212> DNA

<213> Homo sapiens

<400> 822

ggattatacc cgtcttagtc tcgatcattg ctttcacttg tgccactgag ctggaccttc 60

gcacctggag gaggtgcctc tttgcctcat cacctgactc cacaagaaac aagggcagct 120

cctcatcact gggcttcacc actttcaggg taaggtggat ggtcttctct ttgtcaatgc 180

cataagatga gaggcttctc cgtggcttta agatcttgga gcccagcaaa agaacctggt 240

cctgcacagg aaccttggta gtagaccgga ccca 274

<210> 823

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (201)..(201)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (206)..(206)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (221)..(221)

<223> n is a, c, g, or t

<400> 823

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ttttacaatt taataatgca tactttaaaa ttcatgataa atcatggaac cccactatac 120

tcactaattc aactattgat ttctttttga gcaactgact ttatgattta tccttaaaag 180

taaggaagta taccagaagg ncaaanggat aaatccaccc ntaaatacta gagtctaagt 240

tattttcctg aaaagg 256

<210> 824

<211> 143

<212> DNA

<213> Homo sapiens

<400> 824

gttgtcccca cagtagacac atatgatggc cgaggtgata gtgtggttta tggactgagg 60

tcaaaatcta agaagtttcg cagacctgac atccagtacc ctgatgctac agacgaggac 120

atcacctcac acatggaaag cga 143

<210> 825

<211> 199

<212> DNA

<213> Homo sapiens

<400> 825

gcacagctca gcacaacatt ccaagctcaa aatagaagcc ttctcagtga gctccagcac 60

gcccagagga ctgttaataa cgatgatcca tgtgttttac tctaaagtgc taaatatggg 120

agtttccttt tttttactct ttgtcactga tgacacaaca gaaaagaaac tgtagacctt 180

gggacaatca acatttaaa 199

<210> 826
<211> 224
<212> DNA
<213> Homo sapiens

<400> 826
ccttgacccc agtacgaagt ctatgccctg aatccccaga gtagcccttc ctggtgccca 60

actggcctgg ggacaaacag cgtccactac atctaggact gccggctaag tggacacact 120

tcttgacctc ctaccaggaa ctttggtaaa agctagcttt ggggaagggg ttgggtgtaa 180

atatgagagg gtggagggag accagctggt agcaataaac atgg 224

<210> 827
<211> 263
<212> DNA
<213> Homo sapiens

<400> 827
gagatcactt ggtaactggt ttcatgtgta tccaaaaatc agcatttgga tttaagcttt 60

ctgaatttgg tagtttaaga aacagattta gtttttcaat ggttttaact catgtgaaat 120

aatgattttc caccagctct gatgcaaaga gatataattt taatgaacga tttatccagc 180

agtgtgttcc aggggttgcc tctccttatc tacggggatt actttgtaca tgcagataag 240

ttttcgcaaa cctatttcca ttt 263

<210> 828
<211> 252
<212> DNA
<213> Homo sapiens

<400> 828
cactgtgtat gactgaaatt tctggaataa ctgtaaatgg ttatgttaat ggaataaaac 60

acaaatgttg aaaaatgtaa aatatatata catagattca aatccttata tatgtatgct 120

tgttttgtgt acaggatttt gtttttttctt tttaagtaca ggttcctagt gttttactat 180

aactgtcact atgtatgtaa ctgacatata taaatagtca tttataaatg accgtattat 240

aacatttgaa aa 252

<210> 829
<211> 226
<212> DNA
<213> Homo sapiens

<400> 829
agatccactg aacatctgtg tctttatttt gctgcttgta tttattgtag tcaaatgctt 60

tacatcagaa tgatgaaaat aggcttgcca ctttctctta ttttaattcc atggtagtca 120

atgaactggc tgccacttta atataactga aaattcattt tgagaccaag caggatcaag 180

tttgtagaat aaacactggt ttcctagcca tcctctgaaa acagta 226

<210> 830
<211> 100
<212> DNA
<213> Homo sapiens

<400> 830
tagaattacc tatcacattt cccaatcttg actattcaga atgctgttta tttagtgatg 60

aggattagca cttgattgaa gattctttta aaatactatc 100

<210> 831
<211> 239
<212> DNA
<213> Homo sapiens

<400> 831
ttctttgagg gctcgcatcc aaaagaatat aacactccaa gcatgaaaga gtggcagcaa 60

atttcatcac tgtatacttt caatccgaag ggccagtact acagcatgtt gcacaaatat 120

gtcaacagaa aagagaagac tcacagtatc aggtctactg aaggagatac ggtgattcct 180

gttcttggct ttgtagattc atctggtata aacagcactc ctgagttatg acctttga 239

<210> 832
<211> 292
<212> DNA
<213> Homo sapiens

<400> 832

catcttagtg cctttatctg tctttatgtc ttggggttgg ggtaggtaga taccaaatga 60

aacactttca ggaccttcct tcctcttgca gttgttcttt aatctccttt actagaggag 120

ataaatattt tgcatataat gaagaaattt ttctagtata taacgcaggc cttttatttt 180

ctaaaatgat gatagtataa aaatgttagg ataacagaat gattttagat tttccagaga 240

atattataaa gtgctttagg tatgaaaata aatcatcttt gtctgattaa aa 292

<210> 833

<211> 207

<212> DNA

<213> Homo sapiens

<400> 833

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gggagcttct ctaaagagga aagtgagtgg attaacccct gcttctcttc ttgttccctg 180

ttatcattcc tccccaacat aataata 207

<210> 834

<211> 183

<212> DNA

<213> Homo sapiens

<400> 834

aaaatctgat tttgcagcga tcacttttaa accctgtagt gatgtaagac taaaatataa 60

ttgctaagat tttgttggtt aatgtaaaga tatgactttt ctgcactgta ctctcttcat 120

aggattgtaa aggtgttcta atccaattgc atgatgtagt aagcctctta aatatgtgtg 180

tta 183

<210> 835
<211> 151
<212> DNA
<213> Homo sapiens

<400> 835
gtcttttgcg aaagggattg caggttcaga aggcatctta ccatggctgg ggaattgtct 60

ggtggtgggg ggcaggggac agaggccatg aaggagcaag ttttgtattt gtgacctcag 120

ctttgggaat aaaggatctt ttgaaggcca a 151

<210> 836
<211> 233
<212> DNA
<213> Homo sapiens

<400> 836
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actgggtcag gcactagcat ggaggagggt cacagagtgg ggcacgtgag gacccatgga 120

accgtcctgg tgcccaggcc ctcacaagta ccaaagccag caccaaagga gtcagggaag 180

gggttggctg agtcaaggga ccccagaggg caccaggaat aaaatcttct tga 233

<210> 837
<211> 211
<212> DNA
<213> Homo sapiens

<400> 837
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agagttctag taggctgcta tggaatttct ggcatgaaaa ttcttgaccc ctcacacttt 120

acccccctgta cagcacaggc ataccatgga gatattacag gatcagttcc agaccaccat 180

aataaagtgg atatcgcaat aaagtgagtc a 211

<210> 838
<211> 270
<212> DNA
<213> Homo sapiens

<400> 838
ctttaaaggt gggtttttgc tgtgataaat gaatacggta ctctgaagga gaaaaaagtt 60

tctcaaatga gcttaaactg caagtgattt aaaaattaga gaatataatt cttaaagcta 120

ttgaaagttt caaccagaaa acctcaagtg aattttgtat gtaaatgaaa tcttgaatgt 180

aagttctgtg attctttaag caaacaatta gctgaaaact tggtattgtt gtagtttatg 240

tagtaagtga cttggcaccc atcagaaaat 270

<210> 839
<211> 253
<212> DNA
<213> Homo sapiens

<400> 839
gctttgtaaa gtgcatgtgg aattaatggg acagtgtgcc ctttgtgtta gatgttagag 60

caaaagaaag ggcttatagt gttagtattg gagcactttg aagatagata ttttcagaaa 120

agatgtagga tttaaaagtt aaattttaaa ttttagaaaa agatatgatg gcaattggaa 180

atagtcacaa tgaagttctt catccagtag gtgtttaaca gtgttatttt gccactggta 240

atgtgtaaac tgt 253

<210> 840
<211> 194
<212> DNA
<213> Homo sapiens

<400> 840
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tccagggcca gatgagcaga agctctcgat ggacaatgaa cggccttgct gggggccgcc 120

ctgtaccctc tttcaccttt ccctaaagac cctaaatctg aggaatcaac agggcagcag 180

atctgtatat tttt 194

<210> 841

<211> 217

<212> DNA

<213> Homo sapiens

<400> 841

aaactggtgg tggaatgcgt catgaaaggc gtcacttcca cgagagttta tgagagagca 60

taagccaagg gacgttgacc tggactgaag ttcgcattga actctacaac attctgtggg 120

atatattgtt caaaaagata ttgttgtttt ccctgattta gcaagcaagt aattttctcc 180

caagctgatt ttattcaata tggttacgtt ggttaaa 217

<210> 842

<211> 180

<212> DNA

<213> Homo sapiens

<400> 842

tcctgacttc taataacatt gatgtcaaga aaatgacggt cacagaccag gtgaactgcc 60

ccaagctctc gtaaccaggt tctacaggga ggctgcaccc actccatgtt acttctgctt 120

cgctttcccc taccccaccc ccccccccata aagacaaacc aatcaaccac gacaaaggaa 180

<210> 843

<211> 262

<212> DNA

<213> Homo sapiens

<400> 843

gtattttcct tacatgtaca gtagacgttc tctattctat cagccttcta tggtaccttt 60

ttgtcaggac aattaggatt gtaatgctaa tgcaaaggca gcaattcaaa gatcttctag 120

tgcctcatga ataaagttga gatttaaaat ttgtaacatt gatggaacag ctgggaggtt 180

agaccaatca ttaaggaatg tatgccatag ctttctttgc taccataaac attttggagg 240

tgcatctgct atgtgacatg gt 262

<210> 844
<211> 274
<212> DNA
<213> Homo sapiens

<400> 844
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tctcagcctt agccctgtgc cccctgaaac agctgccacc atcactcgca agagaatccc 120

ctccatcttt gggaggggtt gatgccagac atcaccaggt tgtagaagtt gacaggcagt 180

gccatggggg caacagccaa aatagggggg taatgatgta ggggccaagc agtgcccagc 240

tgggggtcaa taaagttacc cttgtacttg caaa 274

<210> 845
<211> 289
<212> DNA
<213> Homo sapiens

<400> 845
ttcatgtggc tgtagatccc aagatgactg gggtgggagg tcttgctaga atgggaaggg 60

tcatagaaag ggccttgaca tcagttcctt tgtgtgtact cactgaagcc tgcgttggtc 120

cagagcggag gctgtgtgcc tgggggagtt ttcctctata catctctccc caaccctagg 180

ttccctgttc ttcctccagc tgcaccagag caacctctca ctccccatgc cacgttccac 240

agttgccacc acctctgtgg cattgaaatg agcacctcca ttaaagtct 289

<210> 846
<211> 255
<212> DNA
<213> Homo sapiens

<400> 846
aaccagccgt attttacatg aagctgtata attaattgtc attatttttg ttagcaaaga 60

ttaaatgtgt cattggaagc catccctttt tttacatttc atacaacaga aaccagaaaa 120

gcaatactgt ttccatttta aggatatgat taatattatt aatataataa tgatgatgat 180

gatgatgaaa actaaggatt tttcaagaga tctttctttc caaaacattt ctggacagta 240

cctgattgta ttttt 255

<210> 847
<211> 166
<212> DNA
<213> Homo sapiens

<400> 847
attcctgtca ttacccattg taacagagcc acaaactaat actatgcaat gttttaccaa 60

taatgcaata caaaagacct caaaatacct gtgcatttct tgtaggaaaa caacaaaagg 120

taattatgtg taattatact agaagttttg taatctgtat cttatc 166

<210> 848
<211> 198
<212> DNA
<213> Homo sapiens

<400> 848
gcactggcga ggagagggcg ctcctctctg cacacctact agtcaccaga gactttaggg 60

ggtgggattc cactcgtgtg tttctatttt ttgaaaagca gacattttaa aaaatggtca 120

cgtttggtgc ttctcagatt tctgaggaaa ttgctttgta ttgtatatta caatgatcac 180

cgactgaaaa tattgttt 198

<210> 849
<211> 187
<212> DNA
<213> Homo sapiens

<400> 849
atccggagaa ttgcctctac ctggaccttt tgtctcacac agcagtaccc tgacctgctg 60

tgcaccttac attcctagag agcagaaata aaaagcatga ctatttccac catcaaatgc 120

tgtagaatgc ttggcactcc ctaaccaaat gctgtctcca taatgccact ggtgttaaga 180

tatattt 187

<210> 850
<211> 93
<212> DNA
<213> Homo sapiens

<400> 850
atatcttgtt ttctgccaat agatttttta aaatgtagtc agcaaaatgg gggtggggaa 60

gcagagcatg tcctagttca atgttgactt ttt 93

<210> 851
<211> 257
<212> DNA
<213> Homo sapiens

<400> 851
aaaagcttcc ccaactaaag cctagaagag cttctgaggc gctgctttgt caaaaggaag 60

tctctaggtt ctgagctctg gctttgcctt ggctttgcca gggctctgtg accaggaagg 120

aagtcagcat gcctctagag gcaaggaggg gaggaacact gcactcttaa gcttccgccg 180

tctcaacccc tcacaggagc ttactggcaa acatgaaaaa tcggcttacc attaaagttc 240

tcaatgcaac cataaaa 257

<210> 852
<211> 197
<212> DNA
<213> Homo sapiens

<400> 852

ccacagcagg ccaggtccag agagaccgag gagggagagt ctcccaggga gcatgagagg 60

aggcagcagg actgtcccct tgaaggagaa tcatcaggac cctggacctg atacggctcc 120

ccagtacacc ccacctcttc cttgtaaata tgatttatac ctaactgaat aaaaagctgt 180

tctgtcttcc cacccaa 197

<210> 853

<211> 151

<212> DNA

<213> Homo sapiens

<400> 853

ataaaaaacc aacaaaggat ctcacatttt cttaaaaagt gaagattgct gtatactatt 60

tattcaactt ataatttatg ttactccttg atctttgtct tttgtcatga caaagcattt 120

atttaataaa gttatgcatt cagttaaaaa a 151

<210> 854

<211> 273

<212> DNA

<213> Homo sapiens

<400> 854

tgtctgacct ccgtgcctag tcgtggctct ccatcttgtc tcctccccgt gtccccaatg 60

tcttcagtgg ggggcccccc cttgggtccc ctcctctgcc atcacctgaa gacccccacg 120

ccaaacactg aatgtcacct gtgcctgccg cctcggtcca ccttgcggcc cgtgtttgac 180

tcaactcaac tcctttaacg ctaatatttc cggcaaaatc ccatgcttgg gttttgtctt 240

taaccttgta acgcttgcaa tcccaataaa gca 273

<210> 855
<211> 284
<212> DNA
<213> Homo sapiens

<400> 855
catctctttg atgtcatatg gaagagttaa aacaggtgga gaaattcctt gattcacaat 60

gaaatgctct cctttccccc gcccccagac cttttatcca cttacctaga ttctacatat 120

tctttaaatt tcatctcagg cctccctcaa ccccaccact tcttttataa ctagtccttt 180

actaatccaa cccatgatga gctcctcttc ctggcttctt actgaaaggt taccctgtaa 240

catgcaattt tgcatttgaa taaagcctgc tttttaagtg ttaa 284

<210> 856
<211> 245
<212> DNA
<213> Homo sapiens

<400> 856
ggtgaaattc ttcaccaaca tttcatttgc tcctttgtca tattgtaatg ccaatataat 60

atagttaatg aaaacagcat ttttaaaaac cgaaatattg aaatggtgta atgttgtacc 120

atttgcactg tgagcaaatg ctaatacagt aaatatattg tgtttgctga caatcagccg 180

gcctataaat ctccttattt tatttcttgt ttttatagca taaagcttta gtttggcctg 240

aaaaa 245

<210> 857
<211> 268
<212> DNA
<213> Homo sapiens

<400> 857
attgccactc tgctccttgc tttgggagtc ttctgctttg ctggacatga gactggaagg 60

ctgtctgggg ctgccgacac acaagctctg ttgaggaatg accaggtcta tcagcccctc 120

cgagatcgag atgatgctca gtacagccac cttggaggaa actgggctcg gaacaagtga 180

acctgagact ggtggcttct agaagcagcc attaccaact gtaccttccc ttcttgctca 240

gccaataaat atatcctctt tcactcag 268

<210> 858
<211> 251
<212> DNA
<213> Homo sapiens

<400> 858
tgggccatga ttatcttaaa ggcattattc tccagcctta agatcttagg acgtttcctt 60

tgctatgatt tgtacttgct tgagtcccat gactgtttct cttcctctct ttcttccttt 120

tggaatagta atatccatcc tatgtttgtc ccactattgt attttggaag cacataactt 180

gtttggtttc acaggttcac agttaagaag gaattttgcc tctgaataaa tagaatcttg 240

agtctcatgc a 251

<210> 859
<211> 32
<212> DNA
<213> Homo sapiens

<400> 859
ctcagcccaa cttcttaccc gaaagcatca ct 32

<210> 860
<211> 268
<212> DNA
<213> Homo sapiens

<400> 860
aatggacatc attttagcac actagcggtt tatattttaa ggaccttcat tctctgttct 60

gcacctcttc tggaaattga gtaaattttg ctttttttt tttactcagt tgcaacttac 120

gcttggcatc ttcagaatgc ttttctagca ttaagagatg taaatgataa aggaattatt 180

gtatgaaata ttacaaagcg tagactatgc attgttattc attataatat tttttgctgt 240

cataatcgcc tcataaagac aggtttca 268

<210> 861

<211> 259

<212> DNA

<213> Homo sapiens

<400> 861

cttggagata gctcttaaag atataaatgt ttatggctga aatgttatgg catcttggat 60

ttgctttaaa ataacccagc ttgctgcagg aggtgggtat tgtgtgtgtg ggaaggtggg 120

gaggctgcgg gaggaagaga tgacccaaga ttaggcagat gttgttaact gtggaagcag 180

ggtggtgagt gggggctcat gacattatgc tctctacttt gtgtacgtgt gaacatttcc 240

gtaataaaag atgccttca 259

<210> 862

<211> 166

<212> DNA

<213> Homo sapiens

<400> 862

gattttgcaa ttgtggtaaa tagcaaataa caatcttgta ttctaacata atctgcagtt 60

gtctgtatgt gttttaacta ttacagtgca tgttagggag aaattccctg aatttcttta 120

gttttgtatt caaacaatta tgccactcga tgcaacaaac ataata 166

<210> 863

<211> 158

<212> DNA

<213> Homo sapiens

<400> 863

aatctaacta actaactcat ttatttctat taaaaaggta ttgtccttta ggcggggaat 60

gggaatcctt gctgcactgt tgcagtcatt ctgaaaggac ctttccctgt acttaccttt 120

caacatgctt caatcttatc aacgctacat tttgtatt 158

<210> 864

<211> 88

<212> DNA

<213> Homo sapiens

<400> 864

tgtgtgtcac tatctccgtt tgctctcggt tcccttcaat aacaatgaat ggtgctttct 60

tctgaaagac tcagcctaat taaaggat 88

<210> 865

<211> 168

<212> DNA

<213> Homo sapiens

<400> 865

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aatttgatga atacccagtt ctcttctttt ctagagaaag atagttgcaa cctcacctcc 120

ctcactcaac actttgaata cttattgttt ggcaggtcat ccacacac 168

<210> 866

<211> 237

<212> DNA

<213> Homo sapiens

<400> 866

taagccacac agtgaatcct gtccttcaga gatggagagg tgataaaagt agaatgctca 60

ggtgtaattg gtttacggga attaaactgt tataaaaaca taaggtaaca ttcagaaatc 120

agagagcctc tgtttaaccc ttaaagacac aattaatgct tctaatactg taactactga 180

tctccctctt tctcctcagc tactctttcc ccaaacagta gcacctcctc tttactt 237

<210> 867

<211> 277

<212> DNA

<213> Homo sapiens

<400> 867

gagaaaaagc ctttagggac cctgaaccaa tgaatctgaa attccccaac tgccagatgt 60

atcttcattt ttcattttcc gggagatgta atatgtccta aaaatcacag tcgctagatt 120

gaaatcaacc ttaaaaatca tctagtccaa tgtctactcc cagtccacta cttgaatccc 180

ctgtgtcccc tcccagtagt cgtcttgaca acctccactg aaaggcaatt tctacactcc 240

atccacccca ccaccaaccc atggttcatg atctctt 277

<210> 868

<211> 280

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (55)..(63)

<223> n is a, c, g, or t

<400> 868

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nnngtgaaaa aaatgaagat aggcattttg tagacaatct ggaagttctg gaccggaatc 120

catgatgtag tcagggaaga aatgacccgt gtccagtaac cccaggcctc gagtgtgtgg 180

tgtatttttc tacataattg taatcattct atacatacaa attcatgtct tgaccatcat 240

attaatattt ggtaagtttc tctctcttta gagactccac 280

<210> 869

<211> 89

<212> DNA

<213> Homo sapiens

<400> 869

ggttgctatg cgaaagcaag actgtggttt cattccaatt tcctgtatat cggaatcatc 60

accatctgtg tatgtgtgat tgaggtgtt 89

<210> 870

<211> 274

<212> DNA

<213> Homo sapiens

<400> 870

cccttactta catactagct tccaaggaca ggtggaggta gggccagcct ggcgggagtg 60

gagaagccca gtctgtccta tgtaagggac aaagccaggt ctaatggtac tgggtagggg 120

gcactgccaa gacaataagc taggctactg ggtccagcta ctactttggt gggattcagg 180

tgagtctcca tgcacttcac atgttaccca gtgttcttgt tacttccaag gagaaccaag 240

aatggctctg tcacactcga agccaggttt gatc 274

<210> 871

<211> 135

<212> DNA

<213> Homo sapiens

<400> 871

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gattttgaga actgacttcc cgccctggtt gaggattcag ctttcttact gtgccttcct 120

catgcacatg tgcct 135

<210> 872

<211> 221

<212> DNA

<213> Homo sapiens

<400> 872

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tataattcag aggttcaaaa tggaaatgac cttgctctaa tgaaactctg ttcccatcac 120

ataattgata ggcaatgttt ctcaccattt atatgatacg gactaaaaca aggaatggaa 180

ttgatattga acccttggca aaaataacat tcatccatag g 221

<210> 873
<211> 245
<212> DNA
<213> Homo sapiens

<400> 873
gctggtacca agctaagtag ttcttattgt tggagctgta taaaacactc tggctggact 60

tgcagttgat ggtggccctc tcgcccagag acacagccag ggagtctgga gactgggtca 120

tcacgatgtc cccgtaggca ccagagatcc agagcaacag agaaatgaag acctgggtct 180

gcaacaccat cttgctgccc ctgcctgcct gttgtagctc agttcacaat gcaaacggcc 240

cgttt 245

<210> 874
<211> 292
<212> DNA
<213> Homo sapiens

<400> 874
atttccattt acctcagatg cagccccagt gagccgatgc acccctgcca tcgtgcctgc 60

ccatctgctc cccatcaagc ccatctggat ccatttcctc ttagccacac taccctcact 120

acacccatgt ttacagttta agacttcttc ttacacaggt cttgccctcc atcctgttct 180

accttttcctc ctctcttgct ctctaccttg cgtcttccaa acatgaagcc ctcatcccag 240

cacccgacac cctgaccctc tccaaactct gggcatactc tctcccactg gg 292

<210> 875
<211> 292
<212> DNA
<213> Homo sapiens

<400> 875
tctggaagtg actatgcctg agtcccaggg tgcggcaggt aggaaacatt cacagatgaa 60

gacagcagat tccccacatt ctcatctttg gcctgttcaa tgaaaccatt gtttgcccat 120

ctcttcttag tggaacttta ggtctctttt caagtctcct cagtcatcaa tagttcctgg 180

ggaaaaacag agctggtaga cttgaagagg agcattgatg ttgggtggct tttgttcttt 240

cactgagaaa ttcggaatac atttgtctca cccctgatat tggttcctga tg 292

<210> 876
<211> 90
<212> DNA
<213> Homo sapiens

<400> 876
actgtaggaa caagcatgat cttgttactg tgatatttta aatatccaca gtactcactt 60

tttccaaatg atcctagtaa ttgcctagaa 90

<210> 877
<211> 75
<212> DNA
<213> Homo sapiens

<400> 877
ctttatgaga attctcaggc tgaactatag gccattgttc ccaggcaaat caatacatca 60

atgcatcctc aaaaa 75

<210> 878
<211> 208
<212> DNA
<213> Homo sapiens

<400> 878
tttccccatg tgctttagtg ggctttggtt ttctttttgt gcgagtgtgt gtgagaatgg 60

ctgtgtggtg agtgtgaact ttgttctgtg atcatagaaa gggtatttta ggctgcaggg 120

gagggcaggg ctggggaccg aaggggacaa gttccccttt catcctttgg tgctgagttt 180

tctgtaaccc ttggttgcca gagataaa 208

<210> 879
<211> 148
<212> DNA
<213> Homo sapiens

<400> 879
accagaattt atggatgaac tgattgctta tattttagtc agggtttata aatgtagatg 60

gtcaaattta cattgcctag tgatggaaaa ttcaactttt tttgattttt ttttccaata 120

ttaaaaaagg ctctgtatgc atggtggg 148

<210> 880
<211> 207
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (182)..(182)
<223> n is a, c, g, or t

<400> 880
ctgcaaaagc cgagatgggt tccatgcagt tctccagtgg gacatcagtg cttatccgaa 60

tgtcatcaat ggcaatctct ccggaacgtc ctttccctat cactccctcg aacacaatct 120

ggtactccat gtcgtagctg ggcaggatga tccgcccgtg cttccactcg ccgccctggt 180

cntcacggat gacccacagc aacttgc 207

<210> 881
<211> 233
<212> DNA
<213> Homo sapiens

<400> 881
ggtggtttgg cctctaattt aattctgatt cagactctcc tgtcaggact caagaaaatt 60

taattaatta ccaaggatta agtcttctgg ttaaggtttc tgggaaaaaa aaatagcaaa 120

gatgttgatt tcttggaatc cttttacagg ttcataacag aaaaatcttc attccctgta 180

ggcatttaat taaacctagt tgagaagtgt gtgggattcc tcaattatga aca 233

<210> 882
<211> 254
<212> DNA
<213> Homo sapiens

<400> 882
gaagcaatgt gccaaaggtc atgattctta tcacggatgg gaaatcatca gatgctttca 60

gagatcctgc gataaaactg aggaattcag atgttgaaat ctttgcagtt ggtgtgaagg 120

atgccgttcg ctcagaattg gaagctattg cctctcctcc tgcagagacc catgtgttca 180

cagtggaaga ttttgatgct tttcagagga tatcttttga actcacacag tctatctgcc 240

ttagaattga gcaa 254

<210> 883
<211> 244
<212> DNA
<213> Homo sapiens

<400> 883
aatgccctta atgtgagggt ttgtaatggt gcttattaag accaaagact tgttaaatgt 60

atacaccaag tggtaatgaa atttcgtgac tggcccacac gtgcatagag gtctgggagg 120

accaggaaac agcctcagtg gccagaggat caccagtgca tccttcatca cagcatgtgc 180

aatatgccaa gattaccctc ggtcattcct gtcaacaagg ggtcaatgtc ataaatgtca 240

caat 244

<210> 884
<211> 291
<212> DNA
<213> Homo sapiens

<400> 884
gaagcatagc acctttcagt atctaaaata taaacaagaa tagtaagtcc atcccagctt 60

ctagagatga ggtagctcat gctaagaaat gttgggtcat ttttcctatg aaagttcaaa 120

ggccaaatgg tctaattcca atcatcacat ttgattagag tcagctccac aactcagttt 180

ctagatcttt ttcttcatta taggcttcag gatgatgaga ttgtacatgt ggaagagtct 240

caatttagag tccttggaca tatgtttgta aagttctata tgtcacctcg t 291

<210> 885
<211> 191
<212> DNA
<213> Homo sapiens

<400> 885
caaacagagt gaactttctg ccaagatgcg ggagtggttt tcagagacat ttcagaaagt 60

gaaggagaaa ctcaagattg actcatgagg acctgaaggg tgacatccca ggaggggcct 120

ctgaaatttc ccacacccca gcgcctgtgc tgaggactcc ctccatgtgg ccccaggtgc 180

caccaataaa a 191

<210> 886
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (194)..(206)
<223> n is a, c, g, or t

<400> 886
aagatggcta gaatggtgcc tttctgagtg tctaaaactt gacacccctg gtaaatcttt 60

caacacactt ccactgcctg cgtaatgaag ttttgattca tttttaacca ctggaatttt 120

tcaatgccgt cattttcagt tagatgattt tgcactttga gattaaaatg ccatgtctat 180

ttgattagtc ttannnnnnn nnnnnnacag gcttatcatt ctcactgttg gctgtcat 238

<210> 887
<211> 188
<212> DNA
<213> Homo sapiens

<400> 887
gcacaccaga ttcagggaga ctgaccacca agggatagtg taaaaggaca ttttctcagt 60

tgggtccatc agcagttttt cttcctgcat ttattgttga aaactattgt ttcatttctt 120

cttttatagg ccttattact gcttaatcca aatgtgtacc attggtgaga cacatacaat 180

gctctgaa 188

<210> 888
<211> 191
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (38)..(51)
<223> n is a, c, g, or t

<400> 888
gaggtgtcaa acagcagagt gtactttcca aagaacannn nnnnnnnnnn nacacagcaa 60

atcccaagcc ttcccagtct cacacctttc cacccattca taaaaaaaca cacgaatttc 120

tcgcaagttc caatatcact gtctctttat catctaaata gggccagttg gacacctcat 180

tgaaacaaaa a 191

<210> 889
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (114)..(145)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (219)..(232)
<223> n is a, c, g, or t

<400> 889
tatatttcca tgtctgctgt aatgtatcca agtcttgtaa agaccaataa tttattaatt 60

ttaataagac agaaagtatt tctccttcta gtctcatcgt ctgatttgaa aggnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnngtgag ttccaggaag aaatgttttt ctttttcat 180

ataaaatggt agctgtatgt atgtaactct gaattaaann nnnnnnnnnn nncagtcact 240

ctggttctaa atccttattg ggcaagctgg agttttgaag tgacccaa 288

<210> 890
<211> 189
<212> DNA
<213> Homo sapiens

<400> 890
accacacaag cagtgactcc taaagaagtt cagaggaagg agagaaccca tggggagggg 60

gtgcagtggg ggtgggtcag ggtgggctcc ctggagggga aattggtcta ggcaaggatg 120

cagactggcc agtaaggtgg gtccatgcag gaagctgagg gaggtggaag gcccgtgggt 180

ctcgagcgc 189

<210> 891
<211> 269
<212> DNA
<213> Homo sapiens

<400> 891
ttccttcttg gcctaactct tccagttagg atctagaact ttgccttttt ttttttttt 60

tttttttga gatgggttct cactatattg tccaggctag agtgcagtgg ctattcacag 120

atgcgaacat agtacactgc agcctccaac tcctagcctc aagtgatcct cctgtctcaa 180

cctcccaagt aggattacaa gcatgcgccg acgatgccca gaatccagaa ctttgtctat 240

cactctcccc aacaacctag atgtgaaaa 269

<210> 892
<211> 183
<212> DNA
<213> Homo sapiens

<400> 892
gagagttcaa ctaagaaagg tcacatatgt gaaagcccaa ggacactgtt tgatatacag 60

caggtattca atcagtgtta tttgaaacca aatctgaatt tgaagtttga atcttctgag 120

ttggaatgaa tttttttcta gctgagggaa actgtatttt tctttcccca aagaggaatg 180

taa 183

<210> 893
<211> 187
<212> DNA
<213> Homo sapiens

<400> 893
ccttcatgct gccttcaaag ctagatcatg tttgccttgc ttagagaatt actgcaaatc 60

agccccagtg cttggcgatg catttacaga tttctaggcc ctcagggttt tgtagagtgt 120

gagccctggt gggcagggtt gggggggtctg tcttctgctg gatgctgctt gtaatccatt 180

tggtgta 187

<210> 894
<211> 183
<212> DNA
<213> Homo sapiens

<400> 894
ttctgtgtct gaagtgtaag tgaacacaga agagtgacat gtttacaaac ctcaagccag 60

ccttgctcct ggctggggcc tgttgaagat gcttgtattt tacttttcca ttgtaattgc 120

tatcgccatc acagctgaac ttgttgagat ccccgtgtta ctgcctatca gcattttact 180

act 183

<210> 895
<211> 272

<212> DNA

<213> Homo sapiens

<400> 895

tcctcacccc ggtatgaatg tgtttcctcc acattgtata tccttccacc ctctggctgc 60

ctagatcagt aaataaaatt gatgtaatat aatttataag taacactgtt gaaaccctga 120

tcccagtgga ggctgtaacc cacctgcccc cgcaccaccc ccctgacccc tgttaccgca 180

tttgtgtgta ttaatgctga agaattaaat gtttaaagag tttaaatttt gaaggcgttt 240

gctatataca gttgtcctgc attattataa ag 272

<210> 896

<211> 224

<212> DNA

<213> Homo sapiens

<400> 896

aggccattct gagccacact gaaaaggaaa atgggaattt ataacccagt gagttcagcc 60

tttaagatac cttgatgaag acctggacta ttgaatggag cagaaattca cctctctcac 120

tgactattac agttgcattt ttatggagtt cttcttctcc taggattcct aagactgctg 180

ctgaatttat aaaaattaag tttgtgaatg tgactactta gtgg 224

<210> 897

<211> 191

<212> DNA

<213> Homo sapiens

<400> 897

caaacagagt gaactttctg ccaagatgcg ggagtggttt tcagagacat ttcagaaagt 60

gaaggagaaa ctcaagattg actcatgagg acctgaaggg tgacatccca ggaggggcct 120

ctgaaatttc ccacacccca gcgcctgtgc tgaggactcc ctccatgtgg ccccaggtgc 180

caccaataaa a 191

<210> 898

<211> 217

<212> DNA

<213> Homo sapiens

<400> 898

aggttagatt ctcattcacg ggactagtta gctttaagca ccctagagga ctagggtaat 60

ctgacttctc acttcctaag ttcccttcta tatcctcaag gtagaaatgt ctatgttttc 120

tactccaatt cataaatcta ttcataagtc tttggtacaa gtttacatga taaaaagaaa 180

tgtgatttgt cttccccttct ttgcactttt gaaataa 217

<210> 899

<211> 174

<212> DNA

<213> Homo sapiens

<400> 899

tccccagagt tcttgcaccc tcattccctc gggaccctcc cagtgagaag ggcctgctct 60

gcttttcctg tctgtatata acttatttgc cctaagaact ttgagaatcc caattattta 120

ttttaatgta ttttttagac cctctattta cctgcgaact tgtgtttata ataa 174

<210> 900
<211> 269
<212> DNA
<213> Homo sapiens

<400> 900
ttccttcttg gcctaactct tccagttagg atctagaact ttgccttttt ttttttttt 60

tttttttga gatgggttct cactatattg tccaggctag agtgcagtgg ctattcacag 120

atgcgaacat agtacactgc agcctccaac tcctagcctc aagtgatcct cctgtctcaa 180

cctcccaagt aggattacaa gcatgcgccg acgatgccca gaatccagaa ctttgtctat 240

cactctcccc aacaacctag atgtgaaaa 269

<210> 901
<211> 231
<212> DNA
<213> Homo sapiens

<400> 901
aaaacttggc acttttcgt gtggatcttg ccacatttct gatcagaggt gtacactaac 60

atttcccccg agctcttggc ctttgcattt atttatacag tgccttgctc ggggcccacc 120

acccccctcaa gccccagcag ccctcaacag gcccagggag ggaagtgtga gcgccttggt 180

atgacttaaa attggaaatg tcatctaacc attaagtcat gtgtgaacac a 231

<210> 902
<211> 186
<212> DNA
<213> Homo sapiens

<400> 902
taggtggtag atattgaggc caagaatatt gcaaaataca tgaagcttca tgcacttaaa 60

gaagtatttt tagaataaga atttgcatac ttacctagtg aaacttttct agaattattt 120

ttcactctaa gtcatgtatg tttctctttg attatttgca tgttatgttt aataagctac 180

tagcaa 186

<210> 903
<211> 159
<212> DNA
<213> Homo sapiens

<400> 903
caccctcaga tgcacatgag ctggcgggat tgaaggatgc tgtcttcgta ctgggaaagg 60

gattttcagc cctcagaatc gctccacctt gcagctctcc ccttctctgt attcctagaa 120

actgacacat gctgaacatc acagcttatt tcctcattt 159

<210> 904
<211> 295
<212> DNA

<213> Homo sapiens

<400> 904

aggatccatc ctattgtcaa tgagatgttc tcatccagaa gccatagaat cctgaataat 60

aattctaaaa gaaacttcta gagatcatct ggcaatcgct tttaaagact cggctcaccg 120

tgagaaagag tcactcacat ccattcttcc cttgatggtc cctattcctc cttcccttgc 180

ttcttggact tcttgaaatc aatcaagact gcaaaccctt tcataaagtc ttgccttgct 240

gaactccctc tctgcaggca gcctgccttt aaaaatagtt gctgtcatcc acttt 295

<210> 905

<211> 175

<212> DNA

<213> Homo sapiens

<400> 905

ccccacgtga cagtgcctgg gaatgtatta ttctgcagca tgacctgtga ccagcactgt 60

ctcagtttca ctttcacata gatgtccctt tcttggccag ttatcccttc cttttagcct 120

agttcatcca atcctcactg ggtggggtga ggaccactcc tgtacactga atatt 175

<210> 906

<211> 228

<212> DNA

<213> Homo sapiens

<400> 906

gttgtggggt caaccgtaca atggtgtggg agtgacgatg atgtgaatat ttagaatgta 60

ccatattttt tgtaaattat ttatgttttt ctaaacaaat ttatcgtata ggttgatgaa 120

acgtcatgtg ttttgccaaa gactgtaaat atttatttat gtgttcacat ggtcaaaatt 180

tcaccactga aaccctgcac ttagctagaa cctcattttt aaagatta 228

<210> 907
<211> 293
<212> DNA
<213> Homo sapiens

<400> 907
agaggtcttt aatcattggt tcggctgctt ttatgtagtt taggctggaa atggtttcac 60

ttgctctttg actgtcagca agactgaaga tggcttttcc tggacagcta gaaaacacaa 120

aatcttgtag gtcattgcac ctatctcagc cataggtgca gtttgcttct acatgatgct 180

aaaggctgcg aatgggatcc tgatggaact aaggactcca atgtcgaact cttctttgct 240

gcattccttt ttcttcactt acaagaaagg cctgaatgga ggacttttct gta 293

<210> 908
<211> 137
<212> DNA
<213> Homo sapiens

<400> 908
gtcagacaga tgtggttgca tcctaactcc atgtctctga gcattagatt tctcatttgc 60

caataataat acctccctta gaagtttgtt gtgaggatta ataatgtaa ataaagaact 120

agcataacac tcaaaaa 137

<210> 909
<211> 267
<212> DNA
<213> Homo sapiens

<400> 909
gccttctggc tgacaatcct ggaaatctgt tctccagaat ccaggccaaa aagttcacag 60

tcaaatgggg aggggtattc ttcatgcagg agaccccagg ccctggaggc tgcaacatac 120

ctcaatcctg tcccaggccg gatcctcctg aagccctttt cgcagcactg ctatcctcca 180

aagccattgt aaatgtgtgt acagtgtgta taaaccttct tcttcttttt ttttttttaa 240

actgaggatt gtcattaaac acagttg 267

<210> 910
<211> 254
<212> DNA
<213> Homo sapiens

<400> 910
aattcagtgg tgtgagtata ttcataagat ttatacttgg tgtctattca taagacttat 60

atccagcata ttcataacta gagccatatc acagatgcat tcatcataat aattccagac 120

attttcatca ccctaaaagg aaaccctgaa acccattagc agtcattccc cattcctcca 180

acccattctc tccctaatcc ctagaaacca ccaatctgct gtgtatttca tctattgcca 240

acatttcata taaa 254

<210> 911
<211> 162
<212> DNA
<213> Homo sapiens

<400> 911
tacgttatgt atttgacaag tggtggtgaa acaaaatcaa aacagatttg atttgtgttt 60

ttgaaatgtc agtacatttt gtgccactaa cactgtgatg tataaaagag ctgtttgaat 120

gccttttaat gttgtgtttt gtactctgga atcatatgga aa 162

<210> 912
<211> 254
<212> DNA
<213> Homo sapiens

<400> 912
aaagattaaa ttgctattgc tgtagtaaga gaagctcttt gtatctgaac atagttgtat 60

ttgaaatttg tggtttttta atttatttaa aattgggggg agggcatggg aaggatttaa 120

caccgatata ttgttaccgc tgaaaatgaa ctttatgaac cttttccaag ttgatctatc 180

cagtgacgtg gcctggtggg cgtttcttct tgtacttatg tggtttttg gcttttaata 240

cagacatttt cctc 254

<210> 913

<211> 83

<212> DNA

<213> Homo sapiens

<400> 913

tctgctgaac atgagcttca gttgctactc ggagcattga gagggaggcc taagaataat 60

aacaatccag tgcttaagag tca 83

<210> 914

<211> 296

<212> DNA

<213> Homo sapiens

<400> 914

gccacaagag aagagctcta gtcctggact ctaccctcct ctgaaagaag ctggggcttg 60

ctctgacggt ctccactccc gtctgcaggc agccaggagg gcaggaagcc cttgctctgt 120

gctgccatcc tgcctccctc ctccagcctc agggcactcg ggcctgggtg ggagtcaacg 180

ccttcccctc tggactcaaa taaaacccag tgacctcact tcttttctct gcaaaaggtg 240

cttgtggggc tgggagtgca gacattggtg tttctgctga tgtcccttgt gaaaaa 296

<210> 915

<211> 244

<212> DNA

<213> Homo sapiens

<400> 915

atttacctat atagcaagcc tacacatgtg cccctgaacc taaaaaaaaa gttaaaagaa 60

aaacgtttgg attattttcc ctctttcgaa caaagacatt ggtttgccca aggactacaa 120

ataaaccaac gggaaaaaag aaaggttcca gttttgtctg aaaattctga ttaagcctct 180

gggccctaca gcctggagaa cctggagaat cctacaccca cagaacccgg ctttgtcccc 240

aaag 244

<210> 916
<211> 253
<212> DNA
<213> Homo sapiens

<400> 916
gaaacaagat tagtcctgag ttaacaatgg ctgcaagctg gatacatgga attcagcaca 60

cttttctccc tcttactgat tatgcttttg aaattttctc ttgtaaaaca tttagaaaac 120

aaaaacaaaa aaaatgtgat ttgtttctgt cttcaaaatc tcattagaat tttttcactg 180

gaggaagatt ttcccttgct tctgcataaa attttaactc cataacttat aagctcactc 240

tttattgtta ctt 253

<210> 917
<211> 74
<212> DNA
<213> Homo sapiens

<400> 917

aaaaatttaa ctcccatatg tgttcctctt gttcctaatc ttgtcaaccc agtgcaagtg 60

accgacaaaa ttcc 74

<210> 918
<211> 294
<212> DNA
<213> Homo sapiens

<400> 918
actccacagt ttccattgtg aatggcttct ttggtgcaga gttccaaaaa ttatgtagcc 60

cagctcttta attttgtaac atctaatgat atcaccgcct tgaagtgatt aaagtagatt 120

gcttaaagaa ttaaagcttt aaagatgaaa gatgttattg cttttgctgg acatgaggaa 180

cagttgtaaa gtttccaggt ctacaataac tttctggaac cctctcagtg aactgtttct 240

tgtaaaagtt ttccctaaga taaaagctca atcccattgt ttccacactc aaaa 294

<210> 919
<211> 153
<212> DNA
<213> Homo sapiens

<400> 919
gggcatgtgg gctgttgtga gtgaagccac ttcagacgtt tgcgtgcagg tttggtgggg 60

acgtgcagtt tcatttcttt tgagagtggg attgctggag cctatgttaa gggtacgttc 120

aactcatcag ctcaactgtc ttccaaatgg cag 153

<210> 920
<211> 266
<212> DNA
<213> Homo sapiens

<400> 920
ttatcaactg tgcacaagga aaaaaataga tatgtgaaag gttcacgtaa atttcctcac 60

atcacagaag attaaaattc agaaaggaga aaacacagac caaagagaag tatctaagac 120

caaagggatg tgttttatta atgtctagga tgaagaaatg catagaacat tgtagtactt 180

gtaaataact agaaataaca tgatttagtc ataattgtga aaaataataa taatttttct 240

tggatttatg ttctgtatct gtgaaa 266

<210> 921
<211> 202
<212> DNA
<213> Homo sapiens

<400> 921
gtggaggata ttgcaactgg agttcagaca ctgtactcga agtggaagga ctttcatttt 60

gagaagatac catttgatcc agcagaaatg tccaaatgat atcaggtcct caatcttcag 120

ctacagggaa tgagtaactt tgagtggaga agaaacaaac atagtgggta taatcatgga 180

tcgcttgtac ccctgtgaaa at 202

<210> 922

<211> 208

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (124)..(124)

<223> n is a, c, g, or t

<400> 922

gaatatgtgg cagagctcct ggaaatgatg cagattaggt ggcatttttg tcagctctgt 60

ggtttattgt tgggactatt ctttaaaata tccattgttc actacagtga agatctctga 120

tttnaccgtg tactatccac atgcattaca aacatttcgc agagctgctt agtatataag 180

cgtacaatgt atgtaataac catctcat 208

<210> 923

<211> 150

<212> DNA

<213> Homo sapiens

<400> 923

gctgataaat agcattaggg ttctttgcaa tgtggtatct agctgtatta ttggttttat 60

ttactttaaa cattttgaaa agcttatact ggcagcctag aaaaacaaac aattaatgta 120

tctttatgtc cctggcacat gaataaactt 150

<210> 924

<211> 97

<212> DNA

<213> Homo sapiens

<400> 924

caaattcaag tcactagact tcagagttca acacctggac atgagaagat attatattat 60

gtaccataaa tatttcctgt atctgactgc ctgaaca 97

<210> 925

<211> 237

<212> DNA

<213> Homo sapiens

<400> 925

agcaagactt gctgcctaaa ggagcccacc attttacttt tcacatttaa tctgccacgt 60

tgaatcaatt ggaataaaac ctgactcgca ggtgactgga caggaaatcc caaagttcca 120

ccatttctat gcttaatttt aacgtccccc cgctttttt tttgtagaaa ataaaaacaa 180

gaaaatcgtt ccaatgtaag atgtttgtta tagaaacttt aggcaataca ggtgtgt 237

<210> 926

<211> 292

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (54)..(55)

<223> n is a, c, g, or t

<400> 926

ttgcaagtca attaggtgtc ttgtgaacaa ggaaatacta atctctaagc tgcnngggtc 60

tttttgtgtg aatatttaat ggtgctccat gactgttgag ttttaaaaac ctcgttaaat 120

tttgccaaat cagttgcccc caaaagggaa tatgcttttc cttatttttt tttctaaaat 180

gctatttatc tctaaggaaa aaaaaaaaag actattactc atttaacatt gtttaagcag 240

gttgagctag ctgtgaaaat agcttttgtg agccttctaa ttcctaaacg tc 292

<210> 927

<211> 243

<212> DNA

<213> Homo sapiens

<400> 927

gttaacactg tggatcacct tcggccaagg gacacgactg gagattaaac gtaagtaatt 60

tttcactatt gtcttctgaa atttgggtct gatggccagt attgactttt agaggcttaa 120

ataggagttt ggtaaagatt ggtaaatgag ggcatttaag atttgccatg ggttgcaaaa 180

gttaaactca gcttcaaaaa tggatttgga gaaaaaaaga ttaaattgct ctaaactgaa 240

tga 243

<210> 928

<211> 120

<212> DNA

<213> Homo sapiens

<400> 928

tcattctcat ccatccagga tgtactaaaa cagtgtgttt aataaattgt aattattttg 60

tgtacagttc tatactgtta tctgtgtcca tttccaaaac ttgcacgtgt ccctgaattc 120

<210> 929

<211> 185

<212> DNA

<213> Homo sapiens

<400> 929

aaggtttggc agaaattgtt ttttgagtgg ctcaccagag tacccagaag aatcagtatg 60

gaattagagg acagtggcct accctaaata aagacatgag tgatgtataa agtctagtgt 120

caatttattc agaaaatatc aaaattattc tgggagctat gggtcaaagt tgataggcac 180

aaaca 185

<210> 930

<211> 130

<212> DNA

<213> Homo sapiens

<400> 930

atcccaatag atatcccccc atgtgcatgc acacctgcac actcacggct gaaatctccc 60

taacccaggg ggaccttagc atgcctaagt gactaaacca ataaaaatgt tctggtctgg 120

cctgaaaaaa 130

<210> 931
<211> 86
<212> DNA
<213> Homo sapiens

<400> 931
aagcagacta cgagaaacac aaagtctacg cctgcgaagt cacccatcag ggcctgagct 60

cgcccgtcac aaagagcttc aacagg 86

<210> 932
<211> 264
<212> DNA
<213> Homo sapiens

<400> 932
ggtacacaaa tctggttctc aatggtgagg tgggatcaga gatattctcc ctgttgttca 60

gaggaacaat aattcggatg tttctctcca caatgtcctc attaggatct tcggaagaac 120

ggatgatcct ggaagtaatc cgggcacact tacatttgtt gtcaacaaga acaatccttt 180

catcttcttg ggctttcaca tgaacagcct taataaaaac cgccaggact ccccagaaaa 240

gcaaatggtt cttcatcttg accc 264

<210> 933
<211> 101
<212> DNA
<213> Homo sapiens

<400> 933

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gtctagtgct caaaacttgc agctagaatt gagggaagag a 101

<210> 934

<211> 233

<212> DNA

<213> Homo sapiens

<400> 934

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atgaagacag agccccaccc tcagatgcac atgagctggc gggattgaaa gatgctgtct 120

tcgtactggg aaagggattt tcagccctca gaatcgctcc accttgcagc tctccccttc 180

tctgtattcc tagaaactga cacatgctga acatcacagc ttatttcctc att 233

<210> 935

<211> 256

<212> DNA

<213> Homo sapiens

<400> 935

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cccatcttcc aagggtataa ggaatctttc tgctttgggg tttatcagaa ttctcagaat 120

ctcaaataac taaaaggtat gcaatcaaat ctgcttttta aagaatgctc tttacttcat 180

ggacttccac tgccatcctc ccaaggggcc caaattcttt cagtggctac ctacatacaa 240

ttccaaacac atacag 256

<210> 936
<211> 259
<212> DNA
<213> Homo sapiens

<400> 936
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accaaatgtt gacctgacga aattccacaa aacctcttct ggaaacagta ctagcaaagg 120

ccagacgtct tactcaacaa cttccctgcc accacctcca ccatcccatc cggccagcca 180

accaccattg ccagcatctc acccatcaca accaccagtc ccaagcctac ctcccagaaa 240

cattaaacct ccgtttgac 259

<210> 937
<211> 114
<212> DNA
<213> Homo sapiens

<400> 937
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gtccgtgaca tgccacgtga agcactacac gaatcccagc caggatgtga ctgt 114

<210> 938

<211> 265

<212> DNA

<213> Homo sapiens

<400> 938

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attattaaaa acaccaccaa agaaaataaa tatatcctac ttgaaattta ctctatggac 120

ttacccactg ctagaataaa tgtatcaaat cttatttgta aattctcaat tttgatatat 180

atatgtatat atgcatatac atatccacac ttgtctgcaa gaatattgat taaaattgct 240

aaatttgtac ttgttcacca gaaaa 265

<210> 939

<211> 198

<212> DNA

<213> Homo sapiens

<400> 939

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gcccagagga ctgttaataa cgatgatcca tgtgttttac tctaaagtgc taaatatggg 120

agtttccttt ttttactctt tgtcactgat gacacaacag aaaagaaact gtagaccttg 180

ggacaatcaa catttaaa 198

<210> 940

<211> 162

<212> DNA

<213> Homo sapiens

<400> 940

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tctcttagga atacagtttc tagcattaaa caaataaaca aggggagaaa ataaaactca 120

aggagtgaaa atcaggaggt gtaataaaat gttcctcgca tt 162

<210> 941

<211> 256

<212> DNA

<213> Homo sapiens

<400> 941

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cgccctgttt ctctcaggaa gccttgctct tttccatcat gcctctaatc acagcttata 120

atcggatatt tatttctgtg tctacagtct tgccctgcca gactgtatgc cccatgtggg 180

caggcgctca tgattgtttc tgattgtttc acgcatgctg ctaacccaga gcctgggccc 240

aaagctagtt agtact 256

<210> 942

<211> 294

<212> DNA

<213> Homo sapiens

<400> 942

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tttgttttgc tctattgttt agtttttact tgggtgcaat gtgtacgtca aaagttttta 120

ttttgatatt tgaaagagac caaatcaggc ccagaccgcc tctctggaag gtgttgtagg 180

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gtaaacatca tagtgacttg tcttttcaaa tatattccca ctattttcgc agaa 294

<210> 943
<211> 221
<212> DNA
<213> Homo sapiens

<400> 943
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ggcagcaggg gaacatcttc tcatgctccg tgatgcatga ggctctgcac aaccgcttca 120

cgcagaagag cctctccctg tctccgggta aatgagtgcg acggccggca agccccccgct 180

ccccgggctc tcggggtcgc gcgaggatgc ttggcacgta c 221

<210> 944
<211> 239
<212> DNA
<213> Homo sapiens

<400> 944
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ctctgacttt gctgtttcca gtggtatgac cttggagaag tcacttatcc tcttggagcc 120

tcagtttcct catctgcaga ataatgactg acttgtctaa ttcgtaggga tgtgaggttc 180

tgctgaggaa atgggtatga atgtgccttg aacacaaagc tctgtcaata agtgataca 239

<210> 945
<211> 181
<212> DNA
<213> Homo sapiens

<400> 945
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gataaatcaa gtgattggtg tgcctgggtc tcactacaag cagcctatct gcttaagaga 120

ctctggagtt tcttatgtgc cctggtggac acttgcccac catcctgtga gtaaaagtga 180

a 181

<210> 946
<211> 228
<212> DNA
<213> Homo sapiens

<400> 946
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tcaggggcgg ggagggtgac agtggccgcc caaggcccac gagcttgttc tttgttcttt 120

gtcacaggga ctgaaaacct ctcctcatgt tctgctttcg attcgttaag agagcaacat 180

tttacccaca cacagataaa gttttccctt gaggaaacaa cagcttta 228

<210> 947
<211> 136
<212> DNA
<213> Homo sapiens

<400> 947
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acgtctgcta acttggagcc ccagtgccaa gcacagtgcc tgcatgtatt tatccaataa 120

atgtgaaatt ctgtcc 136

<210> 948
<211> 193
<212> DNA
<213> Homo sapiens

<400> 948
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aaaaaaatcc cccagcactt cccacagtgc ctattgatac ttggggaggg tgcttggcac 120

ttattgaata tatgatcggc catcaaggga agaactattg tgctcagaga cactgttgat 180

aaaaactcag gca 193

<210> 949
<211> 175
<212> DNA
<213> Homo sapiens

<400> 949

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ccagcccctg ccatttctta agactttctg ctgcactcac aggatcctga gctgcactta 120

cctgtgagag tcttcaaact tttaaacctt gccagtcagg acttttgcta ttgca 175

<210> 950

<211> 183

<212> DNA

<213> Homo sapiens

<400> 950

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gtttccaaaa aatggtactc cacatacttc agtgagggta agtattttcc tgttgtcaag 120

aatagcattg taaaagcatt ttgtaataat aaagaatagc tttaatgata tgcttgtaac 180

taa 183

<210> 951

<211> 235

<212> DNA

<213> Homo sapiens

<400> 951

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gcccatcaaa tcctgagtgt cagtttgttg tccctattgt agatgaaata gtgatgtagc 120

aaaaacctag taaattctga atgcttttcc acgtagactt atctggaatg tgaacacaac 180

tctttggtta atagtaaatg cttaactgta gtcctgagta ggtgcatttc tgtct 235

<210> 952
<211> 154
<212> DNA
<213> Homo sapiens

<400> 952
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accttcatca ctattcttag gataatgctg gcgggcagag atgatcaatc atcatattaa 120

atcataatga gcttataatc ctcccactgg aaaa 154

<210> 953
<211> 280
<212> DNA
<213> Homo sapiens

<400> 953
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gcatggggtg ttggcagggg tcaaaaagct tatttctttt aatctcttac tcaacgaaca 120

catcttctga tgatttccca aaattaatga gaatgagatg agtagagtaa gatttgggtg 180

ggatgggtag gatgaagtat attgcccaac tctatgtttc tttgattcta acacaattaa 240

ttaagtgaca tgatttttac taatgtatta ctgagactag 280

<210> 954
<211> 206
<212> DNA
<213> Homo sapiens

<400> 954
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ataaaattat tgtatagaca tctgcttctt aaacagattg tgagttcttt gagaaacagc 120

gtggatttta cttatctgtg tattcacaga gcttagcaca gtgcctggta atgagcaagc 180

atacttgcca ttacttttcc ttccca 206

<210> 955
<211> 247
<212> DNA
<213> Homo sapiens

<400> 955
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tagactgtgt gcgtgtgcgt tgatgggcac tcaagagtcc cgtgagtcat ccagccctgc 120

ctttcccctg cgcccccatc ctctcacgtc ccgccctgcc tccacttggg gaccctgcct 180

cgtgtcgtct ttatctgcct attactcagc ctaaggaaac aagtacactc cacacatgca 240

taaagga 247

<210> 956

<211> 190

<212> DNA

<213> Homo sapiens

<400> 956

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cttgagtgtg ttacctcctt tccaagctcc tcgtgataat gcagacttcc tggagtacaa 120

acacaggatt tgtaattcct tactgtaacg gagtttagag ccagggctga tgctttggtg 180

tggccagcac 190

<210> 957

<211> 165

<212> DNA

<213> Homo sapiens

<400> 957

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ttatctctcc atgggaagct aagttataaa aataggtgct tggtgtacaa aacttttat 120

atcaaaaggc tttgccattt ctatatgagt gggtttactg gtaaa 165

<210> 958

<211> 260

<212> DNA

<213> Homo sapiens

<400> 958

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ctggaggggg aagagctctc aacccagagg gatctgacca ggaaggttca ccccccctcc 120

acccaggaag cccctgcaga cagtatgtgt tttaggcttt gctggccaaa tggtctctgc 180

cgtgactact cagctctgcc attgtggctg cagagtgacc atagaccttc tgaaagtgaa 240

tgagtatgac tgtgttccaa 260

<210> 959
<211> 197
<212> DNA
<213> Homo sapiens

<400> 959
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atgtttattc cctgtcagcg gagtggagaa tgtcattcat caataaacca aagccaatag 120

ctggagaatt gagatctggt tgaaagtggt ttatggttta catgctgtac tatcctgagg 180

aattgcgaga tattgct 197

<210> 960
<211> 187
<212> DNA
<213> Homo sapiens

<400> 960
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tggacttaag aataaacctt gtgtttaatc tctttttttc cttaaaattt taatgtgagt 120

tttctgttac gcaaattatc catgttagca catttggaac aaatgtataa atgtactttc 180

tgaataa 187

<210> 961
<211> 228
<212> DNA
<213> Homo sapiens

<400> 961
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tcaggggcgg ggagggtgac agtggccgcc caaggcccac gagcttgttc tttgttcttt 120

gtcacaggga ctgaaaacct ctcctcatgt tctgctttcg attcgttaag agagcaacat 180

tttacccaca cacagataaa gttttccctt gaggaaacaa cagcttta 228

<210> 962
<211> 213
<212> DNA
<213> Homo sapiens

<400> 962
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tgcgaggttc tactagctcc ctgcccctcg ccctgcagag aagagaacca tgccagggga 120

gaaggcaccc agccatcctg acccagcgag gagccaacta tcccaaatat acctggggtg 180

aaatatacca attctgcat ctccagagga aaa 213

<210> 963
<211> 104
<212> DNA
<213> Homo sapiens

<400> 963
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cgtgtcttcc actttgcata tgagccgtga actgtgcata gtgc 104

<210> 964
<211> 132
<212> DNA
<213> Homo sapiens

<400> 964
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gctctattca atacttctcc tctcagatga tagtaaagat caaaagaatt cgaagggagt 120

tggtaaacgc tg 132

<210> 965
<211> 281
<212> DNA
<213> Homo sapiens

<400> 965
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gaatgttgtg ctgagctgtg cagcctgttc ctgcatctgt tgttcctgca ttttctgttg 120

ctctgccagc caattttgtt tggctatctc catttaactc acttgttcct gatggagtct 180

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agccttttca gcttctgctt tcacttgtgc ctctgaggag a 281

<210> 966
<211> 239
<212> DNA
<213> Homo sapiens

<400> 966
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actcttcttc cctctaaact gccccacctc ctaacctaat ccccccgccc cgctgccttt 120

cccaggctcc cctcacccca gcgggtaatg agcccttaat cgctgcctct aggggagctg 180

attgtagcag cctcgttagt gtcacccccc cctccctgat ctgtcagggc cacttagtg 239

<210> 967
<211> 174
<212> DNA
<213> Homo sapiens

<400> 967
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cacctcaccc cactgtggct gatttggaat tttgtgcccc catgtaagca ccccttcatt 120

tggcattccc cacttgagaa ttacccttt gccccgaaca tgtttttctt ctcc 174

<210> 968
<211> 270
<212> DNA
<213> Homo sapiens

<400> 968
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gaaacagact gcctgaattg agaattttga tttcttaaag tgtgtttctt tctaaattgc 120

tgttccttaa tttgattaat ttaattcatg tattatgatt aaatctgagg cagatgagct 180

tacaagtatt gaaataatta ctaattaatc acaaatgtga agttatgcat gatgtaaaaa 240

atacaaacat tctaattaaa ggctttgcaa 270

<210> 969
<211> 276
<212> DNA
<213> Homo sapiens

<400> 969
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ctttattgtg gcatctgttc gaggtttgct tcctctttaa gtctgtttct tcattagcaa 120

tcatatcagt tttaatgcta ctactaacaa tgaacagtaa caataatatc cccctcaatt 180

aatagagtgc tttctatgtg caaggcactt ttcacgtgtc acctatttta acctttccaa 240

ccacataaat aaaaaaggcc attattagtt gaatct 276

<210> 970
<211> 264
<212> DNA
<213> Homo sapiens

<400> 970
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gcccatcaaa tcctgagtgt cagtttgttg tccctattgt agatgaaata gtgatgtagc 120

aaaaacctag taaattctga atgcttttcc acgtagactt atctggaatg tgaacacaac 180

tctttggtta atagtaaatg cttaactgta gtcctgagta ggtgcatttc tgtctgtctc 240

aataaatttt actttgtctg caaa 264

<210> 971
<211> 275
<212> DNA
<213> Homo sapiens

<400> 971
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taaatgttga cagaggccct gccccgttca cagatcctgg ccctgagcca gccctgtgct 120

cctccctccc ccaacactcc ctaccaaccc cctaatcccc tactccctcc acccccccctc 180

cactgtaggc cactggatgg tcatttgcat ctccgtaaat gtgctctgct cctcagctga 240

gagagaaaaa aataaactgt atttggctgc aagaa 275

<210> 972
<211> 210
<212> DNA
<213> Homo sapiens

<400> 972
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cgttcccctg ctgccacctg ctcttgtcca cggtgagctt gctatagagg aagaaggagc 120

cgtcggagtc cagcacggga ggcgtggtct tgtagttgtt ctccggctgc ccattgctct 180

cccactccac ggcgatgtcg ctgggataga 210

<210> 973
<211> 235
<212> DNA
<213> Homo sapiens

<400> 973
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aaatttaatt ttctacgcct ctggggatat ctgctcagcc aatggaaaat ctgggttcaa 120

ccagcccctg ccatttctta agactttctg ctccactcac aggatcctga gctgcactta 180

cctgtgagag tcttcaaact tttaaacctt gccagtcagg acttttgcta ttgca 235

<210> 974

<211> 162

<212> DNA

<213> Homo sapiens

<400> 974

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taagaaattg ccatttgaaa caatccattt tgtaactgaa ccttatgaaa tatatgtatt 120

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<210> 975

<211> 249

<212> DNA

<213> Homo sapiens

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gtttgttttc catgtcatta cccccagggg ataccgaatg tgtgggtaga aatttctctg 120

tagattaaaa atcagatttt tacatggatt caacaaagga gcgtcacttg gatttttgtt 180

ttcatccatg aatgtagctg cttctgtgta aaatgccatt ttgctattaa aaatcaattc 240

acgctggaa 249