

SEQUENCE LISTING

<110> Kymab Limited

<120> Synthetically -Extended & Ethnically-Diverse Superhuman Immunoglobulin Gene Repertoires

<130> 25077.15

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<170> PatentIn version 3.5

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tcctgtgcag cctctggatt caccttcagt agctatgcta tgcactgggt ccgccaggct
120

ccaggggaagg gactggaata tgtttcagct attagtagta atgggggtag cacatattat
180

gcaaactctg tgaagggcag attcaccatc tccagagaca attccaagaa cacgctgtat
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296

<210> 45
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<213> homo sapiens;

<400> 45
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120

ccaggggaagg ggctggagtg ggtctcagtt atttatagcg gtggtagcac atactacgca
180

gactccgtga agggcagatt caccatctcc agagacaatt ccaagaacac gctgtatctt

240

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293

<210> 46
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<212> DNA
<213> homo sapiens;

<400> 46
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120

ccagggaagg ggctggagtg ggttggccgt actagaaaca aagctaacag ttacaccaca
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gaatacgccg cgtctgtgaa aggcagattc accatctcaa gagatgattc aaagaactca
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302

<210> 47
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<212> DNA
<213> homo sapiens;

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120

tccgggaaag ggctggagtg ggttggccgt attagaagca aagctaacag ttacgcgaca
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gcatatgctg cgtcggtgaa aggcagggtc accatctcca gagatgattc aaagaacacg
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gcgtatctgc aaatgaacag cctgaaaacc gaggacacgg ccgtgtatta ctgtactaga
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302

<210> 48
<211> 296
<212> DNA
<213> homo sapiens;

<400> 48
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120

ccagggaagg ggctgggtgtg ggtctcacgt attaatagtg atggggagtag cacaagctac
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gcgggactccg tgaagggccg attcaccatc tccagagaca acgccaagaa cacgctgtat
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ctgcaaatga acagtctgag agccgaggac acggctgtgt attactgtgc aagaga
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<211> 288
<212> DNA
<213> homo sapiens;

<400> 49
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ccagggaagg gtctggagtg ggtctcatcc attagtgggt gtagcacata ctacgcagac
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tccaggaagg gcagattcac catctccaga gacaattcca agaacacgct gcatcttcaa
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288

<210> 50
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<212> DNA
<213> homo sapiens;

<400> 50
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120

ccagggaagg ggctggagtg ggtctcatcc attagtagta gtagtaccat atactacgca
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gactctgtga agggccgatt caccatctcc agagacaacg ccaagaactc actgtatctg
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caaatgaaca gcctgagagc cgaggacacg gctgtgtatt actgtgcgag aga
293

<210> 51
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<212> DNA
<213> homo sapiens;

<400> 51
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120

cccccagga aggggctgga gtggattggg gaaatctatc atagtgggag caccaactac
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aacccgtccc tcaagagtcg agtcaccata tcagtagaca agtccaagaa ccagttctcc
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296

<210> 52
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<213> homo sapiens;

<400> 52
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120

cccccagga agggactgga gtggattggg tacatctatt atagtgggag cacctactac
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aacccgtccc tcaagagtcg agtcaccatg tcagtagaca cgtccaagaa ccagttctcc
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ctgaagctga gctctgtgac cgccgtggac acggccgtgt attactgtgc gagaaa
296

<210> 53
<211> 299
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120

cagccaccag ggaagggcct ggagtggatt gggtagatct atcatagtgg gagcacctac
180

tacaaccgt ccctcaagag tcgagtcacc atatcagtag acaggtccaa gaaccagttc
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299

<210> 54
<211> 299
<212> DNA
<213> homo sapiens;

<400> 54
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120

cagccccag ggaagggcct ggagtggatt gggtagatct attacagtgg gagcacctac
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tacaaccgt ccctcaagag tcgagttacc atatcagtag acacgtccaa gaaccagttc
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299

<210> 55
<211> 299
<212> DNA
<213> homo sapiens;

<400> 55

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120

cagcaccag ggaagggcct ggagtggatt gggtagatct attacagtgg gagcacctac
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tacaaccgt ccctcaagag tctagttacc atatcagtag acacgtctaa gaaccagttc
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299

<210> 56
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<212> DNA
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<400> 56
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120

ccaggggaagg ggctggagtg gattggggaa atcaatcata gtggaagcac caactacaac
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ccgtccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccctg
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293

<210> 57
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<212> DNA
<213> homo sapiens;

<400> 57
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120

cagccccag ggaaggggct ggagtggatt gggagtatct attatagtgg gagcacctac
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tacaaccgt ccctcaagag tcgagtcacc atatccgtag acacgtccaa gaaccagttc

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299

<210> 58
<211> 296
<212> DNA
<213> homo sapiens;

<400> 58
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120

ccccagggga aggggctgga gtggattggg gaaatccatc atagtgggag cacctactac
180

aacccgtccc tcaagagtcg aatcaccatg tccgtagaca cgtccaagaa ccagttctac
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296

<210> 59
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<400> 59
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acctgcactg tctctggtgg ctccatcagt agttactact ggagctggat ccggcagccc
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ccagggaagg gactggagtg gattgggtat atctattaca gtgggagcac caactacaac
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ccctccctca agagtcgagt caccatatca gtagacacgt ccaagaacca gttctccctg
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aagctgagct ctgtgaccgc tgcggacacg gccgtgtatt actgtgcgag aga
293

<210> 60
<211> 299
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120

cagccccag ggaagggact ggagtggatt gggatatctt attacagtgg gagcaccaac
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tacaaccctt ccctcaagag tcgagtcacc atatcagtag acacgtccaa gaaccagttc
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tccctgaagc tgagctctgt gaccgctgcg gacacggccg tgtattactg tgcgagaga
299

<210> 61
<211> 294
<212> DNA
<213> homo sapiens;

<400> 61
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120

ccccagggg aggggctgga gtggattggg agtatctatc atagtgggag cacctactac
180

aaccctgtcc tcaagagtcg agtcaccata tcagtagaca cgtccaagaa ccagttctcc
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ctgaagctga gctctgtgac cgccgcagac acggccgtgt attactgtgc gaga
294

<210> 62
<211> 296
<212> DNA
<213> homo sapiens;

<400> 62
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tcctgtaagg gttctggata cagctttacc agctactgga tcggctgggt gcgccagatg
120

cccgggaaag gcctggagtg gatggggatc atctatcctg gtgactctga taccagatac
180

agcccgctct tccaaggcca ggtcaccatc tcagccgaca agtccatcag caccgcctac
240

ctgcagtgga gcagcctgaa ggcctcggac accgccatgt attactgtgc gagaca
296

<210> 63
<211> 294
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<213> homo sapiens;

<400> 63
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tcctgtaagg gttctggata cagctttacc agctactgga tcagctgggt gcgccagatg
120

cccgggaaag gcctggagtg gatggggagg attgatccta gtgactctta taccaactac
180

agcccgctct tccaaggcca cgtcaccatc tcagctgaca agtccatcag cactgcctac
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ctgcagtgga gcagcctgaa ggcctcggac accgccatgt attactgtgc gaga
294

<210> 64
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<212> DNA
<213> homo sapiens;

<400> 64
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acctgtgcca tctccgggga cagtgtctct agcaacagtg ctgcttgga ctggatcagg
120

cagtcccat cgagaggcct tgagtggctg ggaaggacat actacaggtc caagtggat
180

aatgattatg cagtatctgt gaaaagtcga ataaccatca acccagacac atccaagaac
240

cagttctccc tgcagctgaa ctctgtgact cccgaggaca cggctgtgta ttactgtgca
300

agaga
305

<210> 65
<211> 294
<212> DNA
<213> homo sapiens;

<400> 65
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tcctgcaagg cttctggata caccttcact agctatgcta tgaattgggt gcgacaggcc
120

cctggacaag ggcttgagtg gatgggatgg atcaacacca acactgggaa cccaacgtat
180

gccagggct tcacaggacg gtttgtcttc tccttgga cctctgtcag cacggcatat
240

ctgcagatct gcagcctaaa ggctgaggac actgccgtgt attactgtgc gaga
294

<210> 66
<211> 296
<212> DNA
<213> homo sapiens;

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120

cctggacaag ggcttgagtg gatgggatgg ttcaacacct acactgggaa cccaacatat
180

gccagggct tcacaggacg gtttgtcttc tccatggaca cctctgccag cacagcatac
240

ctgcagatca gcagcctaaa ggctgaggac atggccatgt attactgtgc gagata
296

<210> 67
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17

<210> 68
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<400> 68
ggtataactg gaactac
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<210> 69
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<212> DNA
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<400> 69
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<210> 70
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<213> homo sapiens;

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<210> 71
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<213> homo sapiens;

<400> 71
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<210> 72
<211> 31
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<213> homo sapiens;

<400> 72
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<210> 73
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<213> homo sapiens;

<400> 73
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31

<210> 74
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<213> homo sapiens;

<400> 74
aggatattgt agtggtggtg gctgctactc c
31

<210> 75
<211> 28
<212> DNA
<213> homo sapiens;

<400> 75
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28

<210> 76
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<400> 76
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31

<210> 77
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<213> homo sapiens;

<400> 77
gtattacgat attttgactg gttattataa c
31

<210> 78
<211> 31
<212> DNA
<213> homo sapiens;

<400> 78
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31

<210> 79
<211> 37
<212> DNA
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<400> 79
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37

<210> 80
<211> 31
<212> DNA
<213> homo sapiens;

<400> 80
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31

<210> 81
<211> 16
<212> DNA
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<400> 81
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<210> 82
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<213> homo sapiens;

<400> 82
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<210> 83
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<400> 83
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<210> 84

<211> 19
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<210> 85
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<213> homo sapiens;

<400> 85
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<210> 86
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<213> homo sapiens;

<400> 86
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<210> 87
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<213> homo sapiens;

<400> 87
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<210> 88
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<213> homo sapiens;

<400> 88
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<210> 89
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18

<210> 90
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<212> DNA
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<210> 91
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<400> 91
gggtatagca gtggctggta c
21

<210> 92
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<400> 92
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<210> 93
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<213> homo sapiens;

<400> 93
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<210> 94
<211> 52
<212> DNA
<213> homo sapiens;

<400> 94
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52

<210> 95
<211> 53
<212> DNA
<213> homo sapiens;

<400> 95
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53

<210> 96
<211> 50
<212> DNA
<213> homo sapiens;

<400> 96
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50

<210> 97
<211> 48
<212> DNA
<213> homo sapiens;

<400> 97
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48

<210> 98
<211> 51
<212> DNA
<213> homo sapiens;

<400> 98
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51

<210> 99
<211> 63
<212> DNA
<213> homo sapiens;

<400> 99
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cag
63

<210> 100
<211> 287
<212> DNA
<213> homo sapiens;

<400> 100
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120

gggaaagccc ctaagctcct gatctatgat gcctccagtt tggaaagtgg ggtcccatca
180

aggttcagcg gcagtggatc tgggacagaa ttactctca ccatcagcag cctgcagcct
240

gatgattttg caacttatta ctgccaacag tataatagtt attctcc
287

<210> 101
<211> 287
<212> DNA
<213> homo sapiens;

<400> 101
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atcacttgcc gggcaagtca gggcattaga aatgatttag gctgggtatca gcagaaacca
120

gggaaagccc ctaagctcct gatctatgct gcatccagtt tacaaagtgg ggtcccatca
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aggttcagcg gcagtggatc tggcacagat ttactctca ccatcagcag cctgcagcct
240

gaagattttg caacttatta ctgtctacaa gattacaatt accctcc
287

<210> 102
<211> 287
<212> DNA
<213> homo sapiens;

<400> 102
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atcacttgtc gggcgagtca ggggtattagc agttatttag cctgggtatca gcaaaaacca

120

gggaaagccc ctaagctcct gatctatgct gcatccactt tgcaaagtgg ggtcccatca
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aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagctg cctgcagtct
240

gaagattttg caacttatta ctgtcaacag tattatagtt accctcc
287

<210> 103

<211> 287

<212> DNA

<213> homo sapiens;

<400> 103

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120

gggaaagccc ctgagctcct gatctatgct gcatccactt tgcaaagtgg ggtcccatca
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aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagttg cctgcagtct
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287

<210> 104

<211> 287

<212> DNA

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<400> 104

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120

gggaaagccc ctaagctcct gatctatgct gcatccactt tgcaaagtgg ggtcccatca
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aggttcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct
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287

<210> 105
<211> 287
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<400> 105
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atcacttgtc gggcgagtca gggatttagc agctggtag cctggatatca gcagaaacca
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gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca
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aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct
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gaagattttg caacttacta ttgtcaacag gctaacagtt tccctcc
287

<210> 106
<211> 287
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<400> 106
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120

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180

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120

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aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct
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<211> 287

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<400> 108

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120

gagaaagccc ctaagtcctt gatctatgct gcatccagtt tgcaaagtgg ggtcccatca
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aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct
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<400> 109

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aggttcagcg gcagtggatc tgggacagaa ttcactctca caatcagcag cctgcagcct
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<211> 287
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cggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct
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<400> 112

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aggttcagtg gaagtggatc tgggacagat tttactttca ccatcagcag cctgcagcct
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<211> 287

<212> DNA

<213> homo sapiens;

<400> 113

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gggaaagccc ctaagctcct gatctacgat gcatccaatt tggaaacagg ggtcccatca
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aggttcagtg gaagtggatc tgggacagat tttactttca ccatcagcag cctgcagcct
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<211> 287

<212> DNA

<213> homo sapiens;

<400> 114

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120

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cggttcagtg gcagtggatc tgggacagat ttcactctca ctatcagcag cctgcagcct

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287

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gggaaagttc ctaagctcct gatctatagt gcatccaatt tgcaatctgg agtcccatct
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cggttcagtg gcagtggatc tgggacagat ttcactctca ctatcagcag cctgcagcct
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<211> 287
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aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct
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287

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<211> 287
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<213> homo sapiens;

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gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca
180

aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct
240

gaagattttg caacttacta ctgtcaacag agttacagta cccctcc
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<210> 118

<211> 287

<212> DNA

<213> homo sapiens;

<400> 118

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120

gggaaatccc ctaagctctt cctctatgat gcaaaagatt tgcaccctgg ggtctcatcg
180

aggttcagtg gcaggggatc tgggacggat ttcactctca ccatcatcag cctgaagcct
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gaagattttg cagcttatta ctgtaaacag gacttcagtt accctcc
287

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<211> 287

<212> DNA

<213> homo sapiens;

<400> 119

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120

gcaaaagccc ctaagctctt catctattat gcatccagtt tgcaaagtgg ggtcccatca
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aggttcagcg gcagtggatc tgggacggat tacactctca ccatcagcag cctgcagcct
240

gaagattttg caacttatta ctgtcaacag tattatagta cccctcc
287

<210> 120
<211> 302
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<213> homo sapiens;

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cttcagcaga ggccaggcca gcctccaaga ctcctaattt ataagatttc taaccggttc
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tctgggggtcc cagacagatt cagtggcagt ggggcaggga cagatttcac actgaaaatc
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ca
302

<210> 121
<211> 302
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atctccttca ggtctagtca aagcctcgta cacagtgatg gaaacaccta cttgagttgg
120

cttcagcaga ggccaggcca gcctccaaga ctcctaattt ataaggtttc taaccggttc
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tctgggggtcc cagacagatt cagtggcagt ggggcaggga cagatttcac actgaaaatc
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180

tccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagattttac actgaaaatc
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agcagagtgg aggctgagga tgttgggggt tattactgca tgcaagctct acaaactcct
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<210> 123
<211> 302
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tacctgcaga agccagggca gtctccacag ctctgatct atttgggttc taatcgggcc
180

tccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagattttac actgaaaatc
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agcagagtgg aggctgagga tgttgggggt tattactgca tgcaagctct acaaactcct
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<211> 302
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<400> 124
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120

tacctgcaga agccaggcca gtctccacag ctctgatct atgaagtttc cagccggttc
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tctggagtgc cagatagggt cagtggcagc gggtcaggga cagatttcac actgaaaatc
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cc
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<210> 125
<211> 302
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120

tacctgcaga agccaggcca gcctccacag ctctgatct atgaagtttc caaccggttc
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tctggagtgc cagatagggt cagtggcagc gggtcaggga cagatttcac actgaaaatc
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cc
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<210> 126
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<400> 126

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tttcagcaga ggccaggcca atctccaagg cgcctaattt ataaggtttc taaccgggac
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tctgggggtcc cagacagatt cagcggcagt gggtcaggca ctgatttcac actgaaaatc
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cc
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<211> 302

<212> DNA

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<400> 127

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120

tttcagcaga ggccaggcca atctccaagg cgcctaattt ataaggtttc taactgggac
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tctgggggtcc cagacagatt cagcggcagt gggtcaggca ctgatttcac actgaaaatc
240

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cc
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<210> 128

<211> 305

<212> DNA

<213> homo sapiens;

<400> 128

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tggtacctgc agaagccagg gcagtctcca cagctcctga tctatacgct ttcctatcgg
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gcctctggag tcccagacag gttcagtggc agtgggtcag gcactgattt cacactgaaa
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120

tggtacctgc agaagccagg gcagtctcca cagctcctga tctatacgct ttcctatcgg
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gcctctggag tcccagacag gttcagtggc agtgggtcag gcactgattt cacactgaaa
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ccttc
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<211> 290
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ctctcctgca gggccagtca gagtgttagc agcagctact taacctggta tcagcagaaa
120

cctggccagg cgcccaggct cctcatctat ggtgcatcca ccagggccac tagcatccca
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gccaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagcctgcag
240

cctgaagatt ttgcagttta ttactgtcag caggatcata acttacctcc
290

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<213> homo sapiens;

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ctctcctgca gggccagtca gagtgttagc agcagctact taacctggta tcagcagaaa
120

cctggccagg cgcccaggct cctcatctat ggtgcatcca ccagggccac tagcatccca
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gccaggttca gtggcagtgg gtctgggaga gacttcactc tcaccatcag cagcctgcag
240

cctgaagatt ttgcagttta ttactgtcag caggatcata acttacctcc
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<213> homo sapiens;

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cctgggcagg ctcccaggct cctcatctat ggtgcatcca ccagggccac tggcatccca
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gccaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagcctgcag
240

cctgaagatt ttgcagttta ttactgtcag caggattata acttacctcc
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<211> 287
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<213> homo sapiens;

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ctctcctgca gggccagtca gagggttagc agctacttag cctggtacca acagaaacct
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ggccaggctc ccaggctcct catctatgat gcatccaaca gggccactgg catcccagcc
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aggttcagtg gcagtgggtc tgggacagac ttactctca ccatcagcag cctagagcct
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gaagattttg cagtttatta ctgtcagcag cgtagcaact ggcctcc
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aggttcagtg gcagtgggcc tgggacagac ttactctca ccatcagcag cctagagcct
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287

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<211> 287
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ggccaggctc ccaggctcct catctatggt gcatccacca gggccactgg tatcccagcc
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aggttcagtg gcagtgggtc tgggacagag ttcactctca ccatcagcag cctgcagtct
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gaagattttg cagtttatta ctgtcagcag tataataact ggcctcc
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<211> 287

<212> DNA

<213> homo sapiens;

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120

ggccaggctc ccaggctcct catctatggt gcatccacca gggccactgg catcccagcc
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aggttcagtg gcagtgggtc tgggacagag ttcactctca ccatcagcag cctgcagtct
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<211> 290

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<400> 137

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cctggccagg ctcccaggct cctcatctat ggtgcatcca gcagggccac tggcatccca
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gacaggttca gtggcagtgg gtctgggaca gatttcactc tcaccatcag cagactggag
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cctggcctgg cgcccaggct cctcatctat gatgcatcca gcagggccac tggcatccca
180

gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag
240

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<213> homo sapiens;

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tggtaccagc agaaaccagg acagcctcct aagctgctca tttactgggc atctacccgg
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gaatccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc
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atcagcagcc tgcaggctga agatgtggca gtttattact gtcagcaata ttatagtact
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ggagaagctg ctattttcat tattcaagaa gctactactc tcgttcctgg aatcccacct
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cgattcagtg gcagcgggta tggaacagat tttaccctca caattaataa catagaatct
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<211> 287

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120

gatcagtctc caaagctcct catcaagtat gcttcccagt ctttctcagg ggtcccctcg
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aggttcagtg gcagtggatc tgggacagat ttcaccctca ccatcaatag cctggaagct
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<210> 142

<211> 287

<212> DNA

<213> homo sapiens;

<400> 142

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gatcagtctc caaagctcct catcaagtat gcttcccagt ctttctcagg ggtcccctcg
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240

gaagatgctg caacgtatta ctgtcatcag agtagtagtt tacctca
287

<210> 143
<211> 287
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<213> homo sapiens;

<400> 143
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atcacctgcc aggccagtga aggcattggc aactacttat actggtacca gcagaaacca
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gatcaagccc caaagctcct catcaagtat gcttcccagt ccatctcagg ggtccccctgc
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aggttcagtgc gcagtggatc tgggacagat ttcaccttta ccatcagtag cctggaagct
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gaagatgctg caacatatta ctgtcagcag ggcaataagc accctca
287

<210> 144
<211> 296
<212> DNA
<213> homo sapiens;

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120

ccaggaaagg ctcccaaact cctcatctat tatgatgac tgctgccctc aggggtctct
180

gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tgggctccag
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<400> 145

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120

cttccaggaa cagcccccaa actcctcatc tatggtaaca gcaatcggcc ctcaggggtc
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cctgaccgat tctctggctc caagtctggc acctcagcct ccctggccat cactgggctc
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<211> 296

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<211> 296

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gaccgattct ctggctccaa gtctggcacg tcagccaccc tgggcatcac cggactccag
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caccaggca aagcccccaa actcatgatt tatgagggtca gtaagcggcc ctgaggggtc
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<211> 297

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cccccaggca cagcccccaa actcatgatt tatgagggtca gtaatcggcc ctcaggggtc
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cagtcccctg tgctgggtcat ctatcaagat agcaagcggc cctcagggat ccctgagcga
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<211> 290

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<400> 158

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caggcccctg tgctgggtcat ctatgaggac agcaaacgac cctccgggat ccctgagaga
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ttctctggct ccagctcagg gacaatggcc accttgacta tcagtggggc ccagggtggag
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<211> 290

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caggaccctg tgctgggtcat ctatagcgat agcaaccggc cctcagggat ccctgagcga
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<211> 284

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<211> 290

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<213> homo sapiens;

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<211> 297

<212> DNA

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<211> 312

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aagccaggga gtcctcccca gtatctcctg aggtacaaat cagactcaga taagcagcag
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cctgatcgct tctctggctc catccttggg aacaaagctg ccctcaccat cacggggggc
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<211> 317

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120

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120

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gaccgattct ctggctccaa gtctggcacg tcagccaccc tgggcatcac cggactccag
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ggacctgggg tccccagtcg agtctctggc tccaaggaga cctcaagtaa cacagcgttt
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<211> 297
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120

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tctaatacgt tctctgggtc caagtctggc aacacggcct ccctgacat ctctgggtc
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120

cagtcccctg tgctgggtcat ctatcaagat agcaagcggc cctcagggat ccctgagcga
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ttctctggct ccaactctgg gaacacagcc actctgacca tcagcgggac ccaggctatg
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<211> 290

<212> DNA

<213> homo sapiens;

<400> 205

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120

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<211> 290

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caggccccctg tgctgggtcat ctattatgat agcgaccggc cctcagggat ccctgagcga
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gatgaggccg actattactg tcagggtgtgg gacagtagta gtgatcatcc
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<211> 312

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<211> 294
<212> DNA
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120

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cctgcccggc tctcaggctc cctccttggg ggcaaagctg ccctgaccct ttcgggtgcg
240

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294

<210> 216
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<210> 217

<211> 1134

<212> DNA

<213> homo sapiens;

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<400> 217

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240

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420

tgcccacggt gccagagcc caaatcttgt gacacacctc ccccggtgcc aagggtgccc
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gcacctgaac tcctgggagg accgtcagtc ttctcttcc ccccaaaacc caaggatacc
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<212> DNA

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<400> 218

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<212> DNA

<213> homo sapiens;

<400> 219

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tggaactcag gcgctctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca
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gtggtgtgtg acgtgagcca cgaagacccc gaggtccagt tcaactggta cgtggacggc
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<211> 1287

<212> DNA

<213> homo sapiens;

<400> 220

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120

gtgacctggg acacaggctc cctcaacggg acaactatga ccttaccagc caccaccctc
180

acgctctctg gtcactatgc caccatcagc ttgctgaccg tctcgggtgc gtgggccaag
240

cagatgttca cctgccgtgt ggcacacact ccatcgtcca cagactgggt cgacaacaaa
300

accttcagcg tctgctccag ggacttcacc cgcgccaccg tgaagatctt acagtcgtcc
360

tgcgacggcg gcgggcactt ccccccgacc atccagctcc tgtgcctcgt ctctgggtac
420

accccaggga ctatcaacat cacctggctg gaggacgggc aggtcatgga cgtggacttg
480

tccaccgcct ctaccacgca ggagggtgag ctggcctcca cacaaagcga gctcaccctc
540

agccagaagc actggctgtc agaccgcacc tacacctgcc aggtcaccta tcaaggtcac
600

acctttgagg acagcaccaa gaagtgtgca gattccaacc cgagaggggt gagcgcctac
660

ctaagccggc ccagcccgtt cgacctgttc atccgcaagt cgcccacgat cacctgtctg
720

gtggtggacc tggcacccag caaggggacc gtgaacctga cctgggtccc ggccagtggg
780

aagcctgtga accactccac cagaaaggag gagaagcagc gcaatggcac gttaaccgtc
840

acgtccacc tgccggtggg cacccgagac tggatcgagg gggagacctt ccagtgcagg
900

gtgaccacc cccacctgcc cagggccctc atgcggtcca cgaccaagac cagcggcccc
960

cgtgctgccc cggaagtcta tgcgtttgcg acgccggagt ggccggggag ccgggacaag
1020

cgcaccctcg cctgcctgat ccagaacttc atgcctgagg acatctcggt gcagtggctg
1080

cacaacgagg tgcagctccc ggacgcccgg cacagcacga cgcagccccg caagaccaag
1140

ggctccggct tcttcgtctt cagccgcctg gaggtgacca gggccgaatg ggagcagaaa
1200

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1260

gcggtgtctg taaatcccgg taaatga
1287

<210> 221
<211> 30
<212> DNA
<213> homo sapiens;

<400> 221
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30

<210> 222
<211> 1062
<212> DNA
<213> homo sapiens;

<400> 222
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aacgtggtca tcgcctgcct ggtccagggc ttcttccccc aggagccact cagtgtgacc
120

tggagcgaaa gcggacaggg cgtgaccgcc agaaacttcc caccagcca ggatgcctcc
180

ggggacctgt acaccacgag cagccagctg accctgccgg ccacacagtg cctagccggc
240

aagtccgtga catgccacgt gaagcactac acgaatccca gccaggatgt gactgtgccc
300

tgcccagttc cctcaactcc acctaccca tctccctcaa ctccacctac cccatctccc
360

tcattgctgcc acccccgact gtcactgcac cgaccggccc tcgaggacct gctcttaggt
420

tcagaagcga acctcacgtg cacactgacc ggccctgagag atgcctcagg tgtcaccttc
480

acctggacgc cctcaagtgg gaagagcgct gttcaaggac cacctgagcg tgacctctgt
540

ggctgctaca gcgtgtccag tgtcctgccg ggctgtgccg agccatggaa ccatgggaag
600

accttcactt gcactgctgc ctaccccgag tccaagaccc cgctaaccgc caccctctca

660

aaatccggaa acacattccg gcccgaggtc cacctgctgc cgccgccgtc ggaggagctg
720

gccctgaacg agctggtgac gctgacgtgc ctggcacgcg gcttcagccc caaggatgtg
780

ctggttcgct ggctgcaggg gtcacaggag ctgccccgcg agaagtacct gacttgggca
840

tcccggcagg agcccagcca gggcaccacc accttcgctg tgaccagcat actgcgcgtg
900

gcagccgagg actggaagaa gggggacacc ttctcctgca tgggtgggcca cgaggccctg
960

ccgctggcct tcacacagaa gaccatcgac cgcttggcgg gtaaaccac ccatgtcaat
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1062

<210> 223

<211> 888

<212> DNA

<213> homo sapiens;

<400> 223

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120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca
180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg caccagacc
240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc
300

aaatcttgtg aaaaaactca cacatgcca ccgtgcccag cacctgaact cctgggggga
360

ccgtcagtct tcctcttccc cccaaaacc aaggacacc tcatgatctc ccggaccctt
420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg
480

tacgtggacg gcgtggagta caagtgcaag gtctccaaca aagccctccc agcccccatc
540

gagaaaacca tctccaaagc caaagggcag ccccgagaac cacagggtga caccctgccc
600

ccatcccggg atgagctgac caagaaccag gtcagcctga cctgcctggg caaaggcttc
660

tatcccagcg acatcgccgt ggagtgggag agcaatgggc agccggagaa caactacaag
720

accacgcctc ccgtgctgga ctccgacggc tccttcttcc tctacagcaa gtcaccctg
780

gacaagagca ggtggcagca ggggaacgtc ttctcatgct ccgtgatgca tgaggctctg
840

cacaaccact acacacagaa gagcctctcc ctgtctccgg gtaaataga
888

<210> 224

<211> 993

<212> DNA

<213> homo sapiens;

<400> 224

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ggcacagcag ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacgggtgtcg
120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca
180

ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc
240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc
300

aaatcttgtg aaaaaactca cacatgcca ccgtgcccag cacctgaact cctgggggga
360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt
420

gaggtcacat gcgtgggtggg ggacgtgagc cacgaagacc ctgagggtcaa gttcaactgg
480

tacgtggacg gcgtggagggt gcataatgcc aagacaaagc cgcggggagga gcagtacaac
540

agcacgtacc gtgtggtcag cgtcctcacc gtctctgcacc aggactggct gaatggcaag
600

gagtacaagt gcaagggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc
660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggatgag
720

ctgaccaaga accaggtcag cctgacctgc ctgggtcaaag gcttctatcc cagcgacatc
780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg
840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcagggtg
900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacaca
960

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993

<210> 225

<211> 1362

<212> DNA

<213> homo sapiens;

<400> 225

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acgagcagcg tggccgttgg ctgcctcgca caggacttcc ttcccgactc catcactttc
120

tccttgaaat acaagaacaa ctctgacatc agcagcaccg ggggcttccc atcagtcctg
180

agagggggca agtacgcagc cacctcacag gtgctgctgc cttccaagga cgtcatgcag
240

ggcacagacg aacacgtggt gtgcaaagtc cagcacccca acggcaacaa agaaaagaac
300

gtgcctcttc cagtgattgc cgagctgcct cccaaagtga gcgtcttcgt cccaccccg
360

gacggcttct tcggcaaccc ccgcaagtcc aagctcatct gccaggccac gggtttcagt
420

ccccggcaga ttcagggtgtc ctggctgctg gaggggaagc aggtgggggtc tggcgtcacc

480

acggaccagg tgcaggctga ggccaaagag tctgggcca cgacctaca ggtgaccagc
540

aactgacca tcaaagagag cgactggctc agccagagca tggtcacctg ccgctggat
600

cacaggggcc tgacctcca gcagaatgcg tcctccatgt gtggccccga tcaagacaca
660

gccatccggg tcttcgcat cccccatcc ttgcccagca tcttcctcac caagtccacc
720

aagttgacct gcctggtcac agacctgacc acctatgaca gcgtgacct ctcctggacc
780

cgccagaatg gcgaagctgt gaaaaccac accaacaatc ccgagagcca cccaatgcc
840

actttcagcg ccgtgggtga ggccagcatc tgcgaggatg actggaattc cggggagagg
900

ttcacgtgca ccgtgacca cacagacctg ccctcgccac tgaagcagac catctcccgg
960

cccaaggggg tggccctgca caggcccgat gtctacttgc tgccaccagc ccgggagcag
1020

ctgaacctgc gggagtcggc caccatcacg tgccctggta cgggcttctc tcccgcggac
1080

gtcttcgtgc agtggatgca gagggggcag cccttgctcc cggagaagta tgtgaccagc
1140

gccccaatgc ctgagcccca ggccccaggc cggctacttcg cccacagcat cctgaccgtg
1200

tccgaagagg aatggaacac gggggagacc tacacctgcg tgggtggcca tgaggccctg
1260

cccaacaggg tcaccgagag gaccgtggac aagtccaccg gtaaaccac cctgtacaac
1320

gtgtccctgg tcatgtccga cacagctggc acctgctact ga
1362

<210> 226

<211> 1200

<212> DNA

<213> homo sapiens;

<400> 226

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120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca
180

ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc
240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc
300

aaatcttgtg acaaaactca cacatgccca ccgtgccag cacctgaact cctgggggga
360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcattgatctc ccggaccctt
420

gaggtcacat gcgtgggtgtt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg
480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacaac
540

agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag
600

gagtacaagt gcaagggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc
660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgccccatc ccgggatgag
720

ctgaccaaga accaggtcag cctgacctgc ctgggtcaaag gcttctatcc cagcgacatc
780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg
840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg
900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacaca
960

cagaagagcc tctccctgtc tccggagctg caactggagg agagctgtgc ggaggcgag
1020

gacggggagc tggacgggct gtggacgacc atcaccatct tcattcacact cttcctgtta
1080

agcgtgtgct acagtgccac cgtcaccttc ttcaaggatga agtggatctt ctctcgggtg
1140

gtggacctga agcagaccat catccccgac tacaggaaca tgatcggaca gggggcctag
1200

<210> 227
<211> 1293
<212> DNA
<213> homo sapiens;

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 227
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aacagccctg tggtcctggc atgcttgata actgggtacc acccaacgtc cgtgactgtc
120

acctggtaca tggggacaca gagccagccc cagagaacct tccctgagat acaaagacgg
180

gacagctact acatgacaag cagccagctc tccaccccc tccagcagtg gcgccaaggc
240

gagtacaaat gcgtggtcca gcacaccgcc agcaagagta agaaggagat cttccgctgg
300

ccagagtctc caaaggcaca ggcctcctca gtgcccactg cacaacccca agcagagggc
360

agcctcgcca aggcaaccac agccccagcc accacccgta acacaggaag aggaggagaa
420

gagaagaaga aggagaagga gaaagaggaa caagaagaga gagagacaaa gacaccagag
480

tgtccgagcc acaccagcc tcttggcgtc tacctgctaa cccctgcagt gcaggacctg
540

tggctccggg acaaagccac cttcacctgc ttcgtggtgg gcagtgacct gaaggatgct
600

cacctgacct gggagggtggc cgggaagggtc cccacagggg gcgtggagga agggctgctg
660

gagcggcaca gcaacggctc ccagagccag cacagccgtc tgaccctgcc caggtccttg
720

tggaacgcgg ggacctccgt cacctgcaca ctgaaccatc ccagcctccc accccagagg
780

ttgatggcgc tgagagaacc cgctgcgcag gcacccgtca agctttccct gaacctgctg
840

gcctcgtctg accctcccga ggcggcctcg tggctcctgt gtgaggtgtc tggcttctcg
900

ccccccaaca tcctcctgat gtggctggag gaccagcgtg aggtgaacac ttctgggttt
960

gccccgcac gccccctcc acagcccggg agcaccacgt tctgggcctg gagtgtgctg
1020

cgtgtcccag ccccgcccag ccctcagcca gccacctaca cgtgtgtggt cagccacgag
1080

gactcccgga ctctgctcaa cgccagccgg agcctagaag tcagctacct ggccatgacc
1140

cccctgatcc ctacagagcaa ggatgagaac agcgatgact acacgacctt tgatgatgtg
1200

ggcagcctgt ggaccgccct gtccacgttt gtggccctct tcatcctcac cctcctctac
1260

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1293

<210> 228
<211> 984
<212> DNA
<213> homo sapiens;

<400> 228
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agcacagccg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg
120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca
180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacgaagacc
240

tacacctgca acgtagatca caagcccagc aacaccaagg tggacaagag agttgagtcc
300

aaatatggtc ccccatgccc atcatgccca gcacctgagt tcctgggggg accatcagtc

360

ttcctgttcc ccccaaaacc caaggacact ctcatgatct cccggacccc tgaggtcacg
420

tgcgtggtgg tggacgtgag ccaggaagac cccgaggtcc agttcaactg gtacgtggat
480

ggcgtggagg tgcataatgc caagacaaag ccgcgggagg agcagttcaa cagcacgtac
540

cgtgtggtca gcgtcctcac cgtcctgcac caggactggc tgaacggcaa ggagtacaag
600

tgaagggtct ccaacaaagg cctcccgtcc tccatcgaga aaaccatctc caaagccaaa
660

gggcagcccc gagagccaca ggtgtacacc ctgcccccat cccaggagga gatgaccaag
720

aaccaggtca gcctgacctg cctggtcaaa ggcttctacc ccagcgacat cgccgtggag
780

tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccgt gctggactcc
840

gacggctcct tcttcctcta cagcaggctc accgtggaca agagcaggtg gcaggagggg
900

aatgtcttct catgctccgt gatgcatgag gctctgcaca accactacac acagaagagc
960

ctctccctgt ctctgggtaa atga
984

<210> 229

<211> 228

<212> DNA

<213> homo sapiens;

<400> 229

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120

gtgtctgtaa atccccagct ggacgtgtgc gtggaggagg ccgagggcga ggcgccgtgg
180

acgtggaccg gcctctgcat cttcgccgca ctcttcctgc tcagcgtg
228

<210> 230
<211> 324
<212> DNA
<213> homo sapiens;

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 230
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ggaactgcct ctgttggtg cctgctgaat aacttctatc ccagagaggc caaagtacag
120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac
180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag
240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag
300

agcttcaaca ggggagagtg ttag
324

<210> 231
<211> 321
<212> DNA
<213> homo sapiens;

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 231
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gccacaagg ccacactggt gtgtctcata agtgacttct acccgggagc cgtgacagtg
120

gcctggaagg cagatagcag ccccgtaag gcgggagtgg agaccaccac accctccaaa
180

caaagcaaca acaagtacgc ggccagcagc tatctgagcc tgacgcctga gcagtggaag

240

tccacacagaa gctacagctg ccagggtcacg catgaaggga gcaccgtgga gaagacagtg
300

gcccctacag aatgttcata g
321

<210> 232
<211> 321
<212> DNA
<213> homo sapiens;

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 232
ngtcagccca aggccaaccc cactgtcact ctgttcccg cctcctctga ggagctccaa
60

gccaacaagg ccacactagt gtgtctgatc agtgacttct acccgggagc tgtgacagtg
120

gcctggaagg cagatggcag ccccgtaag gcgggagtgg agaccaccaa accctccaaa
180

cagagcaaca acaagtacgc ggccagcagc tacctgagcc tgacgcccga gcagtggaag
240

tccacacagaa gctacagctg ccagggtcacg catgaaggga gcaccgtgga gaagacagtg
300

gcccctacag aatgttcata g
321

<210> 233
<211> 321
<212> DNA
<213> homo sapiens;

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 233
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gccaacaagg ccacactggt gtgtctcata agtgacttct acccgggagc cgtgacagtg
120

gcctggaagg cagatagcag ccccgtaag gcgggagtgg agaccaccac accctccaaa
180

caaagcaaca acaagtacgc ggccagcagc tacctgagcc tgacgcctga gcagtggaag
240

tcccacagaa gctacagctg ccaggtcacg catgaaggga gcaccgtgga gaagacagtg
300

gcccctacag aatgttcata g
321

<210> 234
<211> 321
<212> DNA
<213> homo sapiens;

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 234
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60

gccaacaagg ccacactggt gtgtctcgta agtgacttct acccgggagc cgtgacagtg
120

gcctggaagg cagatggcag ccccgtaag gtgggagtgg agaccaccaa accctccaaa
180

caaagcaaca acaagtatgc ggccagcagc tacctgagcc tgacgcccga gcagtggaag
240

tcccacagaa gctacagctg ccgggtcacg catgaaggga gcaccgtgga gaagacagtg
300

gcccctgcag aatgctctta g
321

<210> 235
<211> 61
<212> DNA
<213> homo sapiens;

<400> 235

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60

g
61

<210> 236
<211> 20
<212> PRT
<213> homo sapiens;

<400> 236

Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val
1 5 10 15

Thr Val Ser Ser
20

<210> 237
<211> 101
<212> DNA
<213> homo sapiens;

<400> 237
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60

ggacgtctgg ggccaaggga ccacgggtcac cgtctcctca g
101

<210> 238
<211> 38
<212> DNA
<213> homo sapiens;

<400> 238
ggtttttgtg gggtgaggat ggacattctg ccattgtg
38

<210> 239
<211> 52
<212> DNA
<213> homo sapiens;

<400> 239
gctgaatact tccagcactg gggccagggc accctgggtca ccgtctcctc ag
52

<210> 240
<211> 52
<212> DNA
<213> homo sapiens;

<400> 240
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52

<210> 241
<211> 49
<212> DNA
<213> homo sapiens;

<400> 241
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49

<210> 242
<211> 46
<212> DNA
<213> homo sapiens;

<400> 242
tacttttgact actggggcca gggaaccctg gtcaccgtct cctcag
46

<210> 243
<211> 49
<212> DNA
<213> homo sapiens;

<400> 243
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49

<210> 244
<211> 61
<212> DNA
<213> homo sapiens;

<400> 244
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61

<210> 245
<211> 494
<212> DNA
<213> homo sapiens;

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120

gtcccagggc tgagagagaa accaggccag tcatgtgaga cttcacccac tcctgtgtcc
180

tctccacagg tgcccactcc caggttcagc tgggtgcagtc tggagctgag gtgaagaagc
240

ctggggcctc agtgaaggtc tcctgcaagg cttctggtta cacctttacc agctatggta
300

tcagctgggt gcgacaggcc cctggacaag ggcttgagtg gatgggatgg atcagcgctt
360

acaatggtaa cacaaactat gcacagaagc tccagggcag agtcaccatg accacagaca
420

catccacgag cacagcctac atggagctga ggagcctgag atctgacgac acggccgtgt
480

attactgtgc gaga
494

<210> 246
<211> 500
<212> DNA
<213> homo sapiens;

<400> 246
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120

ccctagtccc agtgatgaga aagagattga gtccagtcca gggagatctc atccacttct
180

gtgtttcttc cacaggagcc cactcccagg tgcagctggt gcagtctggg gctgagggtga
240

agaagcctgg ggcctcagtg aaggctctct gcaaggcttc tggatacacc ttcaccggct
300

actatatgca ctgggtgcga caggcccctg gacaagggct tgagtggatg ggatggatca
360

accctaacag tgggtggcaca aactatgcac agaagtttca gggcagggtc accatgacca
420

gggacacgtc catcagcaca gcctacatgg agctgagcag gctgagatct gacgacacgg
480

ccgtgtatta ctgtgcgaga
500

<210> 247

<211> 496

<212> DNA

<213> homo sapiens;

<400> 247

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120

agttccaggg ctgatgaggg gactgggtcc agttaagtgg tgtctcatcc actcctctgt
180

cctctccaca ggcacccacg cccaggtcca gctggtacag tctggggctg aggtgaagaa
240

gcctggggcc tcagtgaagg tctcctgcaa ggtttccgga tacaccctca ctgaattatc
300

catgcactgg gtgcgacagg ctcttggaag agggcttgag tggatgggag gttttgatcc
360

tgaagatggt gaaacaatct acgcacagaa gttccagggc agagtcacca tgaccgagga
420

cacatctaca gacacagcct acatggagct gagcagcctg agatctgagg acacggccgt
480

gtattactgt gcaaca
496

<210> 248

<211> 478

<212> DNA

<213> homo sapiens;

<400> 248

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120

gggatcgaag ccagtcaagg gggcttccat ccactcctgt gtcttctcta caggtgtcca
180

ctcccagggt cagctgggtg agtctggggc tgagggtgaag aagcctgggg cctcagtgaa
240

ggtttcctgc aaggcttctg gatacacctt cactagctat gctatgcatt ggggtgcgcca
300

ggcccccgga caaaggcttg agtggatggg atggagcaac gctggcaatg gtaacacaaa
360

atattcacag gagttccagg gcagagtcac cattaccagg gacacatccg cgagcacagc
420

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478

<210> 249

<211> 494

<212> DNA

<213> homo sapiens;

<400> 249

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120

tccagtgat gaggagggga ttgagtccag tcaagggtggc ttttatccac tcctgtgtcc
180

cctccacaga tgcctactcc cagatgcagc tgggtgcagtc tggggctgag gtgaagaaga
240

ctgggtcctc agtgaagggt tcctgcaagg cttccggata caccttcacc taccgctacc
300

tgcactgggt gcgacaggcc cccggacaag cgcttgagtg gatgggatgg atcacacctt
360

tcaatggtaa caccaactac gcacagaaat tccaggacag agtcaccatt accagggaca
420

ggtctatgag cacagcctac atggagctga gcagcctgag atctgaggac acagccatgt
480

attactgtgc aaga
494

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<211> 740
<212> DNA
<213> homo sapiens;

<400> 250
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120

gatgggacat ctatcttctt tctcaacctc gatcaggctt tgaggatga aataatctgt
180

ctcatgaata tgcaaataac cttagatcta ctgaggtaaa tatggataca tctgggccct
240

gaaagcatca tccaacaacc acatcccttc tctacagaag cctctgagag gaaagttctt
300

caccatggac tggacctgga gggcttctg ctgctggct gtagctccag gtaaagggcc
360

aactggttcc agggctgagg aagggatctt ttccagtcta gaggactgtc attctctact
420

gtgtcctctc cgcagggtgct cactcccagg tgcagctggt gcagtctggg gctgagggtga
480

agaagcctgg ggcctcagtg aagggttctt gcaaggcatc tggatacacc ttcaccagct
540

actatatgca ctgggtgcga caggcccctg gacaagggct tgagtggatg ggaataatca
600

accctagtgg tggtagcaca agctacgcac agaagttcca gggcagagtc accatgacca
660

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720

ccgtgtatta ctgtgcgaga
740

<210> 251
<211> 497
<212> DNA

<213> homo sapiens;

<400> 251

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120

aagtcccagt gatgaggagg ggattgagtc cagtcaaggt ggctttcatc cactcctgtg
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ttctctccac aggtgcccac tcccaaattgc agctgggtgca gtctgggcct gaggtgaaga
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agcctgggac ctgagtgaag gtctcctgca aggccttctg attcaccttt actagctctg
300

ctatgcagtg ggtgcgacag gctcgtggac aacgccttga gtggatagga tggatcgctg
360

ttggcagtgg taacacaaac tacgcacaga agttccagga aagagtcacc attaccaggg
420

acatgtccac aagcacagcc tacatggagc tgagcagcct gagatccgag gacacggccc
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497

<210> 252

<211> 498

<212> DNA

<213> homo sapiens;

<400> 252

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120

tagtcctaag gctgaggaag ggatcctggt ttagttaag aggattttat tcacccctgt
180

gtcctctcca cagggtgtcca gtcccagggt cagctgggtgc agtctggggc tgagggtgaag
240

aagcctgggt cctcgggtgaa ggtctcctgc aaggcttctg gaggcacctt cagcagctat
300

gctatcagct ggggtgcgaca ggcccctgga caagggcttg agtggatggg agggatcatc
360

cctatctttg gtacagcaaa ctacgcacag aagttccagg gcagagtcac gattaccgcg
420

gacaaatcca cgagcacagc ctacatggag ctgagcagcc tgagatctga ggacacggcc
480

gtgtattact gtgcgaga
498

<210> 253
<211> 499
<212> DNA
<213> homo sapiens;

<400> 253
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120

ctagtctcaa agctgaggaa cggatcctgg ttcagtcaaa gaggatttta ttctctcctg
180

tgttctctcc acaggtgccc actcccaggt gcagctggtg cagtctgggg ctgaggtgaa
240

gaagcctggg gcctcagtga aggtctcctg caaggcttct ggatacacct tcaccagtta
300

tgatatcaac tgggtgcgac aggccactgg acaagggctt gagtggatgg gatggatgaa
360

ccctaacagt ggtaacacag gctatgcaca gaagttccag ggcagagtca ccatgaccag
420

gaacacctcc ataagcacag cctacatgga gctgagcagc ctgagatctg aggacacggc
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cgtgtattac tgtgcgaga
499

<210> 254
<211> 467
<212> DNA
<213> homo sapiens;

<400> 254
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120

ctttgtgggc ttcatcttct tatgtcttct ccacaggggt cttgtcccag gtcaccttga
180

aggagtctgg tcctgtgtg gtgaaacca cagagaccct cacgtgacc tgcaccgtct
240

ctgggttctc actcagcaat gctagaatgg gtgtgagctg gatccgtcag cccccagga
300

aggccctgga gtggcttgca cacatttttt cgaatgacga aaaatcctac agcacatctc
360

tgaagagcag gtcaccatc tccaaggaca cctccaaaag ccagggtggtc cttaccatga
420

ccaacatgga ccctgtggac acagccacat attactgtgc acggata
467

<210> 255

<211> 463

<212> DNA

<213> homo sapiens;

<400> 255

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120

gtgggcttca tcttcttatg ctttctccac aggggtcttg tcccagatca cttgaagga
180

gtctgttcct acgctggtga aaccacaca gaccctcacg ctgacctgca ctttctctgg
240

gttctcactc agcactagtg gagtgggtgt gggctggatc cgtcagcccc caggaaaggc
300

cctggagtgg cttgcactca tttattggaa tgatgataag cgctacagcc catctctgaa
360

gagcaggctc accatcacca aggacacctc caaaaaccag gtggtcctta caatgaccaa
420

catggaccct gtggacacag ccacatatta ctgtgcacac aga
463

<210> 256

<211> 519
<212> DNA
<213> homo sapiens;

<400> 256
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120

ctgtgagtgc tgtggtcagg tagtacttca gaagcaaaaa atctattctc tcctttgtgg
180

gcttcacatt cttatgtctt ctccacaggg gtcttatccc aggtcacctt gagggagctt
240

ggtcctgctc tggtgaaacc cacacagacc ctacactga cctgcacctt ctctgggttc
300

tcactcagca ctagtggaat gtgtgtgagc tggatccgtc agccccagg gaaggccctg
360

gagtggcttg cactcattga ttgggatgat gataaatact acagcacatc tctgaagacc
420

aggctcacca tctccaagga cacctccaaa aaccaggtgg tccttacaat gaccaacatg
480

gaccctgtgg acacagccac gtattattgt gcacggata
519

<210> 257
<211> 568
<212> DNA
<213> homo sapiens;

<400> 257
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120

atggagtttg ggctgagctg ggttttcctt gttgctatta taaaaggatg tttatggaga
180

actagagaca ttgagtggac gtgagtgaga taagcagtga atatatgtgg cagtttctga
240

ctaggttgtc tctgtgtttg cagggtgtcca gtgtcaggtg cagctgggtg agtctggggg
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aggcttggtc aagcctggag ggtccctgag actctcctgt gcagcctctg gattcacctt
360

cagtgactac tacatgagct ggatccgcca ggctccaggg aaggggctgg agtgggtttc
420

atacattagt agtagtggtg gtacatatata ctacgcagac tctgtgaagg gccgattcac
480

catctccagg gacaacgcca agaactcact gtatctgcaa atgaacagcc tgagagccga
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ggacacggcc gtgtattact gtgcgaga
568

<210> 258

<211> 531

<212> DNA

<213> homo sapiens;

<400> 258

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ctgaacacac aggactcacc atggagttgg ggctgagctg ggttttcctt gttgctatat
120

tagaaggtga ttcatggaga actagagata ttgagtgtga atgggcatga atgagagaaa
180

cagtgggtat gtgtggcaat ttctgacttt tgtgtctctg tgtttgcagg tgtccagtgt
240

gagggtgcagc tgggtggagtc tgggggaggc ttggtacagc ctggggggtc cctgagactc
300

tcctgtgcag cctctggatt caccttcagt agctacgaca tgcactgggt ccgccaagct
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acaggaaaag gtctggagtg ggtctcagct attggtactg ctggtgacac atactatcca
420

ggctccgtga agggccgatt caccatctcc agagaaaatg ccaagaactc cttgtatctt
480

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531

<210> 259

<211> 540

<212> DNA

<213> homo sapiens;

<400> 259

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120

taaaagggtga tttatggaga actagagaga ttaagtgtga gtggacgtga gtgagagaaa
180

cagtggatat gtgtggcagt ttctgatctt agtgtctctg tgtttgcagg tgtccagtgt
240

gagggtgcagc tgggtggagtc tgggggaggc ttggtaaagc ctgggggggc ccttagactc
300

tcctgtgcag cctctggatt cactttcagt aacgcctgga tgagctgggt ccgccaggct
360

ccagggaagg ggctggagtg ggttggccgt attaaaagca aaactgatgg tgggacaaca
420

gactacgtg caccctgaa aggcagattc accatctcaa gagatgattc aaaaaacacg
480

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<210> 260

<211> 526

<212> DNA

<213> homo sapiens;

<400> 260

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120

gtgattcatg gagaactaag gatattgagt gaggggacat gaggagaga aacagtggat
180

atgtgtggca gtttctgacc aggggtgtctc tgtgtttgca ggtgtccagt gtgagggtgca
240

gctgggtggag tctgggggag gcttggtaca gcctgggggg tccctgagac tctcctgtgc
300

agcctctgga ttcaccttca gtaacagtga catgaactgg gcccgcaagg ctccaggaaa
360

ggggctggag tgggtatcgg gtgttagttg gaatggcagt aggacgcact atgtggactc
420

cgtgaagcgc cgattcatca tctccagaga caattccagg aactccctgt atctgcaaaa
480

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526

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<211> 515
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<213> homo sapiens;

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120

tcaatagaga tgttgagtgt gagtgaacac gagtgagaga aacagtggat ttgtgtggca
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gtttctgacc aggtgtctct gtgtttgcag gtgtccagtg tgaggtgcag ctggtggagt
240

ctgggggagg tgtggtacgg cctggggggt ccctgagact ctctgtgca gcctctggat
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tcacctttga tgattatggc atgagctggg tccgccaagc tccaggaag gggctggagt
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gggtctctgg tattaattgg aatggtggta gcacaggta tgcagactct gtgaagggcc
420

gattcaccat ctccagagac aacgccaaga actccctgta tctgcaaata aacagtctga
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<211> 531
<212> DNA
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120

agaaggtgaa tcatggaaaa gtagagagat ttagtggtg tggatatgag tgagagaaac
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ggtggatgtg tgtgacagtt tctgaccaat gtctctctgt ttgcagggtg ccagtgtgag
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gtgcagctgg tggagtctgg gggaggcctg gtcaagcctg gggggtcct gagactctcc
300

tgtgcagcct ctggattcac cttcagtagc tatagcatga actgggtccg ccaggctcca
360

gggaaggggc tggagtgggt ctcatccatt agtagtagta gtagttacat atactacgca
420

gactcagtga agggccgatt caccatctcc agagacaacg ccaagaactc actgtatctg
480

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531

<210> 263

<211> 533

<212> DNA

<213> homo sapiens;

<400> 263

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120

aaaaggtaat tcatggagaa atagaaaaat tgagtgtgaa tggataagag tgagagaaac
180

agtggatacg tgtggcagtt tctgaccagg gtttcttttt gtttgcagggt gtccagtgtg
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agggtgcagct gttggagtct gggggaggct tgggtacagcc tgggggggtcc ctgagactct
300

cctgtgcagc ctctggattc accttttagca gctatgccat gagctgggtc cgccaggctc
360

caggggaagg gctggagtgg gtctcagcta ttagtggtag tgggtggtagc acatactacg
420

cagactccgt gaagggccgg ttcacatct ccagagacaa ttccaagaac acgctgtatc
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533

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120

taagaggatga ttcattggaga aatagagaga ctgagtgtga gtgaacatga gtgagaaaaa
180

ctggatttgt gtggcatttt ctgataacgg tgtccttctg tttgcagggtg tccagtgtca
240

ggtgcagctg gtggagtctg ggggagggcgt ggtccagcct gggagggtccc tgagactctc
300

ctgtgcagcc tctggattca ccttcagtag ctatggcatg cactgggtcc gccaggctcc
360

aggcaagggg ctggagtggg tggcagttat atcatatgat ggaagtaata aatactatgc
420

agactccgtg aaggggccgat tcaccatctc cagagacaat tccaagaaca cgctgtatct
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120

taagaggatga ttcattggaga aatagagaga ctgagtgtga gtgaacatga gtgagaaaaa
180

ctggatttgt gtggcatttt ctgataacgg tgtccttctg tttgcagggtg tccagtgtca

240

ggtgcagctg gtggagtctg ggggagggcgt ggtccagcct gggaggtccc tgagactctc
300

ctgtgcagcg tctggattca ccttcagtag ctatggcatg cactgggtcc gccaggctcc
360

aggcaagggg ctggagtggg tggcagttat atggtatgat ggaagtaata aatactatgc
420

agactccgtg aagggccgat tcaccatctc cagagacaat tccaagaaca cgctgtatct
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<210> 266

<211> 467

<212> DNA

<213> homo sapiens;

<400> 266

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120

tttggtggtc agtttctgac caggggtgtct ctgtgtttgc aggtgtccag tgtgagggtc
180

agctgggtgga gtctggggga ggcttggtac agcctggggg atccctgaga ctctcctgtg
240

cagcctctgg attcaccttc agtaacagtg acatgaactg ggtccatcag gctccaggaa
300

aggggctgga gtgggtatcg ggtgttagtt ggaatggcag taggacgcac tatgcagact
360

ctgtgaaggg ccgattcatc atctccagag acaattccag gaacaccctg tatctgcaaa
420

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<210> 267

<211> 529

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120

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180

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420

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<211> 537

<212> DNA

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<400> 268

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cagtggatat gtgtggcagt gtctgaccag ggtgtctctg tgtttgcagg tgtccagtgt
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gaagtgcagc tgggtggagtc tgggggagtc gtggtacagc ctgggggggtc cctgagactc
300

tcctgtgcag cctctggatt cacctttgat gattatacca tgcactgggt ccgtcaagct
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420

gcagactctg tgaagggccg attcaccatc tccagagaca acagcaaaaa ctccctgtat
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<211> 533

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cctgtgcagc ctctggattc accttcagta gctatagcat gaactgggtc cgccaggctc
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420

cagactctgt gaagggccga ttcaccatct ccagagacaa tgccaagaac tcaactgtatc
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<211> 670

<212> DNA

<213> homo sapiens;

<400> 271

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120

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360

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420

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<211> 534
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240

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360

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420

gcagactctg tgaagggcag attcaccatc tccagagaca attccaagaa cacgctgtat
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120

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240

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300

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420

tccgtgaagg gccgattcac catctccaga gacaattcca agaacacgct gtatcttcaa
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tggactctgt gaagggccga ttcaccatct ccagagacaa cgccaagaac tcaactgtatc

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360

ccaggggaagg ggctggagtg ggttggccgt actagaaaca aagctaacag ttacaccaca
420

gaatacgccg cgtctgtgaa aggcagattc accatctcaa gagatgattc aaagaactca
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<211> 540
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120

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420

gcatatgctg cgtcggtgaa aggcaggttc accatctcca gagatgattc aaagaacacg
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<211> 690

<212> DNA

<213> homo sapiens;

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120

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240

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480

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tcacgtatta atagtgatgg gagtagcaca agctacgcgg actccgtgaa gggccgattc

600

accatctcca gagacaacgc caagaacacg ctgtatctgc aaatgaacag tctgagagcc
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<210> 278

<211> 525

<212> DNA

<213> homo sapiens;

<400> 278

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420

aagggccgat tcaccatctc cagagacaac gccagaact ccctgtatct gcaaatgaac
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<211> 505

<212> DNA

<213> homo sapiens;

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<210> 280

<211> 508

<212> DNA

<213> homo sapiens;

<400> 280

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300

cagtgggtgt tactactgga gctggatccg ccagcaccca ggggaaggcc tggagtggat
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420

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<211> 494

<212> DNA

<213> homo sapiens;

<400> 283

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360

ccagtgggag caccaactac aaccctccc tcaagagtcg agtcaccatg tcagtagaca
420

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<210> 284

<211> 2025

<212> DNA

<213> homo sapiens;

<400> 284

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420

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<211> 537

<212> DNA

<213> homo sapiens;

<400> 285

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120

tcctcctcct ggtggcagct cccagatgtg agtgtctcag ggatccagac atgggggtat
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tacaaccct cctcaagag tcgagtcacc atatcagtag acacgtcaa gaaccagttc
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<211> 493

<212> DNA

<213> homo sapiens;

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493

<210> 287
<211> 498
<212> DNA
<213> homo sapiens;

<400> 287
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120

cgtattcaca gcagcattca cagactgagg ggtgtttcac ttgctgttt ccttttgtct
180

ccagggtgcc tgtcacaggt acagctgcag cagtcaggtc caggactggt gaagccctcg
240

cagaccctct cactcacctg tgccatctcc ggggacagtg tctctagcaa cagtgtgtgt
300

tggaactgga tcaggcagtc cccatcgaga ggccttgagt ggctgggaag gacatactac
360

aggccaagt ggtataatga ttatgcagta tctgtgaaaa gtcgaataac catcaaccca
420

gacacatcca agaaccagtt ctccctgcag ctgaactctg tgactcccga ggacacggct
480

gtgtattact gtgcaaga
498

<210> 288
<211> 489
<212> DNA
<213> homo sapiens;

<400> 288
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tggacctgga gcatacctctt cttgggtggca gcagcaacag gtaaggggct ccccagtctc
120

gggggttgagg cagaaaccag gccactcaag tgaggcttta cccacccctg tgcctctctc
180

acaggtacct actcccaggt gcagctggtg cagtctggcc atgaggtgaa gcagcctggg
240

gcctcagtga aggtctcctg caaggcttct ggttacagtt tcaccaccta tggatatgaat
300

tgggtgccac agggccctgg acaagggtt gagtggatgg gatgggtcaa cacctacact
360

gggaacccaa catatgccca gggcttcaca ggacggtttg tcttctccat ggacacctct
420

gccagcacag catacctgca gatcagcagc ctaaaggctg aggacatggc catgtattac
480

tgtgcgaga
489

<210> 289
<211> 38
<212> DNA
<213> homo sapiens;

<400> 289
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38

<210> 290
<211> 38
<212> DNA
<213> homo sapiens;

<400> 290
attcactttc ggccctggga ccaaagtgga tatcaaac
38

<210> 291
<211> 37
<212> DNA
<213> homo sapiens;

<400> 291
ctcactttcg gcggagggac caaggtggag atcaaac
37

<210> 292
<211> 38
<212> DNA
<213> homo sapiens;

<400> 292
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38

<210> 293
<211> 503
<212> DNA
<213> homo sapiens;

<400> 293
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ctcctgctgc tctgtttccc aggtaaggat ggagaacact agcagtttac tcagcccagg
120

gtgctcagta ctgctttact attcagggaa attctcttac aacatgatta attgtgtgga
180

catttgtttt tatgtttcca atctcaggtg ccagatgtga catccagatg acccagtctc
240

catcctcact gtctgcatct gtaggagaca gagtcacat cacttgctcg gcgagtcagg
300

gcattagcaa ttatttagcc tggtttcagc agaaaccagg gaaagcccct aagtcctga
360

tctatgctgc atccagtttg caaagtggg tcccatcaaa gttcagcggc agtggatctg
420

ggacagattt cactctcacc atcagcagcc tgcagcctga agattttgca acttattact
480

gccaacagta taatagttac cct
503

<210> 294
<211> 503
<212> DNA
<213> homo sapiens;

<400> 294
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ctcctgctgc tctggttccc aggtaaggat ggagaacact agcagtttac tcagcccaga
120

gtgctcagta ctgctttact gttcagggaa attctcttac aacatgatta attgtgtgga
180

catttgtttt tatgtttcca atctcaggtg ccagggtgtga catccagatg acccagtctc
240

catcctccct gtctgcatct gtaggagaca gagtcaccat cacttgccgg gcaagtcagg
300

gcattagaaa tgatttaggc tggatatcagc agaaaccagg gaaagcccct aagcgcctga
360

tctatgctgc atccagtttg caaagtgggg tcccatcaag gttcagcggc agtggatctg
420

ggacagaatt cactctcaca atcagcagcc tgcagcctga agattttgca acttattact
480

gtctacagca taatagttac cct
503

<210> 295

<211> 657

<212> DNA

<213> homo sapiens;

<400> 295

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120

gaagccttat taataggctg gtcacacttt gtgcaggagt cagacccagt caggacacag
180

catggacatg aggggtccccg ctcagctcct ggggctcctg ctgctctggc tcccaggtaa
240

ggaaggagaa cactaggaat ttactcagcc cagtgtgctc agtactgcct ggttattcag
300

ggaagtcttc ctataatatg atcaatagta tgaatatattg tgtttctatt tccaatctca
360

ggtgccaaat gtgacatcca gatgaccagc tctccttcca ccctgtctgc atctgtagga
420

gacagagtca ccatcacttg ccgggccagt cagagtatta gtagctggtt ggccctggat

480

cagcagaaac cagggaaagc ccctaagctc ctgatctata aggcgtctag tttagaaagt
540

ggggtcccat caaggttcag cggcagtgga tctgggacag aattcactct caccatcagc
600

agcctgcagc ctgatgattt tgcaacttat tactgccaac agtataatag ttattct
657

<210> 296

<211> 506

<212> DNA

<213> homo sapiens;

<400> 296

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ggctcctgct gctctggctc ccaggtaagg atggagaaca ctggcagttt actcagccca
120

gggtgctcag cacagcctgg ctattcaggg aaattctctt actacatgat taattgtgtg
180

gaccatttgt ttttgtgttt ccaatctcag gtgccagatg tgccatccag atgacccagt
240

ctccatcctc cctgtctgca tctgtaggag acagagtcac catcacttgc cgggcaagtc
300

agggcattag aaatgattta ggctggatc agcagaaacc agggaaagcc cctaagctcc
360

tgatctatgc tgcattccagt ttacaaagtg ggggtcccatc aagggttcagc ggcagtggat
420

ctggcacaga tttcactctc accatcagca gcctgcagcc tgaagatttt gcaacttatt
480

actgtctaca agattacaat taccct
506

<210> 297

<211> 523

<212> DNA

<213> homo sapiens;

<400> 297

aggctggaca cacttcattgc aggagtcaga ccctgtcagg acacagcata gacatgaggg
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120

aggaatttac tcagcccagt gtgcttgga cagcctggcc cttcaggga gttctcttac
180

aacatgatta attgtatgga catttgttt tatgtttcca atctcaggtg ccagatgtgc
240

catccgatg acccagtctc catcctcatt ctctgcatct acaggagaca gagtcacat
300

cacttgctcg gcgagtcagg gtattagcag ttatttagcc tggatatcagc aaaaaccagg
360

gaaagcccct aagctcctga tctatgctgc atccactttg caaagtggg tcccatcaag
420

gttcagcggc agtggatctg ggacagattt cactctcacc atcagctgcc tgcagtctga
480

agattttgca acttattact gtcaacagta ttatagttac cct
523

<210> 298

<211> 534

<212> DNA

<213> homo sapiens;

<400> 298

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ggacatgagg gtccccgctc agctcctggg gctcctgctg ctctggctcc caggtaagg
120

aggagaacac taggaattta ctacagcccag tgtgttccgt acagcctggc tcttgaggga
180

agttctctta caacatgatt aattctatgg acatttgtgt ttatatattcc aatctcaggt
240

gccagatgtg acatccagtt gaccagctct ccaccttcc tgtctgcatc tgtaggagac
300

agagtcacca tcacttgccg ggccagtcag ggcattagca gttatttagc ctggtatcag
360

caaaaaccag ggaaagcccc taagctcctg atctatgctg catccacttt gcaaagtggg
420

gtcccatcaa gggttcagcg cagtggatct gggacagaat tcactctcac aatcagcagc

480

ctgcagcctg aagattttgc aacttattac tgtcaacagc ttaatagtta ccct
534

<210> 299

<211> 656

<212> DNA

<213> homo sapiens;

<400> 299

gggacacctg gggacactga gctggtgctg agttactgag atgagccagc cctgcagctg
60

cgcccagcct gcccacatccc ctgctcattt gcatgttccc agagcacagt ctcttgacct
120

gaagacttat taacaggctg atcacaccct gtgcaggagt cagacccagt caggacacag
180

catggacatg aggggtccccg ctgagctcct ggggctcctg ctgctctggt tcccaggtaa
240

gaaaggagaa cactaggatt atactcggtc agtgtgctga gtactgcttt actattcagg
300

gaacttctct tacagcatga ttaattgtgt ggacatttgt ttttatgttt ccaatctcag
360

gttccagatg cgacatccag atgacccagt ctccatcttc tgtgtctgca tctgtaggag
420

acagagtcac catcacttgt cgggcgagtc aggggtattag cagctggtta gcctgggtatc
480

agcagaaacc agggaaagcc cctaagctcc tgatctatgc tgcacccagt ttgcaaagtg
540

gggtcccatc aagggttcagc ggcagtggat ctgggacaga tttcactctc actatcagca
600

gcctgcagcc tgaagatfff gcaacttact attgtcaaca ggctaacagt ttccct
656

<210> 300

<211> 503

<212> DNA

<213> homo sapiens;

<400> 300

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60

ctcctgctgc tctgtttccc aggtaaggat ggagaacact agcagtttac tcagcccagg
120

gtgctcagta ctgctttact attcagggaa attctcttac aacatgatta attgtgtgga
180

catttgtttt tatgtttcca atctcaggtg ccagatgtga catccagatg acccagtctc
240

catcctcact gtctgcatct gtaggagaca gagtcacat cacttgtcgg gcgagtcagg
300

gtattagcag ctggtttagcc tggatatcagc agaaaccaga gaaagcccct aagtccctga
360

tctatgctgc atccagtttg caaagtgggg tcccatcaag gttcagcggc agtggatctg
420

ggacagattt cactctcacc atcagcagcc tgcagcctga agattttgca acttattact
480

gccaacagta taatagttac cct
503

<210> 301

<211> 657

<212> DNA

<213> homo sapiens;

<400> 301

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cgcccagcct gcccacatccc ctgctcattt gcatgttccc agagcatagc ctctgcccct
120

gaagccttat taataggctg gacacacttc atggaggaat cagtcccact caggacacag
180

catggacatg agggtccttg ctcagctcct ggggctcctg ctgctctggt tcccaggtaa
240

ggatggagaa cactaacagt ttactcagcc cagagtgtc agtactgctt tactgttcag
300

ggaaattctc ttacaacatg attaatgtg tggacatttg tttttatgtt tccaatctca
360

ggtgccagat gtaacatcca gatgaccag tctccatctg ccatgtctgc atctgtagga
420

gacagagtca ccatcacttg tcgggcgagg cagggcatta gcaattattt agcctggttt

480

cagcagaaac cagggaaagt ccctaagcac ctgatctatg ctgcatccag ttgcaaagt
540

ggggtcccat caaggttcag cggcagtgga tctgggacag aattcactct cacaatcagc
600

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657

<210> 302

<211> 487

<212> DNA

<213> homo sapiens;

<400> 302

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tgctctggct cccaggtaag gaaggagaac actaggaatt ttcttagccc actgtgctct
120

ggcacttctg ggaagttctc ttataccatg attcatgggtg tggatatttg tttttatgtt
180

tccaatctca ggtgtcagat ttgacatcca gatgatccag tctccatctt tcctgtctgc
240

atctgtagga gacagagtca gtatcatttg ctgggcaagt gagggcatta gcagtaattt
300

agcctgggat ctgcagaaac cagggaaatc ccctaagctc ttcctctatg atgcaaaaga
360

tttgaccct ggggtctcat cgaggttcag tggcagggga tctgggacgg atttcactct
420

caccatcatc agcctgaagc ctgaagattt tgcagcttat tactgtaaac aggacttcag
480

ttaccct

487

<210> 303

<211> 657

<212> DNA

<213> homo sapiens;

<400> 303

gggacacctg gggacactga gctgggtgctg agttactgag atgaaccagc cctgcagctg
60

tgcccagcct gccttgcccc ctgctaattt gcatgttccc agagcacatc ctctaccct
120

gaagacttat taatgcgctg gtcacacttc atgcaggagt cagacccagt caggacacag
180

catggacatg aggggtgcccg ctcagcgcct ggggctcctg ctgctctggt tcccaggtaa
240

ggaaggagaa ccctagcagt ttactcagcc cagtgtgttc cgtacagcct ggctcttgag
300

ggaagtcttc ttacaacatg attaatgtta tggacatttg tgtttatatt tccaatctca
360

ggtgccagat gtgccatccg gatgaccag tctccattct ccctgtctgc atctgtagga
420

gacagagtca ccatcacttg ctgggccagt cagggcatta gcagttattt agcctggat
480

cagcaaaaac cagcaaaagc ccctaagctc ttcattctatt atgcatccag ttgcaaagt
540

gggggtcccat caagggtcag cggcagtgga tctgggacgg attacactct caccatcagc
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<210> 304

<211> 656

<212> DNA

<213> homo sapiens;

<400> 304

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tgcccagtca gccccatccc ctgctcattt gcatgttccc agagcacaac ctctgcact
120

gaagccttat taataggctg gccacacttc atgcaggagt cagacccagt caggacacag
180

catggacatg aggggtccccg ctcagctcct ggggctcctg ctgctctggc tcccaggtaa
240

ggaaggagaa cactatgaat ttactcagcc aatgtgtca gtacagcctg gcccttcagg
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gaaattctct tactacatga ttaattgtat ggatatttgt ttttatgttt ccaatctcag

360

gtgccagatg tgtcatctgg atgacccagt ctccatcctt actctctgca tctacaggag
420

acagagtcac catcagttgt cggatgagtc agggcattag cagttattta gcctgggtatc
480

agcaaaaacc agggaaagcc cctgagctcc tgatctatgc tgcattccact ttgcaaagtg
540

gggtcccatc aagggttcagt ggcagtggat ctgggacaga tttcactctc accatcagtt
600

gcctgcagtc tgaagatttt gcaacttatt actgtcaaca gtattatagt ttccct
656

<210> 305

<211> 833

<212> DNA

<213> homo sapiens;

<400> 305

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120

gggtgaactc tgggggcccc attgcctccc atgtgtgttc tgtcctcatg ttagatgtgt
180

acgtcttgta ctccaggatg gggcttgtaa cttttatatc tgcgtgagta aggcattgta
240

ggttttagatc tgtaagaatg aggaagattc cagaaggaac aaagaccagt gctccggtga
300

agactctaac agagaaagag ggaatggtag aggaaacttc tagcactcaa agcactctgc
360

tgtgctttga aaatatgttt ttattttgaa attatatatt actagggctt gaatcaaatt
420

ataaaaattg atttagcctg aaataaataa cagaagaaaa attattttta aattgtgctt
480

aaagtttcta cataacctg cacttctctc tcattatttc aggatccagt ggggatattg
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tgatgacca gactccactc tcctcacctg tcacccttgg acagccggcc tccatctcct
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gcagggtctag tcaaagcctc gtacacagtg atggaaacac ctacttgagt tggcttcagc
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agaggccagg ccagcctcca agactcctaa tttataagat ttctaaccgg ttctctgggg
720

tcccagacag attcagtggc agtggggcag ggacagattt cacttgaaa atcagcaggg
780

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833

<210> 306

<211> 816

<212> DNA

<213> homo sapiens;

<400> 306

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120

cggtgagttc tggggcccca ctgcctctaa caacagtgat ctctgggggt ctactacac
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tcctatgtgt gttcctttcc tgtattggac atgcacatgt tgtcctccag agtggggcat
240

gtgatgatca gatctgtgag agtgaggaag attcaagcag aaacaaggat ctgtgctctg
300

gggaagactg acacagaaag gggatggtgt ggggtcttct ggagaccctt ttgagccttg
360

gatcccttga gttccatttt gaaactgtgt atttttgaaa tatgaacaaa tacatatata
420

gcctgaaata aacaacaaat caaaatttat gaaaattaca cataaacttt atacataacc
480

ttgctcttct ttctatttat ttcaggatcc agtggggatg ttgtgatgac tcagtctcca
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ctcgtataca gtgatggaaa cacctacttg aattggtttc agcagaggcc aggccaatct
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ccaaggcgcc taatttataa ggtttctaac cgggactctg ggggtcccaga cagattcagc
720

ggcagtgggt caggcactga tttcacactg aaaatcagca gggtaggaggc tgaggatgtt
780

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816

<210> 307
<211> 833
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<213> homo sapiens;

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gggtgaactc tgggggcccc attgcctccc atgtgtgttc tgcctcatg ttagatgtgt
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240

ggttttagatc tgtaagaatg aggaagattc cagaaggaac aaagaccagt gctccggtga
300

agactctaac agagaaagag ggaatggtag aggaaacttc tagcactcaa agcactctgc
360

tgtgctttga aaatatgttt ttattttgaa attatatatt actagggctt gaatcaaatt
420

ataaaaattg atttagcctg aaataaataa cagaagaaaa attattttta aattgtgctt
480

aaagtttcta cataacctg cacttctctc tcattatttc aggatccagt ggggatattg
540

tgatgacca gactccactc tcctcgctg tcacccttgg acagccggcc tccatctcct
600

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660

agaggccagg ccagcctcca agactcctaa tttataaggt ttctaaccgg ttctctgggg
720

tcccagacag attcagtggc agtggggcag ggacagattt cacactgaaa atcagcaggg
780

tggaagctga ggatgtcggg gtttattact gcacgcaagc tacacaattt cct

833

<210> 308
<211> 781
<212> DNA
<213> homo sapiens;

<400> 308
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120

ggtaagcctg gggacccac tgccttccat gtgtgttctg ccctgcccat gtgttagatg
180

tacaggctct gttctccagg atggggaatg tgaggtttaa atctgtgaga gtgaggacga
240

ttcaaaaaga agcaaggacc tgtgtgctct ggtgaatatc gtcacacaga gaaagggagg
300

tggtgtaggt gacttctaga atccccttg cagcttgcaa atttggaata tgtttagtgt
360

ataaatacaa acaacaaaaa attatatagc ctgaaataaa aaatgaaaat ttatgataaa
420

tgacacatga tatttgtaca tacccttcca cttctttcta tctatttttag gatccagtcg
480

agagattgtg atgaccaga ctccactctc cttgtctatc acccctggag agcaggcctc
540

catgtcctgc aggtctagtc agagcctcct gcatagtgat ggatacacct atttgtattg
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gtttctgcag aaagccaggc cagtctccac gtcctgatc tatgaagttt ccaaccgggt
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ctctggagtg ccagataggt tcagtggcag cgggtcaggg acagatttca cactgaaaat
720

cagccgggtg gaggctgagg attttggagt ttattactgc atgcaagatg cacaagatcc
780

t
781

<210> 309
<211> 758

<212> DNA

<213> homo sapiens;

<400> 309

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ctaattgctct ggataacctg taaggatgga aggagatgag ggaggaggag ggggtgggaa
120

gctgagctct ggcgggccca ctgattcccg tgttttattct aaccatgtgt taaaggaata
180

tggcctatgc tccagggaga ggaattcata ttttgccctg atgatgattt gaaaactcct
240

aaaagcagtg ctctgaataa tatcttgaga aatgaaagaa ctcttggtgcc tatttaataa
300

agggttcatt taaagagttt gtttttatga tatgaatata aatttgtaaa aataaaagat
360

tagccataaa tcaataccat aaggcaaadc tcaaaagttg ttcattatgc tttcacataa
420

ccttgcaactt ctctctcata atttcaggat ccagtgcaga tattgtgatg acccagactc
480

cactctctct gtccgtcacc cctggacagc cggcctccat ctcttgcaag tctagtcaga
540

gcctcctgca tagtgatgga aagacctatt tgtattggta cctgcagaag ccaggccagc
600

ctccacagct cctgatctat gaagtttcca accggttctc tggagtgcc gataggttca
660

gtggcagcgg gtcagggaca gatttcacac tgaaaatcag ccgggtggag gctgaggatg
720

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120

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240

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ccttgatcc cttgagttcc attttgaaac tgtatatattt tgaaatatga acaaatacat
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720

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<211> 561

<212> DNA

<213> homo sapiens;

<400> 311

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gccaccctgt ctttgtctcc aggggaaaga gccaccctct cctgcagggc cagtcagagt
360

gttagcagct acttagcctg gtaccaacag aaacctggcc aggctcccag gctcctcatc
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tatgatgcat ccaacagggc cactggcatc ccagccaggt tcagtggcag tgggtctggg
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<211> 587

<212> DNA

<213> homo sapiens;

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gttttgcag tcagtgaana cctctcaag tcctgttacc tggcaactct gctcagtcac
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360

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420

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<211> 614
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<213> homo sapiens;

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180

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240

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300

tattttcaat cttggatacc accagagaaa ttgtaatgac acagtctcca cccaccctgt
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420

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<211> 611
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120

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300

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420

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420

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<211> 632

<212> DNA

<213> homo sapiens;

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gaaaaccctc tcaagtcctg ttacctggca actctgctga atcaatacaa taattaaagc
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120

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aaataatgac tatttccaat atggatccaa ttatctgctg acttataata ctactagaaa
360

gcaaatttaa atgacatatt tcaattatat ctgagacagc gtgtataagt ttatgtataa
420

tcattgtcca ttactgacta cagggtgccta cggggacatc gtgatgaccc agtctccaga
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660

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720

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120

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240

ctttgctcca taatcagata ccagggcaga aacgacactc acgcagtctc cagcattcat
300

gtcagcgact ccaggagaca aagtcaacat ctctgcaaa gccagccaag acattgatga
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tgatatgaac tggtagcaac agaaaccagg agaagctgct attttcatta ttcaagaagc
420

tactactctc gttcctggaa tcccacctcg attcagtggc agcgggtatg gaacagattt
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tgataatttc cct
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<210> 319
<211> 616
<212> DNA
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caataggtga tttttggctt gatttttaaaa tcctaatttt aaaaatgtaa tgcataattct
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tgtttgctgt atattttcag cctccagggg tgaaattgtg ctgactcagt ctccagactt
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tcagtctgtg actccaaagg agaaagtcac catcacctgc cgggccagtc agagcattgg

420

tagtagctta cactgggtacc agcagaaacc agatcagtct ccaaagctcc tcatcaagta
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<210> 320

<211> 619

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tatttccaca aacctaggcg gagatattct ttcaatctgt aatttctttc attggggact
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ctgcaatagg tgatttttgg cttgatttta aaatcctaatt tttaaaaatg taatgcatat
240

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tgatgtttgc tgtatatattt cagcctccag gggtgaaatt gtgctgactc agtctccaga
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420

tggtagtagc ttacactggg accagcagaa accagatcag tctccaaagc tcctcatcaa
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agatttcacc ctcacatca atagcctgga agctgaagat gctgcagcgt attactgtca
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<211> 577
<212> DNA
<213> homo sapiens;

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atcttcttaa ttaggaacct ggcaccatat ggaacttggc ttgttttttaa atgtgatttt
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cagatgctta tattgtgcta atgtttgctg tatggtttca gcctccaggg gtgatgttgt
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gatgacacag tctccagctt tcctctctgt gactccaggg gagaaagtca ccatcacctg
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ccaggccagt gaaggcattg gcaactactt atactggtac cagcagaaac cagatcaagc
420

cccaaagctc ctcatcaagt atgcttccca gtccatctca ggggtcccct cgaggttcag
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<211> 70
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<210> 328
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<213> homo sapiens;

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gctcagtgga ctctgacat gctctcacat tcctttctgt cccctctaca gtgtcagtgg
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cagagagatt ctctgcatcc aggtcaggaa acacagcctc cctgaccatt actggactcc
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420

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<211> 507

<212> DNA

<213> homo sapiens;

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420

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<211> 581
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120

agcttccctc tctcctcac cctcctcact cactgtgcag gtgacaggat ggggaccaag
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gtcaatcacc atgtctgtgt ctctctcact tccaggggcc tgggcccagt ctgtgctgac
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actcagccac cctcagcgtc tgggaccccc gggcagaggg tcaccatctc ttgttctgga
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ggctccaagt ctggcacctc agcctccctg gccatcagt ggctccggc cgaggatgag
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<211> 515
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240

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<212> DNA

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<211> 981

<212> DNA

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<211> 1739

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