



**PLCG1 (NC\_000020.10, GRCH37) - gDNA - 2026-02-28**

aagcaaggcg gggaaaacca aagttcagga gagcatttgc aggagggcgc 39765232  
tgcggggtag ggtctgagtc ggagccccga atcggactcg agtcctgtcg 39765282  
cgtggggacg gagcgtgcag aggcccatgc gagggacaga cacaaaggcc 39765332  
ctgggagctg caggtcagac cactggacag cgcggccgcg gacctaacgc 39765382  
ccctgtaagg ggtgctcacg cttgggggga actctccgaa agagaggacc 39765432  
actgaaagcc accctggcag caggggcgga acagacagac gtgggtctgg 39765482  
ccgtcgccag aactgcctgc ggaccagccc cgcgctgccg ggggggcggg 39765532  
acatgtcggc tgtccatcag tgcccgcgac caatccgcag gcagccccgc 39765582  
ccccgcccct cccgggagag ggcgcgcgga ggaccgcgcg ccgcccgtgt 39765632  
gaggcggccc gtcctggctc cttgttccgg gaagcccgcc caggtaactg 39765682  
agtttgcccg ggcattcccg gaggacgcgc catcccctca cgtcccgtcc 39765732  
cggtcgctgc atgggcggtg ttcgggacgc gggggctgcg tctgtgcggg 39765782  
accgcggggt agcggccgcc cgtgcgagta cgctgactg acgcgccggc 39765832  
cgccgggcct gcggcctgtg ggccgggctg ccgtgcgtga cagggccgct 39765882  
cgtggccgcc gggctgtgtc cggggccgcg tgagaaagct ctgcgggact 39765932  
gagggtctggg tgggtcgacc gggaacggcg cgcgctcccg ccgccatcgc 39765982  
gcctccgtcc ccgcctgcgg cctgtctggg ggtcgcgggg cgcaggcgcg 39766032  
gcgggcccgc gggcgggggt cctccccacg ggtgcgcggg cgcctttgtt 39766082  
cccggcgccc aagcggggtg gggcctcagg gcagccccgc cccgccgcgc 39766132  
tgaggccccg ccccggtgtc gcctgcagga gccgccgccg ggtcccgtc 39766182  
**GTCTGCCGCC TCAGCCTCAG CCCCAACCTC AGCCGCCGCC GTTGGCCTTG** 39766232  
**CTCCGGGCG** **GTCCTGGCCT** **GTGCCGCCGC** **CGCCCCAGC** **GTCGGAGCCA** 39766282

TGGCGGGCGC CGCGTCCCCT TGCGCCAACG GCTGCGGGCC CGGCGCGCCC 39766332  
TCGGACGCCG AGGTGCTGCA CCTCTGCCGC AGCCTCGAGG TGGGCACCGT 39766382  
CATGACTTTG TTCTACTCCA AGAAGTCGCA GCGACCCGAG CGGAAGACCT 39766432  
TCCAGGTCAA GCTGGAGACG CGCCAGATCA CGTGGAGCCG GGGCGCCGAC 39766482  
AAGATCGAGG GGGCCAgtaa gtgcgcccac ttcctgcctg ggcccgcccc 39766532  
gcgcgggggt cgtgggagcc cggcccgact gcttgacacc cggccggccg 39766582  
ccccagcgac ttgggcaaac tttcggggcc tcccagactc cctccgggcc 39766632  
ccgcccccg c ttcgtctcgg gtggtcactg gggcggggg gcatccgggt 39766682  
cctcggtcac ctgacaggac acccccctc ccccagctgg ggggagtgtt 39766732  
ccaggcgctt tgccctgagg cctaaaaatc ctgcggggct ggagacctgc 39766782  
ggtgcaggca tcgggcccc cagaccctgg gagtgggtggc ggcgtcggcg 39766832  
aggggagcta aggcagtggc ccccaccctg cacgggaacc tggggcctga 39766882  
ccagacggtc cccgcccact ctttatccag aaagagcagt ctgtgaaact 39766932  
ctccggggcc ccaggctggg ctcttatttg caaaggaatc tttgggttcc 39766982  
ctaagtagaa cttaggcaga tggtgggtag ggctggtctt ggagcagagc 39767032  
tgggcctact catctccctc tgggggagag ggaggaaggt ggtcttgttt 39767082  
ggtttggaga agcctgagag aagccagtgg ctggaatctt tttttttttt 39767132  
tttctgctac ttttgtcca aagctggggt ttggaggcct atgtgggtgg 39767182  
gcagacactc aatgccaggg cagggactcc ccttgccctg ggaagcacgt 39767232  
tcccaggaga tgggccccat aaaggcctgc cccagcgcct tggagtccag 39767282  
tattcttctc aggagtgcag ctagtctgtg agtctagccc tttgtcctct 39767332  
gtccggtggc ttcagggagc gggagcggct tctcttagtt tcctgccttt 39767382  
tcgccttccc aggctgagc ttggctgctt ttgcgctggt ctctagtggg 39767432  
aggagggagt tgggggattt tgaaaaacc cagatctttg agagtgttc 39767482  
cacttagcgc gtgcctgtgc tgtggtcgga tgggcactct gctctgccct 39767532  
ccattcccc gcctctcagt gtgaagagat ggtgtgtctg caactctaga 39767582  
ctgggttgct tcttgaggg acccccggag actagggtta gagagacca 39767632  
ggctcagaac caggtctgtg tgaaggagg agatcaggaa gtgacacccc 39767682

aaggggggt cccacaaacc ttcttgggta tgggtgcat gtgtgtagat 39767732  
agttgaggag attgggagga aggaaggtct tgtggtgagg cagccaacca 39767782  
tcctcagcta caaactccag atctgacaca gatctaatgc agctgctcaa 39767832  
cttagaaatg gcagccccct tcctcagtgc cccactgac cctgtcagcc 39767882  
attgggagaa cattttagtg acttgagagc ctgtggattc caaagtaaag 39767932  
gaagaatcga cactgcaaag agctgagata accctgggaa catcactcag 39767982  
gcatcaggct ccaggcatgg tccccttctt tactccctat gctgtgttga 39768032  
gttgggtggca ctggctggaa gttctcagag atctcctggg taacagactg 39768082  
cattttaaac cacgcatatt agcaggcaat aatgtagca cagtggttga 39768132  
tggcaagtct ggatttgaag cccatatatt cattgtgtgt ttcccggcca 39768182  
gttacttacc ttctctgagc ctgatttcc tcatgtgtaa aatgggggta 39768232  
ataatatac cagtataat gggtgctcca ggatcaaag agacaattca 39768282  
tataaaacat ctagcattgt ctgacacata aatgtttaat aaatatgagc 39768332  
tgttattagc aataacatta acaatagacc gtggctgccc ttcaagacc 39768382  
tgaactggga atggtgaggg ggtgaggtgt ggctataggt gaggatgaag 39768432  
gtgcaggaag ggaggaggac ggtgaccaa ttcacatttc acttagattg 39768482  
ctactcagaa aaaggcagga aacagttttg ttttgccca acccatgtgc 39768532  
ccactcacc acccaccatg tagaacagtg tttctgtaga gaaagtgttt 39768582  
gcagttgtgc acatttgact cctgggtgtg acctttcttg tttgtaagtt 39768632  
ggggcctgaa cagaaaagag ggggtgcagag aggggatgat ttatcatgcc 39768682  
tcatgtattt ggggatgga ggcaggcata cagaggacct gataaccccc 39768732  
taccagggg tgagcaggtg ggtcagccag aggtgtacaa attcagtgat 39768782  
ctcatcagtt agctgggatt taacaggcct ggagagtagg cagaggatgt 39768832  
aggaggacc tggcttttgg attttggggg ctgagattga aaagagcctg 39768882  
gatgaaaagt ctggtcagtg cttgtgtgtt cagacttaac taatggaggc 39768932  
ttccactgaa gccgtgccct gcttctacc attcgtgggc tctccttgtt 39768982  
gggtgggttct gatccctgcg gcctctgagg aggttgact gccagccggg 39769032  
ttttctgcca cctggactct tgcccaagca cctcaggtat ctggcctttc 39769082

ctgctgacct taccagggta ccagcagtgc ctgaagcctg gcctaagaga 39769132  
gagacactgt gctaccttca ggggtgttggg agacctgagg gagagacagt 39769182  
gtggtttaag gagcactcat actgatatgt aagaccttct tctgccctga 39769232  
ctctgtgccc tctcttgtca gcagttgtga aatggagctg acacctcctg 39769282  
atctctaggg tggtcatttg gctcaaaagc ggggtgggga agtgcttagg 39769332  
tgttgacaag tttggttgtc ctgggtggtat gacaggaacc aggttggtgt 39769382  
ttggcctttt atgttgacaga tactgacata aatgaataaa atgcagttat 39769432  
gtagagttcc agctgagtgc tattgagacc tttcgtccca ttttacagat 39769482  
gagcaaatgg aaatggagaa tcgtttgtgc ccaaggtgtt gtgtcagtgt 39769532  
gtgccagggc ctcagctggg gccagctcac tagtcagagg ctgactagca 39769582  
acccaagcc catgttccct gtggctccacg tggctcctct gtgagacacc 39769632  
tttgtgctca gacctgcat tacagggcaa agaccacttt ggcttttcta 39769682  
tccaagaca gcctcagcct ctctaggctc tggctccaca ctttttcttc 39769732  
tgggtgtttt tgagttgaga tggttcagac tcgtgtttaa tgaggttgtc 39769782  
catttgaggg tctttgtggg cccagtaaac actggtgtag aactgtgga 39769832  
ggtactctga atactggctg agcatgtcca tggggacttc tgaggcccca 39769882  
ggcttctgtc tttggctgat cttcactag atacttttct agatgccagg 39769932  
ccctctgagg tgaaggagta tgggtgcttg cttttagggg aatgaaaaca 39769982  
ggcaatgaca attgtgagca gtaccttga tgaagagggg gaggggtggcg 39770032  
gaagaaaaca gctaactgcc ttgatgaggc aggcgggctc agaaggagg 39770082  
tagtagtgga accagctggc tggggcttga cccctgtggc tggggagcag 39770132  
accacaccag gaggcctgct ccgagggcta ggcccacagc acgggagagg 39770182  
gcaaggccca ggccggtgtc atcaagggtt ttctttgtac tggctgttac 39770232  
tcccagtgga agaggggagc gagcacatgt ccggatctcc agagctagcc 39770282  
atccctgcct gtgtatttcc tgtctgatgt agtttttcc aagggaaagtc 39770332  
agaccttcta gtgtttcctc agcaccacag gcttgccccg atgtgtgggt 39770382  
ttccaggccc ccccgcccag ctgggatcct ctgtttcctg tgaacctagg 39770432  
aaaaggcct gcttcacaga taactggagg agctgagcac acccagtcct 39770482

gggaccaca acacctccag cttctctcca gactcttggtg tgtgtgtgta 39770532  
cacagatgca caggattcag ttggagttta gagatcttgg ctaccagctt 39770582  
tgctctgggt agcttcttgg aatgaggcac atttattaat atttgcaata 39770632  
agtattatta tacctcccca tttgccaggt gctaggcacc aaggattcaa 39770682  
aagtttattg agacatgggt tgtgccattg atgaactctt ggaaaagaca 39770732  
gatgtagagg catatgatta taaccctgtg tgttacatac cataatataa 39770782  
aggcctctac caagaactgt gaggagctct gccaggaagg cattaagga 39770832  
gaggtgacct ttgaggtagg ccttgaatta ctgaggcacc tgtctgtgcc 39770882  
gaggctaagg aactgggaat cactctgtgc aggggtaggg aacagatatg 39770932  
gtgtggtaga gaggaagctg ggactgggtg gagacagcta tagccctagt 39770982  
gtgccatgct cagcagatta cactcagtcc tggaggcgac gggagtgcagc 39771032  
ggaggctggt gtgggactga cttgcctctg cctgggagac cacagtggca 39771082  
gtggtttgtc aggcaggtgt tggggaggga ggccagtgag ctcctacggt 39771132  
ttgcacagtt tgcaggagag agctgctgag ggcccagaca agaccttctt 39771182  
gctgaggcag ggtggggatg ccatgggtgt agatgggaga agggctgggt 39771232  
cttgaggggt gagacagagc ttagtagtta agcatttggg ccctagactc 39771282  
tgcttgaatt aaaatcctgt tgtgcagctt acttgctctg tgacctaaa 39771332  
gcatatgact acctctctgg gctgcttacc tgtaaaaagg atagtattaa 39771382  
atggcattta ttttataagg tttttgtgag gatttgatga gaacctgtat 39771432  
aaagtgctta gcacctgtat aaagtgctta gcatggagtg tggcacagtg 39771482  
taagtgctta ctacgtagga tccctgacag gacagagatg aggattaagt 39771532  
tctcaggagg acctggtggg gaggagtctg aatgcacctg ctgtcctaag 39771582  
gggctggtgc ctggccacca agcccttga ttcagaggca aggaggcccg 39771632  
cccacctct cttgcagctc tcagcagtcc ctctattgtc agggctcttt 39771682  
cccactgctg gttttgcagg gagacagggc agttggctgg aagcagctgc 39771732  
tttgggtggt aacccttct gtagagtga ggtatgatat tgcctattt 39771782  
ctaagtgcct agcccaggac gctatctgga gagatcttgt ctttgaggaa 39771832  
gtgctcfaat gccacagcct cgatgtggtg gggcctgcct ctgctgtcac 39771882

tgttctgtgt cagtctccgt taactcacag catctcttct tactctgtgc 39771932  
cttttcctgt gggatgtggc ttcaaggaga ccacagatga taagttggag 39771982  
gaagggagtg aggcctgaga ttgcaaaggt gtgatattag gagactgatt 39772032  
tttccccctt tccacttgct ttgttagaac tagagaagtc actgcagact 39772082  
gtgaggagag tcctaggaga gatgggtgtg ggataggagg atgggaatgt 39772132  
tctggtgccc cttgtagagt gccttgttga gaggagcatg ggaacagtgc 39772182  
gtccttgtag ggaatctctg agagcagcat gtttacaggt ggcaagactc 39772232  
aaggtggagc cacgggtgag gagtggcttc aggctacat tgaccagata 39772282  
gtcccacctt gctgtaatt gagctgaagt gcctggagat ttgtggctag 39772332  
agctggtcag atttgggttc aggtctcagc tcttactgtg accttgggca 39772382  
gattactttt ccctgtctga aattgatctt tagctgtaaa agtaatttct 39772432  
cctcacagag ctgtatatta ataataaggg agattatata taagagtaag 39772482  
agattttatg tgaaaactac ccagcacaac atttgtcact tagtggccac 39772532  
ttaacagtat tcatttcctt tactctcacc tttgttaacc acagagctcc 39772582  
aatcttttcc accactaagc tcggccacaa gtggctgctc caacaacctg 39772632  
ggctaggagt ctgtttccta cttgctttct gtgttccttc cctgagtctg 39772682  
tacacagagg actggggcat caaaaaactc tggaattgga atagcatatt 39772732  
gggagttcat ggaacatttt ctcacctggt gtattgtttg aacttcacag 39772782  
cagctccatg aatccatgga gggcaggagt tactatccct ctcttacaga 39772832  
ggagaaaacc aagccctaag ggtaaggta catagcaagt tcatggcaga 39772882  
tcctaggatt tcagattcct gctatagat tcagtttatt ctcccattct 39772932  
ggggaaaatg ataataggat ggaccgttct ataggaacag agggttattt 39772982  
tgttttgttt tgtttttctt ccctctggcc acatgtgttt gaccagccta 39773032  
gacttccatc tgtggacaag ctggactcat tgcctcaatt tcaaaacctg 39773082  
tcctgcactc atccttgcca caacaccggt gtcgagatgc ttggcccacc 39773132  
cagaccttcc ccacactcct acatgggggt gaatgtagcc gctgattggg 39773182  
ggtgggacac agaagagcct caccctcttg actttctggt ttgtggtgac 39773232  
acttccgcct aagcttctac agaacatggg aacctggggc tccatgcccc 39773282

aaatattcctg agaagggcctt ttccaggatt ctctatgaca actcaagagc 39773332  
atgcattcat tcatgtgctc tttaatttgt catacatttg ttgtgggcct 39773382  
tgctactgtg tgttgggcac actgagctgg atgtgattac tccagcctct 39773432  
gacttgttca tgggtggcagt agatctctag cgtggtttgt gttccatctc 39773482  
accataccta ctctccttaa aaaaaaaciaaaaactagct ttcttgggcc 39773532  
tcagtggctc attgaataag tgagagacga cttgtgcttc cctggcttta 39773582  
gactctggca tttgctaact gtgccaagca ctgtggagac cagtagtgga 39773632  
cataaggtta gggtagatac agccagaaaag gagataaata ggagacaga 39773682  
taaaattcct ataggatttg gtgagttcta tgaaggaaat aaggcaagag 39773732  
gctgctctgt cagggtaggt gaggggtgtc tgtgataaca aatgatgcc 39773782  
acatatcaat ggctggcaac aagggaaggtt aatttcccct gtttgctatg 39773832  
tgtgctaacc tacaccaccg tccctggaga gtggcctcag tggttctggg 39773882  
tgaggcctct agtacagaac ctgaacaccc tgggcaaact aggctggaga 39773932  
gggatttgga gtatggaggt ttagaaggaa ttaatttcta tgacttagga 39773982  
tgcatgtggt gagtgtggct ttgctgttgt ggtagagtag agtgctgcct 39774032  
gtgtgggtca agagactgtc ttggctgaca tctttgaaat aggtatattt 39774082  
gtgtggccct tgccctaattg tcatctctgc catagctgcc cccgccttcc 39774132  
ccaccaacc atggccctac ttgagctgcc tgctgagcct actctgttgt 39774182  
ggccacagta tcctcctgct gccagagtt tgagtttctc gctacttctg 39774232  
ccactcatca cacttgcttc ccagagcttt gctgggtgtg ctgaagtctc 39774282  
cagagaaagt ggggaatatg ggtgcctaga gacttctagg ggggtgttttc 39774332  
agcccctaga gagtagagaa gtgtgagaag gggttggtcc ccgaatattc 39774382  
tgtagttttg gggagaagc aatggggaca gtggagttgg ttgccttaag 39774432  
agaggctatg gtccaagag atgggacttg gagagtctct acttgcatc 39774482  
ctggctaagc ccttaattt ctgcacccc tccttgcaag actagttcct 39774532  
tttgagggtg ttcttggcta gcttttgaga ggctgcagtg gctgtgtgcc 39774582  
caggcttaag tcctagcttt ctccccactc tttacctcct aggaaccggg 39774632  
cccatcctgg gggaggcagg gaggagctcc tttttatagt ccacatgtag 39774682

gctttgtgta taggctctgc tgcttccttc cggccctggc ccttcctggt 39774732  
gttggccggt ggcctggct tcagcaagac tcaggatgca gagtaaacgg 39774782  
ggcagggcgt tctcctacag aagactggca tcccttttta ctgagcccag 39774832  
gcctggcaca gaggaggctg gagttagaa gcaagaaaac gaggtgaccc 39774882  
agtccttgat cctgagaagc ttgtgatctg gacatgcag aaaaccgcta 39774932  
atgccaggg ctggcaggag acagctgtgc ctaaagtgc gtaggctggg 39774982  
cctgagggcc aagatggaat cgcttttctc cctgtagcag cccatcctac 39775032  
cccctggggt ccctccacct gccagctggc acacaggtgt tgggtaaagc 39775082  
atctgtacaa aggctgtgag gggcctgggc gcaaggcagc aaggcttggg 39775132  
tacggaggag agtgggtggt cttactgatg ttctgggccc tgacagtga 39775182  
cagctggcca aactggtgag gagttgggcc atggcgagtt tggccacttg 39775232  
tttgtgtgtg tttagtctt cctgggcaca ggtggggagt tcactttggg 39775282  
gttggcttcc tgttttcttg gacacctggg gatatggtt agttaaagt 39775332  
ttctgagga aatgattgtt gagggcatgg gcttgggtca tagtgcctt 39775382  
ggcttggcct tgcccatggt aggagtcggg tattgaccac actgggttct 39775432  
ggctgtgtag gtgtggatgt gtgggtggag aattccaacc ccacctgac 39775482  
ttcagcctaa ggcccagaga gtgtgggcct gagttcacag ggtgactaac 39775532  
cctaggaagg agtgaaggag agctccagtt ggccataggt cccacaggtt 39775582  
tctcagctta cttgggggca ggaggtgagc taaggaatac aactccattc 39775632  
cctcagttgg gaggttggc agcgatgggg gcaggggtga tggtccttct 39775682  
ctgaggcact gaagaccac tttatggtca ccctattctg cctgatagtc 39775732  
caccacctgt ttggaggcag ctcccctctt cctgccctag tcacttcctc 39775782  
caccttcaac agtaattgag tataatgtgc ctgtgttagc ttgtccatcc 39775832  
taactgggac tgtggcctt tcttgggcgt tcttagcata tctaccaagg 39775882  
aggttgaaa aggtaacata tgtcactttg ttaaggattt tgctgagggc 39775932  
cttttgaggc cagcagtga acacagagca ttccctccag tgagaacaga 39775982  
atgtctgttg ccagactgat cacaagagga tggcctggtt ctggcctgag 39776032  
aactggtcta caccggaagc atgaagctcc atacaatcat gtgtgctagt 39776082

aaagtttggg caagcagctg tcctaagcag gtaaaacgat aggttattca 39776132  
acttcaactt cagagaaaga aatccaaggt agccatctct ctcagtaggg 39776182  
gaggtgagtt caaagaattt aagctgggct gggcacgggtg gctcacgcct 39776232  
gtaatccag cactttggga ggccaaggta gggggatcac gaggtcagga 39776282  
gttcaagacc agcctggcta agatggtgaa atcccatctc tactaaaaat 39776332  
acaaaaatta accaggcgtg gtgtcaggcg cctgtaaccc agctactcag 39776382  
gaagctgagg caggataatt gcttgaaccc gggaggcaga ggttgagtg 39776432  
agccaagatc gcgccattgc actccagcct gggtgacaga gcaagactct 39776482  
gtctctttaa aaaaaaaaaa aaatttaagc tgggctttct gggcaggcag 39776532  
tgagtgaatg agatccctgg caccttggag tgagatcaga gtctagatca 39776582  
ctcactgggg ccctgtttcc caggaagcaa aaaggaaca ggagagtggc 39776632  
ttggcttggg ctggcatggc gcaaaggag tgacagccaga tgctgtggcg 39776682  
gctgggtcaa gtagctctaa aacaggagag cctagtgggt tctgctgaag 39776732  
caggatgtct cagcaagcag gcctctgacc tgacgacttc cggtcattat 39776782  
ttagaacgtc tccagcccca cagatttact ctggttgagg cttaaggact 39776832  
aaaccaacat ttactgtcca agaggtggca gtaaacacaga aaccaaagag 39776882  
gcaggaacca aggttggggg ggtgagatgt catgggggtc agggagtggc 39776932  
agaggggaag gcctctattc tcccttccc acttgtctcc ctacctcagc 39776982  
ccctgttgct ctgacgcttc cccaccact atgagtccta ggcccctgtt 39777032  
gtttccttgt aggagggaga cccagattt ttatttcttc tccaacca 39777082  
ttccatttcc tctcccttgt gagagggtc tgacagaca gggcagcaga 39777132  
gagagacttg gagatatgct gggctgtggg caggagggcc tcatttatct 39777182  
agtgagcagg aacaggttat atagcagtg tgctttcata gtatttttct 39777232  
tgaataaggt ccccaaac ttattaagtt cctggtaggc atggagcatt 39777282  
gaagatggca gacatgggag agtctctcaa ggagtttacg ctctagtggg 39777332  
gaaaacaatc agacagcctt aaaatacatg tatggctact ataataaata 39777382  
ctgtgaagca ggagtgcacc acgaaacctg ggtcctctc catcctcccc 39777432  
ttctgtctgt gctggccctg cttggccact tccaacaagg attctgaggc 39777482

attacagagc acacgtctag ggtacaggca gtcttggctt tgaagtattg 39777532  
ttggctttgc cactcaccaa ctgccacctt aggtaagtta attaacctct 39777582  
ttgtgctcaa tttcctcact cgggaattgg ggaccctaata acttacttca 39777632  
tagtgttatt tgcaagtata aaatataagg cagtttttat cgttgtaagg 39777682  
cagtcttatac aagagcttta tgcaatgtct atgcaaagta aatatgcaag 39777732  
aaattagtgt taggatgcca gatgctgctg ttgctcatcg tctcttccca 39777782  
cccagcagag gtagtaacta cttcatcctc tacttctcag cttcttatag 39777832  
tatttgtctg tggactctaa cgtaagctat ctagcataat actcatatct 39777882  
aatttttctt tccacattca agctccttga ggtacttgta ttccaagtat 39777932  
ctagtttaat gtctctcatg taggtgctca gaacgatgg ttaattttga 39777982  
ataataaagc cagtgggact tctcagaggg ctggattggg ggctggtag 39778032  
agaaaaggag atgccaagga tcattctgaa gtttggagt tgggtacctg 39778082  
tttgaatggt gatgctctta gctgaccag ggggatggc aagaggcctt 39778132  
ggttctgggt agagagagaa gacagtgtt ggttttgagg agttgtctt 39778182  
gagacgtttt gagatgaaga gtgggatag caagtaggca gctgaattga 39778232  
aggatctgaa gcttaagagg agaggactag gctagagacc tgtttgtgaa 39778282  
ttatctgtac ataggaggta attaaggggtg tgggcatggc tgacactgat 39778332  
gaggaagaag gcagagcacc ggaagagagg accttgacct gagccttgac 39778382  
caaggccatt gctaaatgca ggtaggcctg tagcgacaa agaagcatga 39778432  
aaaccaggca aggttgtgca ggagaaatca agggcagagc ttcaaggaga 39778482  
gagggcgtga tcaacctagt tgattgctct gaggtgtcag gaaggaggac 39778532  
catagataag tgatttatgg gtcaggcacg gtgattcatg cctgtaatcc 39778582  
cagctctttg ggaggccaag actggcgagt catttgagcc caggagtca 39778632  
agaacagcct gggcaacatg gcaaaacacc atctctgcaa aaaatataat 39778682  
cagcctggcg ttgtggtttg cctgtagtcc cagctacctg aaaggccaag 39778732  
gtgggaggat cacctgcacc tggggaggta gaggctacag tgagccctgt 39778782  
tggtgccact gcactccagc ctggacaaca gagtgactta tgggccaggc 39778832  
atggtggctc acacctgtaa tcccagcact ttgggaggcc gaagtgagag 39778882

gatcacttga ggccaggagt ttgagacaag cttgggcaac atagtgagac 39778932  
cccattctcta taaaatataa agaaaaattht taaaagtgac ttatacccat 39778982  
tgctctgggt ctccaagtag cctgagtgta ctatgtgggg gagcatttta 39779032  
tgagggactt ttgaggtcct gggcatccct gagacatggc cctggtgggt 39779082  
ccccagtctc tctcctgtag ctaggagcct ggcatacaca ggccatctag 39779132  
aaagaactta ggagcatca gtctgcaagg gaggcagagt ttggagcaca 39779182  
ctagactcct gacacagagg ctgacctag gctgcctgga gaatcttctg 39779232  
ggcttgtgca gaaaagtgg ggaaagccac cttccctac tgtggcagtc 39779282  
aaggcttgg ataggccatc tccctccct tctcatccat gatactctga 39779332  
atgccctgtt tgtggaactt agtggactcc tgcacctctg tcttggtttc 39779382  
catgaacccc tctgccaat gtgtgcttgt cagccctcca gacctggctt 39779432  
ttacagagca ctccaagaca ttgctctaca cactcagc tccacagaca 39779482  
cctccctgtt gttctactcg ttgcatgacc tcatagtat ctgcttccc 39779532  
atctgtttcc tccatcaggc aggggttttc tcaaaggcag gaactcaaat 39779582  
gccttattga tctctgtttc cctaggacc agcccagggc ctgacatgga 39779632  
gtagatagat gcccataaa tgtttgatca gatgatggaa tgaatgactg 39779682  
cataagccga atagatcact gctgagtgct cttccagctt taatttctct 39779732  
gggtgggacc tcctttccct tccttccctt ggattctgtt cttacctctg 39779782  
aaataggtga gattaattta ggtcctagg gaagagggt gcctgcctgg 39779832  
atggtacaaa ggctggctgt ggctgctctg tgtttctctg tataccagc 39779882  
gtcagggata gcagctgctg tggggacact gcagagtgtc ccagttctgc 39779932  
catgactcac catatgacca tgacaagacc ctttgacc tctgtttcct 39779982  
cattgtttca aagagatttg tctagaatct agaccaagct tgtccaactc 39780032  
gctgcccgcg ggtctgggtt gaaggcagct gctgcacagt aatgggaagg 39780082  
acagtaagcc ccaccatcgc cttcccttg ccatataacc ctgtgacctc 39780132  
agaagtccct gaaccagat ccttggttgt aaaatggaaa gggatagcta 39780182  
cccaccctc cactttgacc ttcctttgtt ggagccaga tgtgctcagg 39780232  
gaaacctcag atttgtgagt atgtttctac tgagaggcag gaggaggaat 39780282

attatagtct caggaagagg gaggaatgag agggagagga gaactctcac 39780332  
cctttccaca ggctttgggc atatgcagcc agcttggaat tgctgaccat 39780382  
cctgtgacct ggctactatt gcatcaggct tccttcccac ctgtgtccag 39780432  
gtcctatctt tgtctcttct ttggctacct ccaccccttt ccttcagagc 39780482  
tgcaaaaacc ttgccaaagc cgtatggtcc tgatgggtgc agagcccctg 39780532  
tgcctctggc tgcctgtgaa ggggatctg cagtgcagtg cctgccgtac 39780582  
cccacagga gttgtatagg aacctgggga tgggtgact gaggtagggg 39780632  
gccagaagtg gccagatga tactcacttc tgctggaact tttctttgtc 39780682  
catctttcag catcctctgg tggagaaggc ttagctccat taatgctctc 39780732  
ctaggctctg gctgtgtatt ttctttggta tgggagtggg gaactgggag 39780782  
ggactcatct gtttgccaca gactacatgt ggagaggggtg attggtgaga 39780832  
ggtcattttg gagatctaca cacctcttct gacccctggg accactctcc 39780882  
tgaatctcct catggtcttg gcttcgggcc cagcagggcg tgggtgctcg 39780932  
gcatcctgct gcttttactg tttttccaa agctctgtta gcttcccgtg 39780982  
gttcccactg gctataggaa tctttatgta aggacttccc agtgtttcca 39781032  
gactgtattht gccccaggg gtcacattcc ccccaactat gcctgctgct 39781082  
gctttttctg ttcccgttgt tacctcactg accactgcat tttcagtatt 39781132  
tgttgtagcc cctcagcctc tgtggccac tgtgccacct cttccaggaa 39781182  
gccatccttg ataccatctt tctggtacca tttttgagca tctgtggcct 39781232  
ttgctgcctg ttagataatt agctctggaa tctaactccc atgtgtttac 39781282  
tcctgctctt aagtactctg aacattttga ggcctcccca ggcctgggt 39781332  
ttgtgttggc ctggtagggc atggagagaa gagtcaaatg tggtttcttc 39781382  
cttggaggag ctcataggcc agtggcctaa gacaccaggg aagcaccagc 39781432  
agggtgtgaca agtgggtgaca cacaagagag gggggggcac ctagtgtgcc 39781482  
cctggcctgg gcctgggtggg ggcttaagtg aggaggtagg agtggcttgt 39781532  
gcaaaggctg aggcaggaag gagtatgggg agacatgggc tgggtgtctgt 39781582  
gttgtgttaa ttggacttgg acccttttga ggagggtctg gctttccctg 39781632  
ccttcctcca gtgccctctg cagagtgggg cacacaggcc ttgaggggtt 39781682

ctgggggtcca caggccacag gtgggggtag taaaaacccc cagaagggaa 39781732  
ggaacctgtc caggaaatct tcgcttacct ctttcaagct ctttagattt 39781782  
taaagagacc tttcatattt actatgagtt gcagtttttt taagttacaa 39781832  
aatttcttta ctccatgcat gtttaaatgg atagttttttg ctaccattta 39781882  
catcaattag cttacacact ttgggttttg tgtttttggt ttgtgttttt 39781932  
agagaaagga tctcgctttg ttggccaggc tggagtacag tactgtgatc 39781982  
atagctcata gagcttccta ctcatctgca gcctcaaacc cttgggctca 39782032  
agtgatcttt cccaccgcct cccaagtagc tgggactaca ggcatgtgct 39782082  
accatgtcta gctaagtttt tttaattttt attttttgca gaggtgggggt 39782132  
cttctctgt taccagatg ggtcttgaac tcctggcctc aagcagtcct 39782182  
cttgcctcag ctttctaaag tgagcgtatg cactttataa agggaaaacc 39782232  
ctctctgaag agaaatattt cagacagggc atggttgctc atgcttctaa 39782282  
tcccagcact ttgggaggcc gaggcaggcg aatcactgga ggtcaggagt 39782332  
ttgagagcag ctggccaaca tggtgaaacc ccgtctctac taaaaataca 39782382  
aaaatcagct gggcatggtg gtgtgcatct gtaatcccag ctacttggga 39782432  
gactgaghta tgagaatcac ttgaaccccc gaggcagagg ttgcagttaa 39782482  
ccgagattgc accactgcac tccagcctgg gcaacagagc gagacacca 39782532  
gaccagaga aatatttcag tgaaagcatg tttcatgttc agaaatttgg 39782582  
ggtacttttg gttatggttt tcttggccat atcttcatca tttggtgggt 39782632  
ttagttttca atatgtcctc ctgtcccttt ctgattaaat cacttctgta 39782682  
tctcttacct cattggcatc tcaactgtagt ccaatgaagg aggtgccagg 39782732  
agtggtgatt ctattttgca gatgaagaaa atgaggctca gagagatggg 39782782  
tccaggcctc ctgccacct tgccagtgtc tttgttcata atacctctct 39782832  
acaccctttt tgccctgctga gcggttaaca ggcttataaa tttgggggac 39782882  
ctctgtctgt tgggctattt ggaagtggct tttttgagca caggggatac 39782932  
taggacacag gttccaacaa gaaacttagg tctaatttag ggtcttgat 39782982  
ttgatgattg ggctccctct ccccttcta gggcctgcca tgtgtctgcc 39783032  
ccctagggca ggattggctg gctctcactg gctgtgctct gaggagccct 39783082

gcctttgctc ttctctttct cttccctagg gttcctgctg tccttgaact 39783132  
ctgccggggc aacaggaata ctgcccttat gcacatcctc gtgggtggcca 39783182  
gacaggggtg ttatcccact ttactggaca ggaagagagc tagtggcagg 39783232  
cctgtgactt ggcctgatgt ctcgggggag tcgggggtggg agcaagagtc 39783282  
aaagacagga agcagcccta ccttcagaag agccaggcac acagatgggt 39783332  
cctttgtggg tattgtcttc tccctttccc aggttccaga ctggctgccc 39783382  
gccatatagc ttgtcccttc gacagcacc cctctcccca ctcagtggat 39783432  
tgggtgctgt cccaggggtg gggcttactc tcctgcagag gcaggttctc 39783482  
agctggccct gagggttgta tagcttcaca gctcccagag tgcttgggca 39783532  
taggggtggc cagatgagga aacaggctcc tcttttaaag ggaaagcaac 39783582  
tgccattact ggcatgtcca aaagggggat gctgtccagg actgcatggc 39783632  
ccagaagctc cgctctgagt aactgctggt ctctaacttc tgtggtctca 39783682  
ggccaggagt ctgtccctgg gctgagaagg gaggggagaa gagggaagag 39783732  
atggaaaagg aacattgctc ttcccagtct ccctggcctc gtcatataac 39783782  
cttttatttt acaaattcag tcttgaggca ttttgcttta atgcttagag 39783832  
ctggccccag gtgccaggca gcaggcacat ttccttctgc ccaaaaaaca 39783882  
aaacacacat gaatctgagg ttgggcgtgg taagggcagg ccaaggctga 39783932  
ccgtcctatg tggatatctg tgaggtagtg tgcctacatg taagggctctg 39783982  
ttgtgggtct actcccacga aagccttcat cttacgatga accagagagg 39784032  
actgcagact tgccaaggcc tagctatatg cttggagcca ggatttgaac 39784082  
cttgatcttt ggggatgcac gtgcctcaga ctattggtga gtgtgctggt 39784132  
ggggcactgc aggctcagga agcagcgtgt ctgcatatgc ttatctgtac 39784182  
acaagtctgt aagagtcccc cttctcccca tacaatgccc ccatccctgc 39784232  
caggcttctt tttgagctgg cgaaatagct gcttgattc ttctcttcat 39784282  
ggatcatctt tatttcaccc aagtttgggt ttgcacctag tggagccttg 39784332  
gcaagtggcc ttatttgtct ccontactgc cagcttttgt aggctccatg 39784382  
tcaatggcac taggcacaca ggtagacagg tgggctgtct ccagacttct 39784432  
ctattaccag cacttcccag catggccctc acagcaacca tgtgaggtaa 39784482

gaggaatttc cagtttcctg atggggaaac tgagaccaa agagtgaggg 39784532  
actgccaaagg cctcatagct agaatttaag agctgtgtgg ttctcctcac 39784582  
taagctggga aggggatggc cagggaaagc ttcttgaaag agcaggagaa 39784632  
ggcagatctc catcagggca gggagcagag caaggcccca ggattctgcc 39784682  
tggggcacca ggaagcctgg cttatgagaa ggttctcagt cctcagagct 39784732  
gacatgtgat atacagtcca ggcacaggtg tgtgtggtcc ctcattactt 39784782  
cagagcccct taagaaagac tgaatctatt tcttcatcag agtttgtgag 39784832  
cgattcaata taagggacta aatccccctc actgccccaa gcagcttatc 39784882  
ttgtcactgt ctacatagc cacatttggc atggtaatgc ccaggccatt 39784932  
cctgaagccc aggcagcatt cactgtgggc ttggggacat ggtgccattc 39784982  
ctgaagcctg ggcagccatc accatgggccc tggggacgtg gtgctgggca 39785032  
gaatgaatat gctgcagccc tgatgggctg tgctggctgg gctttgcctt 39785082  
cttgggtcaa ggcgagcctg ggcattaggc ctttgtcatt atgctataca 39785132  
tcaggcttct gggctgctac ttgtgggatc ctgcccttgt tctcaaagag 39785182  
ttcctccttc tcaactgccc atcttcttca tagtgacggc ctcttcgtac 39785232  
ccctggcttt tcttttcccc agagtcccc tgaatgttgt cctctcatgg 39785282  
ttctgagttg gggaggagtg ctaggtcatg gatttttggg tataacgtgt 39785332  
gactttccta ctcccctaag tagttctccc cttctcaagc tcctaagttc 39785382  
tggaaggtc tcttttcctg ccctcctgac taatggcaga gaggtctgac 39785432  
ccagactgtg ccagactgga tcattcgctc tgtcacctgc caccagggca 39785482  
gaggccattc ctctctgggg agtctccttg tgaatttctg gggaccagct 39785532  
ctggctctct caagaaagag gatgctgcca tatttgttct gggaggcagg 39785582  
aagatgaagg gtgaggttgg gaggtagcac aggatgtggc tttcaagaac 39785632  
ctagtagagc atctcactgt gctgccaggg ccaggctggt gccttcttac 39785682  
ggaagacagt acaagggatc aggtgtggcc aacaggaact tgggagcatt 39785732  
ggatgcctgg cgtggagctg cgctatgctt acctggttcc tatctcaggc 39785782  
acctgttctg ccttcaactg atctcaatgg aaatatgtgc aggagtgcag 39785832  
gcctgttgac tctgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgta 39785882

cagtcacact cacctttgca agaaggtgtg ggaggggat gacagcagct 39785932  
ccacaccgga agagcagact ggtttctggt tcaaaaggca gagtttgtgg 39785982  
ttgttctgca gtttctgatc tagccatttc ccctgatgga agctcctcct 39786032  
tctgtcattg gaagccctgt gttctcgggt aggtctttta tggcccagtt 39786082  
ctccctgccc ctgtttctac ccgagtataa ctgttcattt ttgttcccca 39786132  
tccctatttg gttttccctc cttctgcctg tgtacctgcc tttttcattt 39786182  
cttcagtcac taagcaagcc ctggaggggc cctgcctggc cttaggtatg 39786232  
tgagcatgta tgtacgtgtt tgtatgcacg aggcacaaag tgtattagta 39786282  
ccacaggaag gagcttctca gttgggccct tgggtggaaga gaagggagcc 39786332  
ggggaggtgg acatttccag actaggaatc aagatgaaat agggatggga 39786382  
agcaacagct attcttgccc taggtgtggc ttagtgtgga tggagcagag 39786432  
agggtgagag ggcaaaagct ggggaggtaa attcctgagc cctgtcacia 39786482  
agagccttca aggcataga aggtgtttgt tgtttgttct ccttagactg 39786532  
gcagtgaggca gcctcgggag gggcttgaat gaggtctagg ggggtcagaa 39786582  
taatgtttta tgaagagcca gaagactggg gaaggatggc tgatgggtga 39786632  
gaaccagggg tcagggaaaa cagcagaaaa ggcaggactc tcagctggag 39786682  
gacaggctgg aggggtttgc tgaggggaca ggtggttcca ggtagaacca 39786732  
gaaatgtgtc ggggagctag ggtagggcc agaagcaatg cccactgttc 39786782  
caggtgggat agatgtggag ttttgtgaca gttgctagag ggacaggaca 39786832  
ggaagagagc atctggggga gttgggccgt taggacattc caggcagggt 39786882  
ggtgtgcagt tcgggctgga agggctcctg ggggtggggc tggccaggca 39786932  
aatgctggca ctgcatctgg ctccgaagtt accaggccag tctgggttta 39786982  
gaggatttta agaggcttca gagcttgggg agtactcaaa gaaagtcata 39787032  
gctgttggct aagccaagct ttttccctt gacctaatct accttaaadc 39787082  
ggtgatttct gggctggaat gtctgccctc cagccagcag gcagcccctc 39787132  
cctgtgctgg agagtgtgtc agagcctgtg cacctttgct gagggagcag 39787182  
aggagtccat tggatgggcc ccctccatgt cccacatata gtgctgggtg 39787232  
tttctagctg ttacgacttt tgatcttacc aacatctttc tgatgctatt 39787282

gtgttactct tatgttactc tcttcacagg tgtagcagtg aggtcagagt 39787332  
ggctgtcact ttattgagat cacatagcta atgtgaggta gagctaggat 39787382  
tttagttcag ccagtctcac ccagagctcg tgcattgttt ttctaccacc 39787432  
ctgccttcta gagaaactca gtcaagccct ttgctttaca catggtaaaa 39787482  
ctgagactct gagaagttaa ataaattatt catcattgcc tcaagtttta 39787532  
gtggctgagg gcaggtcatc tgctattcaa gcccgtgtac ctctctgact 39787582  
atgccttggt aaggccacgg gagcatgcaa gggccttgga tagctaagat 39787632  
aaggaaatgg tcccaggcaa aatggtggtc tgggtccagg atggttgctg 39787682  
ctcttggaaca gccagtgccct tggtcagggg atgggggtggg gattaggccc 39787732  
cttgctgaga cttgtgtggg gatggcttta gcagttaggc atttcagggg 39787782  
tgcaccagtc ctctgggcca ggcctactt tctcccaggg atcctgaggc 39787832  
ccatcttgac ctaccagcc ctgcctctgg gactttatga tttgatttgt 39787882  
gtgtaccttg tgtcaggaag tggtcctcat gaacagcctt gggccctat 39787932  
ttcttcttct ggagtctagc tcttttgagc gtcaaaatgt ctcagtgagg 39787982  
gaacaaagat agggaagga caccacag aaccacctt ccccatata 39788032  
gccctctctg acatctcagc cttacttag caaaggccta tccctagact 39788082  
caaccagcc ctcttattac cagagtgact gagtggctt ggctctgcct 39788132  
ctggggttcc tccctgagag agagtgtaag aatgaggaaa ccaggctgcc 39788182  
ctcctttcgg tgttgactct gggagacccc agcttgatct tggcctctt 39788232  
gctaccttcc tagTTGACAT TCGTGAAAT AAGGAGATCC GCCCAGGGAA 39788282  
GACCTCACGG GACTTTGATC GCTATCAAGA GGACCCAGCT TTCCGCGCGG 39788332  
ACCAGTCACA TTGCTTTGTC ATTCTCTATG GAATGGAAT TCGCCTGAAA 39788382  
ACGCTGAGCC TGCAAGgtgg gagttaaggg ggtagaggag gtagaggata 39788432  
gttaggggaa tgcctgctgg ctctgcccc gtgggaggta tgtgccctcg 39788482  
gggagctat tgataccttg ctcacagCCA CATCTGAGGA TGAAGTGAAC 39788532  
ATGTGGATCA AGGGCTTAAC TTGGCTGATG GAGGATACAT TGCAGGCACC 39788582  
CACACCCCTG CAGATTGAGA Ggtaagaacc actcctgaag gggttagggc 39788632  
tgggagcatt agggaccagg gggacagga cagcagacct ttgtgtgccc 39788682

agacatctcc caggcctgac tgtagatgga gaagtggccc tcacctcagg 39788732  
cttctctctc cagGTGGCTC CGGAAGCAGT TTTACTCAGT GGATCGGAAT 39788782  
CGTGAGGATC Ggtaagtact gagctgtggc tgtagcccag caggggtggg 39788832  
atgggcatcc agaaccttag ccaggcctct aagtagctgc ccggagagcc 39788882  
agaggacca ggggacctta agtggggcca ggaggggtggg cagaaggttc 39788932  
tgccacgtgt agctttctgc acaaagtcct ctggtggcct tgggtgtgagc 39788982  
tggtgagagg agccagccac atgctgtgtg ccctgccact atgggcagag 39789032  
actggatgtg tagaactggc tttgggtgtc ctggaggtga gggtgccag 39789082  
tagcgtgtga agggtgccct gaaactctgg ctctgagacc tggtatggca 39789132  
gccagagggg ccaaggagag aagggggagc aaagaccaga tagtgtgggt 39789182  
gctgcacat ggtgagggtcc tttgacctga aagaaatggg aagccatgga 39789232  
agggttctga ggagaggagt gatgtgacct gacttgggtt actcaagatc 39789282  
actctgcctg ctgtgtggag agctcagtta ggagctgttt ccacactcca 39789332  
ggtgaaaaat gagagggctt ggatcatgat ggtaatggta ggaagtggct 39789382  
ggatthttggc catgttgat tttgaagata gcgccagaaa gaatgtcctt 39789432  
aacagattga ttttggggtg tgagaggcat tgaggataat agtatgctgt 39789482  
ttggcttgag caactggaaa acagagtcac cattgactga gatgagaaga 39789532  
tcatgggact agcccatttg gagggaagct tgggttcagt tcgaggcatg 39789582  
ttaagttttc tgatgcctat tagctgtcca gggagagatg ttgagtaggc 39789632  
aggtggttag agtgagtta ggtacataca cagtaggggc tacagattht 39789682  
aacttgggag tatgtagata aactgaaag ccacagggct gggtgagatc 39789732  
acctaggggg caagcagacc aagaaaagg caggggtccag tggctgatcc 39789782  
cagaccacc ccatattaga gattggaggg gtcagggaca actagtgcgg 39789832  
taagaggaga acccccagag tgttgagttc tggcagccca aggaagaaga 39789882  
cagtggtgaa atctgaccgt tgacccttg atttaacatg gtgagaagag 39789932  
cgggtgtcacc ctagcgggtga ggggctcaag ggaatgagag ggagcaagat 39789982  
gactcttgca aggagthttg ctatggaggg gagcaaagaa gagggcagta 39790032  
gctggagagc taagcagggg caagacaggt gthtttgggtg gaagaagtaa 39790082

caagctgttc gtatgctgat gggaaagaga ccacagaggg caagatcggg 39790132  
gatgcaggca gttgcaacca gaaggcctct gtttcctcac tggaaaacaa 39790182  
ggaccctgat agcacctacc tcctgggtga ctgaggatca gaggaggggg 39790232  
cgcctatata gagccagccc tcctccgca gtgcttgatc cactcagtgt 39790282  
ggcgctcagc cccctcgggg aattttgggt cctcctcca ggctcttggg 39790332  
gcccagagga ggtggtcca ccctcccctc ccctccttga caccaccttc 39790382  
caggagagaa agccccccc ttcccccttc ttgtccatcc tgttgccagg 39790432  
tccagcagtg tccccagcct cacatcctgg gcaggacacc cctggagagc 39790482  
aggggcgctt gttctctcag tttctttcct ggagccaggc cctgtctagc 39790532  
cccaggaggt gccagttgc cagtcattgt atttgggtga gcatgcacct 39790582  
cctccttctc ccctctcatg ggtagtggg ttctgaggac caaactcca 39790632  
gcatcccagt gggcagcagg tagggacctg ctgccatgct gcccccaaca 39790682  
gggaagtgtg gagtgagccc tgccttctgt cttggatagg ctgactgcca 39790732  
ccttggcaca ggcctcagca gtgccgtag gaggggaggc ctggagtgtg 39790782  
gtttttcttc ctcccatgcc tgaccactt tactgaatct gttcacatct 39790832  
tccttgccag aattacaggt tttttttgtt tgttttgtt ttgttttttt 39790882  
tttttttttt tttgctcaga tgaggaactg aggtccaaag aaaggaaggg 39790932  
actaacctca ccccatgggt tctgatccag tcttgccctc aggcctccag 39790982  
gttcccagaa tagtgttgtt tacctgtcca gcccagggtg ggctcgacct 39791032  
acaggtcaga ggtcatgaga agctggatga gaccactggg gatgtccctg 39791082  
ttttctcagT ATATCAGCCA AGGACCTGAA GAACATGCTG TCCCAGGTCA 39791132  
ACTACCGGGT CCCCAACATG CGCTTCCTCC GAGAGCGGCT GACGgtaagt 39791182  
gccaccagc gctgtctgta gatgggggca ggggaagcca agagcccttc 39791232  
agctgggggc ctgactgcct gactggcact cctgctctat accatgcagG 39791282  
ACCTGGAGCA GCGCAGCGGG GACATCACCT ACGGGCAGTT TGCTCAGCTG 39791332  
TACCGCAGCC TCATGTACAG CGCCAGAAG ACGgtgcatg agccacctgc 39791382  
cctccctcaa cccctgcccc tgctcttcca cccacaccc cagctctgcc 39791432  
tgccctcagc ctgctgccct gcttaggggc ttttgggtgc catttctcca 39791482

gttcttctcc tcttgaggcc tgccccatc tgctgctcta gcctgccttc 39791532  
ttactagccc atttcccaca tggcctccca ggggtcttgc cctgaccagg 39791582  
ttctgtttcc tgcagATGGA CCTCCCC TTC TGGGAAGCCA GTACTCTGAG 39791632  
gtttggtttg gagtggggag gtggggtttt ccctgggccc ccttcatctc 39791682  
tccactgggc gattcttgat ccaggtggga ggagtgagg gtagggaacc 39791732  
atgctggacc attctgggaa gctgtgctgg ctgggagttg ggttctgcct 39791782  
tccgtggggc acctgttgt ctgttgacca tactagctag cttaccttct 39791832  
ctccctgcag GGCTGGGGAG CGGCCGAGC TTTGCCGAGT GTCCCTTCCT 39791882  
GAGTTCACAG AGTTCCTTCT TGACTACCAG GGGgtatggc tgggctgaca 39791932  
ttggcccagg ctggtagggt gtggggggct gggctcatcc ctgactggag 39791982  
gcttctctca tcccctgccc tccctacccc atcagGAGCT GTGGGCTGTT 39792032  
GATCGCCTCC AGGTGCAGGA GTTCATGCTC AGCTTCCTCC GAGACCCCTT 39792082  
ACGAGAGATC GAGGAGCCAT ACTTCTTCCT GGATGAGgtg agcccgatgt 39792132  
ttcaccatt ttttgtcaag agaatgagta ggggtgacca ggaccccacc 39792182  
cgggctccag gagctagacg ctccctaggg atgccacctt gtttctacct 39792232  
actgtgcacc ttgcccacc ccagttggga cagagcactc tctctcctac 39792282  
ccccaaccta ccatcttggg ttggacaggg cagggactca ctgtctcttc 39792332  
ccttccacat gtttctggac agTTTGTAC CTTCTGTTC TCCAAAGAGA 39792382  
ACAGTGTGTG GAACTCGCAG CTGGATGCAG TATGCCCGGA CACCATGAAC 39792432  
AACCCTCTTT CCCACTACTG GATCTCCTCC TCGCACAACA Cgtgagtgtg 39792482  
gctccttcag gccacccag cttcttcccc aggagggcc atctgaccat 39792532  
acctacctgc ctctccttgc ctatccagGT ACCTGACCGG GGACCAGTTC 39792582  
TCCAGTGAGT CCTCCTTGGG AGCCTATGCT CGCTGCCCTGC GGATGGGCTG 39792632  
TCGCTGCATT GAGTgtgctt ggggtccagg gctgggggag ggaagatggg 39792682  
aggcctgccc gcttgaccat ggtgatgttg ctccccagTG GACTGCTGGG 39792732  
ACGGCCCGGA TGGGATGCCA GTTATTTACC ATGGGCACAC CCTTACCACC 39792782  
AAGATCAAGT TCTCAGATGT CCTGCACACC ATCAAGGAGC ATGCCTTTGT 39792832  
GGCCTCAGAg tgagtggag gctggatgac ccaggggta acttggctcc 39792882

aggctctctcg ttctagaggg acagagggca gaaagactcc tcaaatgccc 39792932  
tgtccccctct ccctcagcct ttcactcttg tccttcctct tggcctctcc 39792982  
tcgtcacctg ctccctgctt gagctggtgc ttcccaagtt acactttctg 39793032  
tttctacgt gttgggcca ctctcttctt catgggtcct ttagactgta 39793082  
gaacacatgc tcttctcatc ttcagaaaac atgccctggt ttctttaggc 39793132  
cagtgtcctg ccaactcctt tgccctcaca gcccagaaga ttgtctctgt 39793182  
tccctgtgtc ccattccttc aattctgttt actgcttaaa ctgtggtcac 39793232  
tggctcctct tagctcacca gggctctaac agctaacttt ggaggcttct 39793282  
cctctctcct ggcctctttg gtgtgaaaca tttttcttgc actgctgagc 39793332  
agcctccata attgggccag ctcgggactg catcagttgc cacccttgg 39793382  
tttccactgc tgccacagct gtagaacccc tctctgcccc accagtggct 39793432  
atggcctgcc tcttttctgg gatagttttt acagacaaga agccccagg 39793482  
cccttggctt ccaacagctc actgtgaggg gctacttaga cccagagaat 39793532  
tgcagaatct gtttctactgt gcttgtcccc catcccgcag **GTACCCAGTC** 39793582  
**ATCCTGTCCA TTGAGGACCA CTGCAGCATT GCCCAGCAGA GAAACATGGC** 39793632  
**CCAATACTTC AAGAAGGTGC TGGGGGACAC ACTCCTCACC AAGCCCGTGG** 39793682  
**AGATCTCTGC CGACGGGCTC CCCTCACCCA ACCAGCTTAA GAGGAAGATC** 39793732  
**CTCATCAAGg** tgggggtggcg ggcttattgc ggaagcccca cacttctcag 39793782  
tgccttgccc aggccatggc ttcagctgtt gggcctaaac ctgggtgagg 39793832  
agggtggggtg aggactgggg tctgcattgc cctgttctgg ttgccctac 39793882  
ag**CACAAGAA GCTGGCTGAG GGCAGTGCC TACGAGGAGGT GCCTACATCC** 39793932  
**ATGATGTACT CTGAGAACGA CATCAGCAAC TCTATCAAGA ATGGCATCCT** 39793982  
**CTACCTGGAG GACCCGTGTA ACCACgtgag gactgggcca ggctgggggt** 39794032  
ggtaggccag tgggtgtgag gaccctggct cacaagtccc tctttggtct 39794082  
gttccag**GAA TGGTATCCCC ACTACTTTGT TCTGACCAGC AGCAAGATCT** 39794132  
**ACTACTCTGA GGAGACCAGC AGTGACCAGG GCAACGAGGA TGAGGAGGAG** 39794182  
**CCCAAGGAGg** tgaggaacca gctcaggtct gggggctggg ccaggtcagg 39794232  
cctgggccag ggtcacagta tctttgctgt tgccttcccc tgacag**GTCA** 39794282

GCAGCAGCAC AGAGCTGCAC TCCAATGAGA AGTGGTTCCA TGGGAAGCTA 39794332  
GGGGCAGGGC GTGACGGGCG TCACATCGCT GAGCGCCTGC TTACTGAGTA 39794382  
CTGCATCGAG ACCGGAGCCC CTGACGGCTC CTTCCTCGTG CGAGAGAGTG 39794432  
AGACCTTCGT GGGCGACTAC ACGCTCTCTT TCTGgtaaca cttcccatgc 39794482  
agatgcgtat gttcagtcag cgtgtgtaca cagacatcac atcaccaga 39794532  
gataatcagt taacatttga gcctttgatc caggacaata attaggcttt 39794582  
acatggaaca taatttcacc tacatacaca cacacactct ctgtctcacc 39794632  
cccccccat acccctccct tttcggttca tttgaagccc acacctttgg 39794682  
ttcatgtgac tgcccacacc tgagctcctc aggagattgg cctccctcct 39794732  
tgaggctccc tccttgagtt ccaccctcat ttgggggtgga acttggctct 39794782  
tggggccctg gcctgttttc cccagcctcc ctcaactctgt gtcttccaca 39794832  
gGCGGAACGG GAAAGTCCAG CACTGCCGTA TCCACTCCCG GCAAGATGCT 39794882  
GGGACCCCA AGTTCTTCTT GACAGACAAC CTCGTCTTTG ACTCCCTCTA 39794932  
TGACCTCATC ACGCACTACC AGCAGGTGCC CCTGCGCTGT AATGAGTTG 39794982  
AGATGCGACT TTCAGAGCCT GTCCACAGA CCAACGCCCA CGAGAGCAA 39795032  
GAgtgagggg agggcctggg ggcggacaag gcagggcagg gccatgggtg 39795082  
gtgctggccg ggctgactc tgctgttct cagGTGGTAC CACGCGAGCC 39795132  
TGACCAGAGC ACAGGCTGAG CACATGCTAA TGCGCGTCCC TCGTGATGGG 39795182  
GCCTTCTGG TCGGAAGCG GAATGAACCC AACTCATATG CCATCTCTTT 39795232  
CCGgtgaggg gtgtggcact gggttgtggg gccttgcttg ggtctgagct 39795282  
gccctgacct tgtgtgactg ttttgtcctt gtgaagGGCT GAGGGCAAGA 39795332  
TCAAGCATTG CCGTGTCCAG CAAGAGGGCC AGACAGTGAT GCTAGGGAAC 39795382  
TCGGAGTTCG ACAGCCTTGT TGACCTCATC AGCTACTATG AGAAACACCC 39795432  
GCTATAACGC AAGATGAAGC TGCCTATCC CATCAACGAG GAGGCACTGG 39795482  
AGAAGATTGG CACAGCTgtg agggggctgt ggtagacggg gcatggcagg 39795532  
ggaggcagga gagaccaga atcttaccag tctctggatg tgtgtaacag 39795582  
caagacctgg tgtgtttag aagtctgtgg gagggcccct gactccagct 39795632  
gggagccaca gtgtgggtac caggagggtg tctgcaggag gggacatctg 39795682

agcagcatct ttaaggatgg ggacaggcac ataagcagag ggttcctcat 39795732  
gagtcaagat gtggagtgg gaggttctgg ggctcacact gggagaggtg 39795782  
cacacagtgg aaactcatcc acctgggctt ggccctggact ctgtcctagg 39795832  
gcagatgaga tgaggctacc caagagtgggt tgtggagcct ccgcctgggtg 39795882  
gatggtatgg agggcagagc cacaggaggt gagaccagtg agggaaaaag 39795932  
tcaggacca tggcagcaca gctggtgata agggccctgg acagaaggaa 39795982  
ggggtctagg accagaagat cagttgagag actgctgtcg tcagtagaca 39796032  
gggctggctg gggagagaga ggccgttgtt cactggcac ctgggactca 39796082  
agtgatggag aggagcggca ggaggaatgt ggggagtggg aaggcttttc 39796132  
ctgactttgg gctcagcagt gaaccaaca gccactgaac taaagcactg 39796182  
aatatgggta gtctgtgaag ggcccactg cacatagctc agaaatactt 39796232  
gggagtttgg gcatttagga cctgagagat tttagaatcc tgggctgggc 39796282  
cttacctgta agaatgtgaa gaaaggaaag ggaacagtga ggccgggcct 39796332  
gaggcctctg aagccgtctc tactgaggtc gaaggatccc tgtggatcag 39796382  
gtgcaagttt gctgcaactgg gggaaagga agctgctcca gaaaccagta 39796432  
gctgctttct acctctgggc tctggggcat taacatatcc cattgtgtcc 39796482  
tgtttccagG AGCCTGACTA CGGGGCCCTG TATGAGGGAC GCAACCCTGG 39796532  
CTTCTATGTA GAGGCAAAC CTATGCCAAC TTTCAAGgta cagctcaggc 39796582  
ctctgggcat aggaagctgg ggagggctcc cagctgcttg gggcttcatt 39796632  
tctgtgttct gggccatctg tggctcttgt ggagaagtgg tggttgtggt 39796682  
tttccgaggc ccaagaggtt gtgagagat tgtggttggg gagcgaccgc 39796732  
aggctctcca gggccgacc actccctagc ccctaccctc taagtcagca 39796782  
gtgacccttt aaactgctcc tgtgggtgac ccctgtttcc ttctgggca 39796832  
gcagcggggg aggagctggg aggcacactg gccactcatt ccccgccctc 39796882  
atggagccct gttacacagg ttcttttttg ttttgccttt ttctctaaaa 39796932  
aggcctgggc cctatttctc accccctccc ctccacagcc aggggacctg 39796982  
gaaggaagtt tttctttcca cttcacagat gagtggtagg gtcccatcca 39797032  
ggccccatat gcttccaggc cccggggagg cactcagggc cactgcagac 39797082

cctgccttct tggcctgccca gccctgactc ctgggagcgg attcaagggt 39797132  
ctccctgtgg cccaggggtg ggcttaaggt tccacctggg tccccaggta 39797182  
tttactggc agaggccctg cctctctgat catactctgtc ctggagcttc 39797232  
cctgcagggc agtaacaaga actataacta gggcctgttg atggcagtgt 39797282  
catctcccac tggcctgacc ccaggcaggg aagcccaagc acatgtgtgt 39797332  
gtgcacatga agccccaggt tggcagtggc agggagagcc tttctgctct 39797382  
gactggtgct tctcacctct gcagTGTGCA GTCAAAGCCC TCTTTGACTA 39797432  
CAAGGCCAG AGGGAGGACG AGCTGACCTT CATCAAGAGC GCCATCATCC 39797482  
AGAATGTGGA GAAGCAAGAG GGAGGCTGgt aagccagtgg tgtggtaggc 39797532  
ccagagtcca agggccccag tggagctggg gccccaaaga catgcatttg 39797582  
tgatgtgctt gtctcctgtg tgcaccagca gtgcctgcct caccctggct 39797632  
taggcatggg aaccctacc aaaggatacc ctcctcatgg gagttcgggg 39797682  
tggttgctgg aggtcagcac cctgtggctc ccacagGTGG CGAGGGGACT 39797732  
ACGGAGGGAA GAAGCAGCTG TGGTCCCAT CAAACTACGT GGAAGAGATG 39797782  
GTCAACCCCG TGGCCCTGGA GCCGGAGAGG GAGgtaagac cagaaccacc 39797832  
tgagtaacag cattccctat tcccagattc tccttggcat gccccatca 39797882  
cacagtccca agcacgcacg tgcattgaca gacacctgtc acatgggctg 39797932  
gtcgcacagc ccatgtggcc atgcacgtag tctcccatat acctgtgcta 39797982  
catttggcag tcacaggtac accacaaga tgtatttgtc ccatgcacac 39798032  
ggatatcccc tcacacacat atgcagtagc catgctgacc attggtgggc 39798082  
tttgcttccc acagCACTTG GACGAGAACA GCCCCCTAGG GGACTTGCTG 39798132  
CGGGGGTCT TGGATGTGCC GGCTTGTCAG ATTGgtgagc tcccatctgt 39798182  
ttctcttgcc cactgttccc tagggtgaga ttcttctttg tatctctttc 39798232  
ctgctcctag ggaggaagct gatggctgaa ccccaaagtc tgccctcact 39798282  
ccaagctctc cccatgctct ggacatcccc ttgacaccct gggctccctt 39798332  
tgtcactgtc agctttgacc cctgcatggt tacctatgcc aggcactggg 39798382  
gaacccgtca gaatcagcag aacaaagttg atgctgctgg ttggctgaca 39798432  
tccccaggcc taatggggtg taccacaggg atgtgacaga ggcttgaga 39798482

tggggtggag agggagacac ggcctgagga agaagcatga gtcagagctg 39798532  
agttggaaca ctggctccac cacaaccagc agtgacttgt ttgagttgta 39798582  
gcgtcgtcat ctgtcaaatg ggccagcaga gtagtccttc ccctcatggg 39798632  
gtgtgggaag gaggaaatgg gatgagatag aactcatttg agccagtgcc 39798682  
tgcggtgtgg agtggggtgg agggggtgag atgtctattc ccagctgtta 39798732  
tctgctctcg ccctcccagC CATCCGTCCT GAGGGCAAGA ACAACCGGCT 39798782  
CTTCGTCTTC TCCATCAGCA TGGCGTCGGT GGCCACTGG TCCCTGGATG 39798832  
TTGCTGCCGA CTCACAGGAG GAGCTGCAGG ACTGGGTGAA AAAGATCCGT 39798882  
GAAGTGGCCC AGACAGCAGA CGCCAGGgtg agattctgct ggaaccttct 39798932  
ggggggcagt gtgtggccc gtcaggcagc tgaggcctcc agctcccagc 39798982  
acaggccccc tcagagcagt ggggcagccg atggcctatg ctagataggc 39799032  
cacagcccct gccttagcta gggattgaga agaaacagac acataagatg 39799082  
caatgtggtg tgtttaggtt gtgttgagtt tgagatactg atgggtcgtt 39799132  
gaagtgggtc tgcttagtgg gcaattggat acacaagacc agaggtaga 39799182  
ggagaagtcc tgggctgga gaggagtgg agtgggggct gaggcataga 39799232  
agggatgagg tgggtgctgca taggaagaga acttgggatg gattgagaag 39799282  
ctccatatga gaaggcatgg gcgaggaaag gagcccagga aaggcaggtc 39799332  
agacagactg caggccactg gtgagggaga gggctctgctg tgttgagagc 39799382  
tacagaggta aagacaggaa cgataagaac ttgcaagtgc cctttggatt 39799432  
cagcagcagc taatagccct tgtgagactt ttgagctgca tcagcagcat 39799482  
ggctggcatt agatggcagt gggcagcagg gactctgga tggcaaaagc 39799532  
agagcctttg tagggcctgt ccttgagga gagaacaggt gactgggggtt 39799582  
tgagcaggct ctcatgcaga tggctgaaag gagcgagcag cgtgtgggag 39799632  
gagatggagc ccaagcttag ctggtaggac cagccttctg gagaaggtgg 39799682  
cctcttcccc tgagcctggg ggaacagaga agtattctca agggttaggg 39799732  
aattcctact tgggtggcct ttcaccaagt gcatttggtg gatgggtctg 39799782  
tagctgcttt ggagagggca cccgcaagcc aaatagagaa gggatagggt 39799832  
gcttgccagg ctgtccccta gaagggaaaag gtgctggcat accaggtggt 39799882

tgaaggactg gatctggggg tctaggctga aaaggaaga gtctgaatgt 39799932  
aagagccact gaggccgggc gtggtggctc acgcctgtaa tcccagcact 39799982  
ttgggaggcc gagatgggca gatcacttga ggtcaggact tcgagaccag 39800032  
cctggccaat atggtgaaac cctgtctcta ctgaaaatac aaaaattagc 39800082  
cgggcatggt ggccggcacc tgtaatccca gctactcggg aggctgaggc 39800132  
aggagaatcg cttgaaccgg tgagggtggag attgcagtga gccgagatca 39800182  
cgccactgaa ctccagcctg ggcgacagag caagactctg tctcaaaaaa 39800232  
aaaaaaaaaa aaaaaagcc actgaaagaa agtcctccag gagaggatgg 39800282  
gttggggtgc ttgtaagtgg gcttctgtag agatttggca tggagatttg 39800332  
ccatgaagag tgggtgggta tatttgagtt gggggcgctg aggcagtgag 39800382  
gatcatcctt aggacacaga tggaaaccaa gccagggggc tgtatcccca 39800432  
gtgcagtcac aggtaacaca gaagaatcat ttttacccca gcatgaggct 39800482  
gggtaataaa tggtcagaaa gtgtcatttg ggagtgtggc caattccagg 39800532  
atccctggaa ggtcactggg aacatgggtg gtgatgagga gtctgtatcc 39800582  
cccaccccc ctaagagggt tggagggcaa atgtgtcctc tgggacagaa 39800632  
aagaggaaag atgatttcag gatgaggctg aggacagagc tccctcattt 39800682  
actgttgggt gtggtgtctg gaaggtacag gggaaagggtg gagaggggcc 39800732  
cagagcacct gcagtgtggg catgcccagg gttggcaggg gcttccttct 39800782  
cctgggcagg gctgtagcct ggggctacag ggccttgtgt gtgtcaccag 39800832  
**CTCACTGAAG GGAAGATAAT GGAACGGAGG AAGAAGATTG CCCTGGAGCT** 39800882  
**CTCTGAACTT GTCGTCTACT GCCGGCCTGT TCCCTTTGAT GAAGAGAgta** 39800932  
agggccaggg cccaggcggg gtgtgcatgt gcctggaggg cctggtgggt 39800982  
gcaaaaagag tatttaggta tcccccaac acttcctggg tgggcgggct 39801032  
ctgtaagtgt tttccctggt tggcccag**AG ATTGGCACAG AACGTGCTTG** 39801082  
**CTACCGGGAC ATGTCATCCT TCCCGGAAAC CAAGGCTGAG AAATACGTGA** 39801132  
**ACAAGGCCAA AGGCAAGAAG TTCCTTCAGT ACAATCGACT GCAGCTCTCC** 39801182  
**CGCATCTACC CCAAGGGCCA GCGACTGGAT TCCTCCAAC TACGATCCTTT** 39801232 [S1021F](#)  
**GCCCATGTGG ATCTGTGGCA GTCAGCTTGT GGCCCTCAAC TTCCAGACCC** 39801282

CTGgtgagga agtcccctgt gaggagggtg aggaggggca ctgtggggca 39801332  
gctggactgg aatacaccat aatctgcctc ttccagACAA GCCTATGCAG 39801382  
ATGAACCAGG CCCTCTTCAT GACGGGCAGG CACTGTGGCT ACGTGCCTGCA 39801432  
GCCAAGCACC ATGCGGGATG AGGCCTTCGA CCCCTTTGAC AAGAGCAGCC 39801482  
TCCGCGGGCT GGAGCCATGT GCCATCTCTA TTGAGgtggg tgctgctcat 39801532  
ctgggcttca gggtaggaaa ggggctgctt gccgttggag tctgtttatg 39801582  
ttgagttctc caaaagtagg tattttcagg catcaagggtg gtcagggtgg 39801632  
gtggggcctg agctgagtct ttgaaggggt gaagatagca tgcaatcact 39801682  
gtatgcatct aggacgtgca gagccatggt gtgacttggt ctgatgactt 39801732  
gttttgttct gatgagatct ttttttccc taaggggagg tcatttaaaa 39801782  
gatttctgtg ttaaaatagt aatggattta acatgaagta gattgcaaaa 39801832  
ctcacatgga aattttggct aaagctcaga cttcagataa actacaggca 39801882  
gcagctgctc tggacagctt aggtccctg atgtcgtgag ggactccatg 39801932  
ggcagtgctc cgggggcca gcagagggcg cgctgcctcc actccacaga 39801982  
tgctgactga gcctccgag tggggaattg gagggagcag gaaggacaat 39802032  
cccaggccct tctttgtctg cctacagGTG CTGGGGGCC GACATCTGCC 39802082  
AAAGAATGGC CGAGGCATTG TGTGTCCTTT TGTGGAGATT GAGGTGGCTG 39802132  
GAGCTGAGTA TGACAGCACC AAGCAGAAGA CAGAGTTTGT GGgtcagtct 39802182  
gtcttcccag tcatcctcct catcctgctg gggcactgca agcctctccc 39802232  
caccagtcac cccatcctct cccacggtga cctgaagcct tttgtcgttg 39802282  
ccttcacagT GGACAATGGA CTCAACCCTG TATGGCCAGC CAAGCCCTTC 39802332  
CACTTCCAGA TCAGTAACCC TGAATTTGCC TTTCTGCGCT TCGTGGTGTA 39802382  
TGAGGAAGAC ATGTTTAGTG ACCAGAATTT CCTGGCTCAG GCTACTTTCC 39802432  
CAGTAAAAGG CCTGAAGACA Ggtgaggacc attcctggag gcagtgcccc 39802482  
tgcaatcttg ctggcagggg ggggctgggc cccttgctct gtccctcgtg 39802532  
ggctgagggc caggcttttc ctctcctag GATACAGAGC AGTGCCTTTG 39802582  
AAGAACAAC TACAGTGAGGA CCTGGAGTTG GCCTCCCTGC TGATCAAGAT 39802632  
TGACATTTTC CCTGCCAAGg tatctgcagc aggggtgggc tggcctgggg 39802682

taggtgggag gagagccagg cagcagcctc tagaagtgca gaggagtcac 39802732  
tgaccctctt gtgcacctgg cttcgttgaa gCAGGAGAAT GGTGACCTCA 39802782  
GTCCCTTCAG TGGTACGTCC CTGCGGGAGC GGGGCTCAGA TGCCTCAGGC 39802832  
CAGCTGTTTT ATGGCCGAGC CCGGGAAGGC TCCTTTGAAT CCCGCTACCA 39802882  
GCAGCCGTTT GAGGACTTCC GCATCTCCCA GGAGCATCTC GCAGACCATT 39802932  
TTGACAGTCG AGAACGAAGg tgaggaagat ggaggggtgc tagagccagg 39802982  
aaggcagtgg ctaggtcctc cttcttcagt gtttctttct cctgggtaga 39803032  
aaagttgtaa tattgtctgg cattgggctg caaggccctg cctgccagta 39803082  
aggacactct tcccttctgt ccagGGCCCC AAGAAGGACT CGGGTCAATG 39803132  
GAGACAACCG CCTCTAGTTG TACCCAGCC TC GTTGGAGA GCAGCAGGTG 39803182  
CTGTGCGCCT TGTAGAATGC CGCGAACTGG GTTCTTTGGA AGCAGCCCCC 39803232  
TGTGGCGGCC TTCCGGGTCT CGCAGCCTGA AGCCTGGATT CCAGCAGTGA 39803282  
ATGCTAGACA GAAACCAAGC CATTAAATGAG ATGTTATTAC TGTTTTGGGC 39803332  
CTCCATGCCC CAGCTCTGGA TGAAGCAAA AACTGTACTG TGTTTCGCAT 39803382  
TAAGCACACA CATCTGGCCC TGACTTCTGG AGATGGATCC TTCCATCTTG 39803432  
TGGGGCCAGG ACCATGGCCG AAGCCCCTTG GAGAGAGAGG CTGCCTCAGC 39803482  
CAGTGGCACA GGAGACTCCA AGGAGCTACT GACATTCCTA AGAGTGGAGG 39803532  
AGGAGGAGGA GCCTTGCTGG GCCAGGGAAA CAAAGTTTAC ATTGTCCTGT 39803582  
AGCTTTAAAA CCACAGCTGG GCAGGGTGAG AAGCTAGATG CCCCTGCAGT 39803632  
TTGGCCCTGG AGCCAGGGCA GAGGAATGTA GGGCCTGCAT GGAGAAGGGT 39803682  
TCTGCCCTGC CTGAGGAGGA GGACACAGCA CAAGGCACA TTGCCCATGG 39803732  
CTGGGAACAT GACCCAGCCT GAAAGATACA GGGGATCATG TTAAAAATAG 39803782  
CAGTATTATT TTTCTGTCTCA ATGGTATTGT AACTAAGTTA TTTACTCCTC 39803832  
CTGCTCCTCA CCCCTGTAGG GAAACCTTGG AGAGGAGAGT GGCAGGTGGG 39803882  
CTGCCTGCTG TGTTAAGAGG ACTTAGTTTG TGATGTAAGG CACTGTCAGG 39803932  
AATGGGGGGC GGGCCAGGGT GGAAGAGAA GAAATAGCAG AGCCTATTTT 39803982  
GGTGAGGTTT TTTGTTTTTA AGTCAAAGAA GACTCAGTAT GCTTTCCCTG 39804032  
AGGAATGAAA AAGGGATTGA GGAGTTGCCCT GACTCCTGGG TGGGTGGGGT 39804082

ACAGGCAGTT AGGTGCTGAA TGAAGCTGCC ATCCTTGCTG CAGCTTCTAA 39804132  
CTGGTAAAAA GATCCAGGGA TGGAGATGGG AAGGTTAGAA AGGCAGCCCT 39804182  
CACCTCTGAG GACAGAGGCC GGGGTCCAGG CCCGTGGGCG CAAAGGTGCC 39804232  
TCATAGCATA GCCAGCATTG AGCACACACA AACCTACTGC CCACATTTGG 39804282  
GCTCAGGGTT GGCCATTTGC TAGTTCCTGCT GCCCTCTTAA GATCTGACTG 39804332  
CCAAATAAAT CATCCTCATG TCCTTTTTCC TTTGACTTGT ATGCTCTTTC 39804382  
GGGGGCTCAG GAAAGCCTGT TGCATGGGAC ATGCTCACTA GAAACAGTCG 39804432  
CCAGATGATT ATTCTGCAGT AGAAGCAGGT AGGAAATTC TGGAAATTC 39804482  
TCAGGTTAAG CAGCAAGAGC TGTAACCCCT CCTCTGGGCT AACAGGAGTT 39804532  
GTGGGTCCAC TCTCTCCTGC CCACCCTCTG AGGGTGTGTC TGAGCAGAGT 39804582  
ACATCCTGCC TGGGTTCTTT GTGGCCAGCC AGTTTTGGTG GTGAGCTGGA 39804632  
AACAAACCAGA GCCCCTTTC AGTTCACAG AACCTCTCC TTTCAAAAAT 39804682  
GTTGCATTCA GTTCGTTAAC ACTGCCAGGT GCCATTCTGA TTGCCTCTAG 39804732  
GACTTGGCAG CTGAAATCTC TGGGCCCTTT CAACACAGTT GAAAGGCCCT 39804782  
TCTCTTCCTG AAGCTCTGTT TCCATAGTTG GCTGTGCTGG GATGGAACAA 39804832  
AAATGACGCC ACACAAAAA TTTAAGATAG ATCCGGTTC GTGGATGACA 39804882  
TGAAC TGATG ATAGCCAGTA TCAAACAGCG ATAGTGCTCA GGTTCTTGTG 39804932  
TGACTTTCTT TTACAGCTTC ACAGTCCCAG TTCATAGAGA GGAGGGTGGC 39804982  
TTTTTCCCAT ACACAAGAAG GTGGTGGGTG GGAATTCACC TGGGCCCTCA 39805032  
TGATCCATGT TTCTCTCTA GGTTTTTATG GCCTGGAGAG AAAGGTTTCC 39805082  
TATCAGAGAA GGAAGAGGAC TGTGTAGGCC CTTCTGTTAG GGCCATCCA 39805132  
CGTTGGTTAG GACGTCCTTG GCGTGTTTGT TAGTGTGAC CCTTTTAGTT 39805182  
TTCATCAATA CGTATCTCTA TTTGCTGAAC AAGTGTCTTT CTGGAACACA 39805232  
ACCTGGGGAA CAGACAGCTC TGCCTTCTT AAGGCAGCTT TG TAGACCTG 39805282  
AGGCTCACCT CTCTGGGCT CTGTAAGACA TTGCCTTTC CTCACTGCAA 39805332  
ATGTTTTGAT TGTTCTTCCT AGTGGAAAAC GTGCCAACTC TCAAGCAAAT 39805382  
TTAAAGATCA TTTTCAC TTC AAGATTCCTC CAGACCTGAC AAATGTTGAT 39805432  
TGACCCAGAA GGCAGAGTGT TTGTTGGTGG GGAAGACCCT TACTTGGGGC 39805482

CGAATGCTTT GGCATCAGGA GTTGTGTTGCC CCATCCCATG CATGCAGGCC 39805532  
GTGTCCCTAC AGTGCACAG CTCAGGGTTA TGACCTGTGG AGTCTCAACC 39805582  
CTAACAGCAC ATTAGCACCA CTTGGGGAGC TTCTGAAAAA TACTGGTACC 39805632  
CGGGGCCTTA GCATAGGTAT TGTTCAAAAC CTCTCAAGGT GATTTAAATG 39805682  
AGTAACAAGG GTTGAAAAAC CCTGATTTTG GCAGCACAAA CAAAAGAGC 39805732  
AGGCAGGGCC GGGAGAGGGA AGTCAGTGGT ACCAGAAGGT AGATGGGCTC 39805782  
CCTTGCAGGC TCCTTGTTCCT CTTGCCATCA CCAGTAGAAC CTTCTGGCTG 39805832  
ACAGACCAGG GACAAGTAGA CTGGGTCAA AGTGACAGAC CTTTCACTTT 39805882  
CAACAGCTTT GGCTCAGCAG ACATGTACAC ATACAAAGTA GAGCCTACAA 39805932  
GGTCAGGGGC ATTCTGCCCC CGCCACAGGA CTAAAGACTG CCCTGCGGGA 39805982  
AGATGGCAGG AGCAGTTTCT GACCTCAGTT GAGTATCTGT GGCCATGAGC 39806032  
AGAAAAGGCA GGGGTCTGCC TCCTGACCAA GCACATCTTG AACATCACCT 39806082  
GAGAGCTTGA ACATCACTAA GGACCTAGAC ACTCACTTGT CTTTCACTT 39806132  
GAGCCCATCA CTCACCATGT GAGTTCGTGT GAGGGTGGGT AGAAAGCAA 39806182  
TAGGTTTCAGG TTATCCCACC AGACTAACTC GGTGAATGAA AGGATCATGC 39806232  
CTTCTTCACA TTTTAATTAA ATGGATCAAG CACAgtctca gactgcaact 39806282  
cctgtcttct ctgggtactt tagtaattcc caggggactt gtgcttaggg 39806332  
gttaatctag gcattctggt ccctgcctgg aggaacccca cagcaacccc 39806382  
cctggctggc cgctcctgcg aattccaccc atagtatccc aagtgagtca 39806432  
ctgcctgagt ctaccacta cagcattcag ctgattggct ttgccagttg 39806482  
catgccagtt tggctctagtt tccaaggacc tggtttttgg gattcaacac 39806532  
acacagctgc ttccccatga cataagctgg actcctatc tgggtgtocag 39806582  
aatcactgcc tggctccact gtaggtgatt tcatttcaaa ggaccctttt 39806632  
tccttctgtc ccaggccttc agggccaccc caacaaaatt caaatgcttt 39806682  
gggtcttaga agctggggct ttagtctttt tcctccagaa agcccctggg 39806732  
tccttatgca tattccctaa cccccgacac cgccccagca aatgacaggc 39806782  
tatgcttttc agcactctca caggaaacag aaaagaactt gccagtgtcc 39806832  
tctcaccaga tgataccagg tttgactggt tgcctttgtc tatttagcat 39806882

aatttctaaa atatcatagt tttctcatgt agaagccagt gtggtgatct 39806932  
cagcaatgca gaagacagtg agttggaact tctctggtga gctgagggaa 39806982  
actgccccac tcatccactg gagtttaaga tccacagaag tgggcaagaa 39807032  
caagtgaaat gtttttggct ttttctga ctccccaca aaataagtca 39807082  
gcagatgtga aatatattta tgtttttatt taggaataat caaaaggttt 39807132  
gaagtacat tgaggccat ttcaaattgt acaagcaatt tgtccgtgtt 39807182  
cccctccctt atccaaatcc acagatacaa aatctaggaa atgtgcaatt 39807232  
tgcattctag aaatagcagc atccccacag ggga

*PLCG1* (NC\_000020.10, GRCH37) - gDNA - 2026-02-28

