



ADAM17 (NC_000002.11, GRCh37) - gDNA - 2026-06-16

cgtattatgt cctactttta taaactttgg ttgaactaaa taaaacagca 9696910
acatgtaccc aacgttttta gactgtttta ttcagtacca taaacattca 9696860
ctaaactata cagagctaaa atcatgcaaa agattgcaaa acaaactgcc 9696810
ttgggaaatt tccagtctaa gctaaatgga ccaagtatag gattgaattt 9696760
taagaagttg gtgggaagat tccagctctt gtactcacag gtaaggtcct 9696710
aggattctat ttgttgaagt gtctgcagac cctctcccta cagcaggggc 9696660
gtggagcaaa tgtgcattca ggaagtgctt attagtcccc ccaaacctt 9696610
tttcgtgacg acagacggat ggaggcctca gacgactccg gcagtaggac 9696560
cctgaaccaa atgcctgagc tgcgctcгаа aggctcgtct cgcaggagct 9696510
ggcgagtggc acgggcttcg gtggccgggc tcggggctcg gggctcgggg 9696460
cccggggccg gggggggcgg ggggtccgtg cccagggcac tctgtggctc 9696410
gattcatgtc cccgccctcc cacctgagca cactgggcag agagcctgcg 9696360
gcacggggcc agtcgcgct cctcgtccgc cctgggcagg tcgctgggcc 9696310
ccaggccgct ttctacagct cctttaataa aatggacagc aggggtccta 9696260
accagacgtg ggcatcaaga caaaggaggc ggccagacgc gcttgagggc 9696210
ctgctcgcta gctcccgcc cccattccg cggtcacccg gggacagagg 9696160
ccaggccgga ctgggtggag ttgggactca tacgtctgcg tccaggaagg 9696110
cgccgggcca gccccagcta gacgtgacgg gcggggccga acacggcagc 9696060
ggaccagagg cccgcggcgc accggcgtgg ggcggggcaa gcggagcctc 9696010
ccgggatgcc gcgcggcagc cggcttccgg ctgtgggtgg tgcgggggac 9695960
AGCGGCGGCC GGAAGCTGGC TGAGCCGGCC TTTGGTAACG CCACCTGCAC 9695910
TTCTGGGGGC GTCGAGCCTG GCGGTAGAAT CTTCCAGTA GGCGGCGCGG 9695860

GAGGGAAAAG AGGATTGAGG GGCTAGGCCG GCGGATCCC GTCCTCCCC 9695810
GATGTGAGCA GTTTTCCGAA ACCCCGTCAG GCGAAGGCTG CCCAGAGAGG 9695760
TGGAGTCGGT AGCGGGGCCG GGAACATGAG GCAGTCTCTC CTATTCCTGA 9695710
CCAGCGTGGT TCCTTTCGTG CTGGCGCCGC GACCTCCGGA TGACCCGGGC 9695660
TTCGGCCCCC ACCAGAGACT CGgtaaagac ccaggggagt tggcttaggc 9695610
cggcgcctgg agcgcctcgtt tgagggaaaga gcaggggagc tgggtctatc 9695560
aggtgtttgg gggcggggta ttggcgatgg tggcgcgtcc ctaagttttc 9695510
agtgtagaag ggggtgtggc tctcggagtt tggggaaaga ataaaggaga 9695460
tgggcctgtc tctgagtggg aaagggctac tggacgggct ccatgtagtg 9695410
actgagcgc c tgagaggggt ttgctcccta gctttgtgtt cggggaggggt 9695360
gttgggaaag cggtaaggag tagggtggct ggatcttggt tggagagggga 9695310
gatgtggtca gggttcttgc cttagtaggg aacaaatcta gtgttgtgtg 9695260
ttcctaccag agccagaaaag gaagggcca aagctccaga attcttctctg 9695210
gtcctcgaag gagggaaacta gaatttctgc tgtaggaggt acttatgcag 9695160
taatctcgtt gggaggcggga gactggagtt ggagtcttaa gagttgtgtt 9695110
tttgcgaaca tcctaagcac gttcttggtt atttcaattg tagcttattg 9695060
gaggtgcttg ggagatgggg ggaggcggaa acctggtaag ccaactcgtg 9695010
atgctgccac tatgaatgct ttccttgcac ttttaaacia agaaattatc 9694960
aagagtgacg agtttgatga atttagaggc tagaaagtag agggttccta 9694910
tttcattaga ttttccagag agattggatt ttaaggatgg agatgcatta 9694860
agggatctga actttgggtg aagtaagttt gcgtgaactt ttagtgtatt 9694810
ttaaaatcct tttatctttc aaaaattgac gtgtaagata ctttaattag 9694760
taataaagtg tgaataaatg ttttcccagt gtgtgaaatt gtaggcttgc 9694710
atggttgta c tggttcccaa atttcacat gataccatgt gtagtatttt 9694660
ttttctttat atttagtggga cagaaattgt aatggattgg tatggatact 9694610
aaaggtggtg agagtgttat cacttgaaca gctgtcttat gattctttcc 9694560
gattgaaatg gattacaagt gactaatgaa aggcaaggga tcttgtagg 9694510
aagtgcctgag aagtggtaag tcagtacaaa ttgaaggaca ttttgaggta 9694460

ggattgtggt taggatggag ggataggga aggtcttca ttttaaggat 9694410
aaatgttagt aaaaagaata aatatgtatt ttgagatatt aaaattatat 9694360
ttgcaccacc ctgacacaac tgtttcactt atgttattaa tctgttggtc 9694310
gtaggtaaaa ataagcatga gtcccaagga agcatacagt ttaaagagaa 9694260
acattacttt ctagatcaat tcataacatt tgcagatcgt aaggtttttt 9694210
agaccatttt ttttttcaa gacagagtct tgctctgttg cccaggctgg 9694160
agtgcagtgg cgcgatctca gctcactgca acctccgcct cccggggttc 9694110
aagcagttca cctgccttag cctcctgagt agctgggatt acaggcatgt 9694060
gccaccacgc ccagctaatt tttgtattcc tagtagagac ggggtttcac 9694010
catgttggtc aggctggtct agaactcttg acctcgtgat ccgcccacct 9693960
gggcctccct aagtgctggg attacaggca tgaaccaccg ctctggccc 9693910
atgtgtttgt tttttatttg caaaatgcag accacctgtg ccagaagaat 9693860
gcatagactt ttcttttttc ttttcttttc tttttctttc tttttttttt 9693810
tttttgaggc agtgttttgc tcttggtgcc caggctggag tgcaatggcg 9693760
tcatctcagc tcaccacaac ctccgcctcc cgggttcaag caattctcct 9693710
gcctcagcct cccaagtagc tgggattaca ggcatgtgcc accacgtccg 9693660
gctaattttt tgtattttta gtagagatgg ggtttctcca tgttattcag 9693610
gctggtctcg aactcctgac ctgaggtgat cagcacacct cggcctccca 9693560
aagtgctggg attaaaggct tgagccacca ggcccggcct cttttttttt 9693510
ttttaaacga aatatttgaa ggacacacaa gtattatacg tggcattgga 9693460
aatacaaaga tcagacgata tccatcttca aatgggtata gcatagggaa 9693410
atagacattc atttaggaca cttctaaaac agcatagagg agagtgctag 9693360
agtacgttat agcaagtgtt atcaccaaat gaatcttaga gatcaagtct 9693310
agttttcaaa taaaggagga ggaaaatgag tctcaggaag atgctgtcag 9693260
ttgtcaatga tgaacatagg ccttggtgggt atttttcttt tgaagaatga 9693210
cttttttttt cagtttggtt gacagcttac aatataattt gttacttaac 9693160
cttaccatta gattgagttg gtcaagacta gcaaatagtt tcatagttga 9693110
aaaacatgct ttattattta ttttttatgt ttattgtcct acaaatacta 9693060

ctatattgca gtactcaata tcgattaggc atatgacaac atttttctga 9693010
aaggcaaaaa ataccttaata aatgaagcc tggtttttag agtcctctat 9692960
gggtcaccaa aatgatttc aattgaactg ttatgaattg cataatttag 9692910
gaaagttatg agtcatatga gcttagtcat gatgatctct tgttgaagtt 9692860
gcagctgggg tgtataagtc tcactttgat ttcaaaatcg tttcccttt 9692810
gtgttacttt taataaaaga ggatgtagtg ggtgggagga aaaaatatag 9692760
gtcacagatg agggatgaga aagtttgtat ctgaaacatg tattttcaaa 9692710
tttaccttga ggttattggc atggggattc tccatattgc agtgctgatt 9692660
tcattattga cagcaccatt ttactcagta ttttgacatc tggctttctc 9692610
ttttgatgtt aattttgctt actggctgca ttcctttgaa acctaaatgc 9692560
ttaactgcc taactgctcc aaggagatt taatgtaact ctgctttata 9692510
ttagtctaag agataaacca tatttcaaga gtagaatgga gaggaattaa 9692460
gcagataatt gtgatgggga aactggagag atccttttga ctttcacagg 9692410
atctcctaga acattaaata taggtttcct ccaaggccaa ttgtggttga 9692360
tttttggatc cttcaccatt ttctatttgt gagataataa gtgtatacag 9692310
ctggaagtgt aatgtgaaga aagtctgaaa aagattgata ggaaaggagg 9692260
acaggaatgg gcttcattga ggtaacggaa gtgaaatgaa aggcttttca 9692210
tatatgggtt gagcatccct aatctgaaat gctccaaaat ttgaaacttt 9692160
ttgaatgctg gcatgacagc acacattacc cctaacacac gattttttca 9692110
ctgttagtgg tatatTTTTT actgtgtagt acttatgtgt gaataggtat 9692060
aacaaaacga ttacttattg tagcatgtaa aatcagtcag gaatgatggt 9692010
gatgccagac aaccacagat tatttatgtg ggtggccgag acagtgacac 9691960
ctttgctttc gaatgcttcg ttgtacacaa actttttttc atgcaaaaaa 9691910
agttacttaa aatattgtt taggccaggc gcggtggctc atgcctgtaa 9691860
tcccagcact ttgggaggcc gagctgggtg gatcacgagg tcaggagatc 9691810
gagaccatcc tggctaacat ggtgaaaccc tgtctgtact aaaaatacaa 9691760
aaaattagcc aggtgtggta gcaggcgcct gtagtcccag ctactcggga 9691710
ggctgaggca ggagaatggt gtgaacctgg gaggtggagc ttgcagtgag 9691660

ccgagatcgc gccactgcac tccagcctgg gcgacagagc aagactccat 9691610
ctcaaagtaa gtgaataaat gaaacataaa tgaattttat atttagactt 9691560
gggtcccatc cccaagatac ct cattatgt atatgcaaat atttcaaaat 9691510
ttaaaaaatt ctgatgaatg aaacacttct ggtctcaagc attttggata 9691460
agggatgctc aatctgtatc tctttattta ct cctaaaaat cagccaagga 9691410
aatgggcatc tctccgttcc ccccttccct tttttttttt tctttgttgt 9691360
tacatgagtt gtactggttt cacttcattt gacagtgttc tgctaatagac 9691310
tagacgtgta tctctgacct ggacttgttc tctggagttc atattcagct 9691260
gccatttgg cacttcaaat ataacatgtc caaaattagt tacctttttt 9691210
ttttttttga gacagagtct cactgtcacc caggctggag cgcagtggcg 9691160
caatcttggc ttactgcaac ctccacttcc caggttcaag tgattctcgt 9691110
gcctcagcct cacgaatagc tgggattaca ggtgtcccc accacgcctg 9691060
gctaattttt tttttttttt tttttttgta ttttttagtag agatgggggtt 9691010
tcatcatatt ggacaggcct gtgttgaact cctgacctct ggtgatccac 9690960
ctgcctcagc ctcccaaagt gctgggatta cagacgtgaa cactgcccc 9690910
agccagttac ctattctttt gattacaaga atgagtagct ggacacagtg 9690860
gcttacacct atagtcccag cactttggga ggctgaggcc ggcggatgac 9690810
ttgaggccag gagttcaaga ccagcttgac caacatggtg aaacctgtct 9690760
ctactaaaaa tacaaaaatt agccaggcgt ggtggtgcgt gcctgtaatc 9690710
ccagctactg gggagactga ggcaggagaa ttgcttgaac ccgggaggca 9690660
gaggttgacg tgtgccaaag ttgagccact gcagtgcagc ctgggcagca 9690610
gagtgagact ccatctcaaa aaaaaaaaaa aaaaaaaaaa agaatgagta 9690560
tcggatacag gtttagccta ggactaggca gggctgctgg taattgtgga 9690510
agtagtctca ttgcctaacc tgaaacttgc atcctggtta ctggtcttgc 9690460
tggagagtct tggctcaggt tacgtcccag gtctgttgag gagctcttga 9690410
tagggaatta gttgaagcag ct cactactct atcctccttt actggtataa 9690360
atccataaaa ttgttttagtt cccaggctct ggggtccctg gcctagcaga 9690310
gagcactgct ccctttttct cattccttag tcccaacaac ccgcacctga 9690260

cacttactac acgtggcctg cttccctgtc ctgtgtgttt tggggggtgc 9690210
tgaagaggaa ggctcctgtg tcttcagcac aaacacaata aacacttcac 9690160
agcagtactg gctttatgtt ttccatttct gatatcagaa gtaggagcat 9690110
gacattgata gtgtcatttt gggggaactt ttcgtacttc atgcagcaga 9690060
gcagtgaaga gtgagctgag tgccttgggg ttctgcagta cactctcaag 9690010
tagtatttta ggaaaatgca atttgctgaa aaaataaaaag aaattaatgt 9689960
aaaaaatcca caagctgggc gcggtggctc acgactgtca tctcagcatt 9689910
ttggaaagct aagggggaag gatcacttga gcccaggagt ttgagaccag 9689860
gctgggcaac atggcaagac cttgtctcta caaaaaaata gaaacaaaaa 9689810
ttagccaggt gcggtggcat gtgcctgtgg tcccagccac ccggaggatt 9689760
gctcatgccc aggaggttga ggctgcagtg agtggtgatt gtgccctgca 9689710
ctctagcctg agcaacagag cgagaccctg tctcaaaaac aaaacaaaac 9689660
aaaaaccac acgtttccag aaccttctca tataacactt tatttacatt 9689610
gttcttaaat acgtgtggga cggttatata catacacta tacttatgtg 9689560
tatatatgtt gatatacaca caaaattata tacataattt ttgtttgttt 9689510
gtttttgaga tggagtctca ctctatcacc taggctggag tgcagtggcg 9689460
tgatctcagc tcactcactg caacctctgc caccgggtt caagcgattc 9689410
tcctgcctca ggcttctgag tagctgggat tacagggtgcc tgccaccgcg 9689360
cctggctaata ttttgtattt ttagtagaga ctgggtttta ccatgttggc 9689310
caggctggtc ttgaaactccc acccttgtga tccaccacc tcggcctccc 9689260
aaagtgcctgg gattacaggt gtgagccact gtgacctgcc atatacataa 9689210
ttttttaaag tttcacgatt agtttttagct taaaaatgtc agctctgggc 9689160
ttaatgaaga aatatggat atactttatg tcaatgcatt aaagtgaatg 9689110
gccataaaag cttatcccag agacaaaaca attcagatat aagagaagtg 9689060
ggagagtggg aggtttatct aatcttctgt aggcaactcc acagctacaa 9689010
ccagaaggcc attttgttac aggcctgaaa gccccgtttt ctttttattc 9688960
ttctttgaaa cctttagaag gaacaaagta ttggctactt tttaccgctg 9688910
atgtcagtgt taagaatctt gtgataacat agatttactc tccctgctga 9688860

aaatcactat gtggctcatc agtaacacaa ctagacatga tgacttaatg 9688810
caaaggaagt cctatgtaaa tgagcaatga aattgcaact gtgtataagg 9688760
aacaaaatag aatatgaaac tccagaatct tttgttttca tttctgtttc 9688710
tccaaggct ctatcattca aaactccaga atctttcagc atgcaattgt 9688660
ctcctgatat cagcccctct cttgttttgt tttctttttt ttttttttaa 9688610
tcacagtgag ccacaaccta ggagtctttt agtggtttct acttggtttg 9688560
ctctgcagcc taccagcaga tttcctacat tccggtcttg tccccctcta 9688510
gccattctc cacactgcag tcataatgaa atttctttct tttttggggg 9688460
ggatggagtc tcactctgtc acccagggtg gagtgcagtg gcatgatctc 9688410
ggctcactgc cacctttgcc tcctgggttc aagcgattct catgcctcag 9688360
cctccaagt agctgagatt atacgcacct gctaccacgc ccagctaatc 9688310
ttgtatTTTT agcagagaca gggttttgcc acgttggcca ggctggtctc 9688260
taactcctga cctcaagtga tcgcccacct tggctttctc tctctttttt 9688210
tttttttggg ttttgagaca ggatctggcc tcgttgcccta ggctggagtg 9688160
cagtggcacg atatcagctc actgcaacct ctgcctcctg agctcaagcc 9688110
atcctccac ctccagcctcc tgagcagctg ggactgcagg tgtacaccac 9688060
cacgcctggc taatttttgt attttatttt atttattttt ttggtagaga 9688010
cggggttttg ctgtgttgcc caagcttgtc ttgaactcct ggggctcaag 9687960
cgatctaccc atcttggcct cccaagggtg tgggatgaca ggcatgagcc 9687910
accacagctg gcctataatg aaatttccaa cttacagcta ttgccattat 9687860
ccaaagccca gaatccctga tttccttcca tagcccttca tggcctgacc 9687810
agtgcctgac tctccagcct cacacttcat attctctctg tactgctctg 9687760
cactgtagcc tcattgagtt gctttcacgt ctttaagtgt tgtgttctat 9687710
tttttggtga attcagcata tgttatgccc ttgacctaaag gcctctcctt 9687660
tcttttcctt ctctgggggtg ctgcctcatc cttctggtct tcaaaaccgt 9687610
ttccctggga aaacatcttt gactcagcag gcagggatca tgcccctgct 9687560
gtgtctgtgc ataactttct gtggctactt ctgtcttggc ctgtgatgta 9687510
ctttataata attttggctt ttcctccagt gtcacaatac tggaagtctg 9687460

tttctttttc tctgtgttgt atccttagtg cctgaaaggt aggaggttct 9687410
caataaatat ttgttaaata atcaagtaaa tggagtctgg tggaaaagag 9687360
aaaaaataag tgtagaatgt gtgtgcaaga aaggaggggt agggggatga 9687310
aaaagataac aaaagcacat aacaaaacaa caaaaagcaa aaacaacaaa 9687260
aaatgcagat gacaaaaaag ataacaaaat gatgactgct gtggcaactt 9687210
gtagaaagta aggaaggtgc tctcattcta gagagaagta ggagccatt 9687160
gtagtttttt aaagagagaa tatgggctgg gctctgtggc ccacgcctgt 9687110
aatcccagca ctttgggagg ccgaagtggg tggatcacga ggtcaagaga 9687060
tcaagaccat cctggccaac acagtgaaac cccttctcta ctaaaaaatac 9687010
aaaaattagc tggataggtg gtgtgcacct gtagtcccag ctacttggga 9686960
ggctgagaca ggagaatcgc ttgaaccag gaggcggagg ttgcagtgag 9686910
ctgagatcac gccactgcat tccagcctgg cgacagagtg agactccatt 9686860
tcaaaaaaaaa aaaaagaata tggccagaca ctgagctgag atagacagtg 9686810
cggcagtgtc tggattaac tgtaataaac tctactgtca gaagcaggtg 9686760
gtttatactt aagtttattg agagaattgg atatggataa gagataaact 9686710
cttgggaaat ggggagaaat ataaattctg ttgtaaagcc tgtaaaaaat 9686660
tgagattact agtggttaga attttggag tgaagtgcag tgaatatattg 9686610
agtacctgag aggttacttg ttagtgaaaa cacaatagca gtagtacgta 9686560
gctacagttt ggctccaaag gaagaactgt ttttactata gtttgtaatg 9686510
gcttcagaat cttcaatttg agatatccag ttattaaaag agaatacaat 9686460
gcagttgaaa tgcattagtt aagtatttta aagtgcttta gcaagctaca 9686410
tttaaaaagt gcttattata gaaaatatac ccaaaaataac caatgatggt 9686360
actgtcttgt gcttattttt tctagaccta tttttataca tagttaagat 9686310
tatacaatat gaatatttct gaaatctata tttaacatta taacatatgt 9686260
atthttccat gttctttctt tttttttttt tttgagactg ggtctcatcc 9686210
tgtcacccag gctggagtgc agtggtgcta tcttggctta ctgcagcctt 9686160
gacctcctgg gctcaagtga tcctcccgcc tgaaccttct gagtagctga 9686110
gactacaagc acatgccacc atgcctggct aatthttattt ttactthtttg 9686060

gagagatgag ggtctcacta ttttgcccag gctggtctcg aactccttgg 9686010
gtcaagcaat tctctcacct tgacctcca aagtgctggg attacaggag 9685960
cgagccaccg ccctcagccc catgttctta aaaacctttt gtgaacgaca 9685910
tttaaaatag ttgcagattt tttcccctgt ctttggaagt gttacaacat 9685860
ccaaccattt cacagttact aatttaccat cattctgggt tttgtccttg 9685810
aaaataaggc aaggctgaat aatgaacatc tttgtggcta aagttttttt 9685760
ctttactttg agttgttacc ttccttttagc ttagttcagt ggttttttct 9685710
ttttcttttt tgagatggag tcttgccttg ttgccaggc tggagagtag 9685660
tgggtgtgatc tcggctcact gcaacctccg cctcccaggc tcaagcagtt 9685610
ctcttgccctc agcctaccga gtagctggga ttataggcgt ctgctgccat 9685560
gccagctaa ttttttgtat ttttagtaga gacagggttt tgccatgttg 9685510
gccaggctgg tcttgaactc ctgacctcag gtgatccacc cgcctctgcc 9685460
tctccaagtg ctgggattac aagtgtgagc caccatgccc agccagttca 9685410
gtgattttca tatttgagtg tgtcagcctt gcctggaagc cttgttaaac 9685360
acagactatt ggatcccact gggcggattt ctgtttgagc aggtctgagg 9685310
ggagacctga gcatttgcat ttttaacaaa ttcccagttg atgatgatgc 9685260
tgctggtttg ggaactacac tttgagaact actgggctat attattgaca 9685210
atgaaactat aatgttgagg ttaagttcct aagtcagtag gagtgattat 9685160
gatcttgaat gaaactgagt tcatgtacca acctgtatca gggaaattga 9685110
agaactaaag gaccatattg catttcagca ctgagaattc gtgcagtttg 9685060
tgaacatgtg agtgctgata tgtgcaaggt ttttgctgag tattgtgagg 9685010
caaggatggt gtaatgaata aaaaatagcc ctttttggct ttttttttct 9684960
tcttttgaga tggagtcttg ctctgtcgcc aggctggagt gcagtgatgt 9684910
gatctcagct cactgcaact tccgcctccc aggttcaagc gattcttctg 9684860
cctcagcctc atgagtagct gggactacag gtgcccgcca ccacgcctgg 9684810
ctaatttttt gtatttttgg agagactggg tttcaccatg tttgccagga 9684760
tggctcctat ctctgacct tgtgatcccc ctgccttggc ctcccaaagt 9684710
gctgggatta caggcgtgag ccaccgtgcc cagcccggcc ttttttcccc 9684660

cgcttagaga tggagtcttg ctctgtcgcc caggctagag tgtagtggtg 9684610
caatctcagc tccttgcaac atctgcctcc tgggttcaag cgattctcct 9684560
gcctcaaact agctgggatt acaggcatgc accaccatgc cgggctaatt 9684510
ttgtatTTTT agtagagaca gggtttcacc atgttaatca ggctggctctg 9684460
gaactcctgg cttcagggtga tccttggcct cccaaagtgc tgggattaca 9684410
ggtgtgagcc accatgcatg gcctcatttg ggaaactttt gatatcagaa 9684360
tcttaggttt ttcattagag attgtcagat ttccatattc ctctggaagg 9684310
taaaggccta attgctagca ttctggaagc cagttagggt aggaggtag 9684260
gagggtaggg tattgggtag aggataaaga aggggtttgg gaaaggtggg 9684210
gggtgtctct tggcagttgt atggttaaat tgagtTTTT ttttatttag 9684160
tgatatgtgt tttttgggta catgtgatat tttgatacct gtgtataata 9684110
tgtagtgatc aaatcagggt gattgggata cccatcattt gaaacatctt 9684060
ttctgtgtta ggaatattac aagtcttcta gctgttttga agtatacaat 9684010
aaattgttaa ctataatttc tgtactgtac tatcaaatat tagaacttac 9683960
taatcaaact gtatttttgt aacactaacc actttctgtt catctccacc 9683910
actcccactt cccttctcag cctctggtaa ccaccattct gctgtctacc 9683860
tccacgagat ccactttttt agcttccaca catgagtaag agtctttctt 9683810
ttaaactgg ttttgtgagc atatttaaca tcagtagcaa taaacttcta 9683760
ttttaagctc ctgttgctgt attttgagga ccttctaagt ccattggaag 9683710
gattttgaat accatagtgt ctgcagtgat agttgttgaa agaaagggaa 9683660
ggcatcagtg caaatatttt tagacagttt ttaaagagac tcaagtcacc 9683610
caatttgtct tctaaaaatc ctgattttgg aagaggcagt ggagtttctg 9683560
ttgataaaaa atgatttata gtttgtgctt ggcacttcct aatggattac 9683510
atcaggaaag atttattgtc tggcactctc attttaacga tactacaatt 9683460
gattattagg tttagatgct aatacctttt ttacctttat ttcagAGAAG 9683410
CTTGATTCTT TGCTCTCAGA CTACGATATT CTCTCTTTAT CTAATATCCA 9683360
GCAGCATTCG GTAAGAAAAA GAGATCTACA GACTTCAACA CATGTAGAAA 9683310
CACTACTAAC TTTTTCAGCT TTGAAAAGgt aatttgaatt attcatggaa 9683260

taatgttggg gcactggggg cttggtttgg caaaaacaaa aaagtaaggg 9683210
tatctactga aatcttggga aattacattt taaagatttg taattaattt 9683160
ccagtataat gcttattcta aaattcatac tggggctggg tgcagtggct 9683110
cacgcctata atccgagcac tttggggggc caagacatgt ggattgcttg 9683060
agctcaggag tttgcccaag ctcagcctgg gcaacatggc aaaaccccg 9683010
cttactaaa agtacaaaaa ttaggcatgg tgacacgtgc ctgtaatccc 9682960
agctacttgg gaggctgagg caggagaatc acttgaacca gggaggtgga 9682910
ggctgcacta gccgagatgg tgccactgca ctccagactg ggcaacagag 9682860
tgagactctg tctcaaaaaa taaataaata aaataaataa agttcatact 9682810
gatgagtatt tttaaaaaag taaatagata ttgcagaggt gttaatgatg 9682760
gtaacgatgt ttagaaaatt ctaacataat ttaaattaat tgaatgctta 9682710
taaaaccttt tgtttttggt gctactttat aacctcaat catgtgctaa 9682660
atattatctt tatatatgaa gagataaaga ttttgttcag gacccacag 9682610
cctggtggtg agctgggtct agattttact gttctattta tttatttagc 9682560
taactagtta cttagtttcc aggattcttt aacctgcttc atatttattt 9682510
atTTTTTaaa acagggtctt gccatggtgc caaggctgat ctggaacttc 9682460
tgggctcagg tggcttttcc atcttggcct cccaaagtgc tgggattaca 9682410
ggtgtgagcc accatgcctg gcccaaattt aatattcttt ctacattgag 9682360
ttcctcttac ttcttagcat aaattgatgg atatgttcta tttcagtagt 9682310
aattttaata ccacgtattg ttttgcacat tgaaatgta aataattgca 9682260
ggcctctttt taaagtcttt aggaagcttt attcagtatc aaaaaacaga 9682210
cacatggaga attgactgaa ttattcttta tttatttatt tttttgagag 9682160
tcttgctctg tcgtccaggc tggagtgcag ttgtgtgatc ttggctcact 9682110
gcaacctctg cctcctgggt tcaagcgatt cttgtgcctc agcctctcaa 9682060
gtagctggga ctacaggtgc acagcaccac gcctgggtga tttttgttat 9682010
ttttagtaga gacagagttt caccatgttg gccaggctgg tcttgaactc 9681960
ctcacctcaa gtgatccacg atctcggcct cccaaagtgc tgggattaca 9681910
gacaggggcc actgcatctg gccatcttta ttctttatat aggacaagcc 9681860

ttctcaacta tgttaaaaaa taaaaggaat atgtgctct ggttataaaa 9681810
acaagccatg gaggatagc aaagtthtta cttctaactc agttagactt 9681760
ctcagacca gagaggthtc ctttgtaaac ttccaatttt ttgttttggt 9681710
ttgttttttg ttttttgaga cagagthttt gctcttgctg cccagactgg 9681660
agtgcaatgg cacgatctta gctcactgaa gcctccacct ctcggttca 9681610
agcagttctc ctgcctcagc ttcccagta gctgggatta caggagcca 9681560
ctgccatgct cagctaattt ttgtattttt agtagagatg aggtttcacc 9681510
atgttgcca ggatggtctt gaactcctga cctcaggatg tccacctgcc 9681460
tcaggctccc aatgtgatgg gattacaggt gtgagccacc gtgcccagacc 9681410
caaaatattt taatgcatgt tttttgccta taggtctctg tgtgtgtata 9681360
ggtgatatag atagcatatt tacctcattt taaacagctg cataaatatt 9681310
cctattgcat agaattgtaa caacatactg actaatacac tacagatgga 9681260
tattgtttta ccaaagtgat ttttttaata caacaaacag tgctctagtg 9681210
agtatctttg taaatgtgta ccttgatgag gtgtttttat aggatatatt 9681160
cctggaagga gaattactgg gtcaaggata tgtatactat gtttattgat 9681110
attgctcttt cctcccaaag agatttgaca aatttattct tccagcagca 9681060
atatatgagt ttacctgtht cctgthtctt ttgccaatag taggtttatc 9681010
agcctthaac tgtcaccctt ctaaagggca tggcattthta tagttgthtt 9680960
gattthcatt ttgtgtgaca ttgagcatct ttttatatat ttgtaagtaa 9680910
tttgthttat atthctgtaa actgccttht tatctcttht gactatthtt 9680860
ctattgaatt tgtctthtcta actactgaa tgtagcagtg cttagtatat 9680810
taaggagatt ggttcattgt catgtggta tthtaggcaa atththtaatg 9680760
caaattaatt thtcctagct attgcaatta tccttaggtt atthththtaat 9680710
gactthcttht tathcgattt tatgtcagaa tattatagta ttggthatta 9680660
gctthcaact tacaccaaatt ttgagcagat tggtaaatatt aatagctaca 9680610
gttaatcagg tactthattt ctgtaattta ctggcatttht acataagtta 9680560
tctctaaaag tgattccttht thtgaaggaa caaaaaaaa aaaattaagg 9680510
cttagacagc ttagtaactt gcccaagatt actcagctag taaatgacag 9680460

atacaagatt tgaacaaagg ttggactcca aaacttgtgt tatttctgct 9680410
atactggtgg agagtttggg gaagaagtgg ataatagtagc aagaaataag 9680360
taggagcgaa ggaagagtga ggaaactata aaatgaaaag aactcaaagt 9680310
ttagcttttt gggtttcttt ggatttgaag tggcctgtag aatccgtatt 9680260
ctagaggcaa aaacttccat agccttacat atttctcttt caagtttcgt 9680210
agatgacatt gattccctaa gaaaatatta aatcgtagcc acttgttatc 9680160
ttttctctgt gtaagaaagc agggaaagtat gtaatttatt ttacaaagtt 9680110
tccatactaa atatttaatg ggaaatttat ctaacagtct atggaatttt 9680060
ataccaggtg ttttaaaata ggttatttcc ttaaatcccc aaaaccgttc 9680010
agttattagg tgatattatt tccatttgta gataaatact taggattcaa 9679960
agattgaggc caaggtcggg cagttagtaa atgaaagtag gacttaagcc 9679910
aagtttgtca gactccaaag cccataccct ttcttttcta tcatattgcy 9679860
tcattaaagt ttaaaacaag aacaaaaaca aagatagctg aagtaatcag 9679810
tttgtatcag ggctgaatta actctatgaa acccctcatt acttgatggt 9679760
aaatgagaag attccgtttt tcgatagcag tggaaggcaa agtaatttaa 9679710
accaagatca ttgcattaa tttggatgta actattagag gttgaaaaag 9679660
catagaaaca ctgagagggt gtatgaagag ttgaagtaac ttaagaaaaa 9679610
aagaaacttg tttaaaattt gccttacaag tttcatttcc tttttgttat 9679560
aatcaagaa attatcagct aggcgtggtg actcacacat gtaatcccag 9679510
cactttggga ggccgagctg gatggatcat gaggtcatga ggtcaggaga 9679460
tcgagaccat cctggctaac acggtgaaac cccgtctcta ctaaaaatac 9679410
aaaaaattag ccaggcgtgg tagcaggcgc ctgtagtccc agctatttgg 9679360
gaggctgagg caggggaatg gcgtgaacct aggaggtgga gcttgcaagt 9679310
agccgagatt gcgccactgc actccagcct gggcgacaga gtgagactcc 9679260
gtctcaaaaa aaaaaaaaaa tcaagaaatt atcttatttt taaataacga 9679210
aaaagctgcy gagtatatac tgttttgata cttttttgat gttgcctgaa 9679160
tttttttggg aaaagttaa tgtttctcct aaaagtgaaa tatatcagat 9679110
tacttgagaa ggtctagaac tgataaagaa atgaaagtga tatacctgac 9679060

taaatggacc attaaaaatg gttagggtaa taatgttaat tcaaactggt 9679010
tagctggtct ttagttactg taaattctta agtcaaaagt cagaaagata 9678960
aaacgttaaa gaaatctgta agaaaatgac ttcacataat tttgggagga 9678910
taaagtaaaa gaaattttga cattctgttg gacgttttat aactcaaaag 9678860
ctaataattgg aaaatcaaaa aacatgaatt ttataatcgc ttggtcttta 9678810
tctttagaaa agattcttaa tgtagcaaat gaaaaatgca attccactga 9678760
tttctttctg aaaagaacat taagtaatgt tgcaactctt agctttaaaa 9678710
caaaaataata agacatttat aataagtatg cttttgaaag ttctcagcat 9678660
aactggaggg aaaaatcata actgagaatg tgtgggaaga tatgttttag 9678610
gatagcagaa gaaaatgttc caaggattta cgaaataatg ttctattgtc 9678560
ttttcccttt gaccatataa aaaccacaag caaactaaaa ttaccttgtt 9678510
atgctcaaaa agttaaaaat atttgttgcc atggagatag tcccagtcta 9678460
gatttctttc cggtagttaa aagacttttg caatcccatg ggaagtaat 9678410
atattttcag tacaacagct gacaaaattt gtttctgtgg gtgagatgaa 9678360
taatatacct ttctttgtct ttggtgttca tggacacatt gaaagactat 9678310
aaataaact tgagaaagtc ttgctacca ctctagttt tcatgtaagg 9678260
atggaaagtc atagaaaaca aaaagaatag taagccaatt aaagaactgg 9678210
actgaaactc aacaaaaaga atagtaagcc cactaaagaa ctgaagtgta 9678160
taccctcc cctctcctcc cctccctcc cctccctcc cttccctcc 9678110
cttcccttc cttcccttc tcttccccct ccccttcccc tctcctcccc 9678060
ctctcctccc ctctcctccc cctctcctcc cctccctcc cctccctcc 9678010
cctcttttcc tgtcttctgg tgccaatgga gtctatattc taatgtctgt 9677960
cttagatacc ttgtatttat tttcctaact gtaattgtgg gttacttttt 9677910
tgcaagatat gttgttttga ggaggaaaaa aagcacgagt actttttttt 9677860
tttcttattt tgagcgggag tctcgcgctg tcaaccaggc tggcgatctc 9677810
ggctcacagc aggctccgcc tcccgggttc actccattct cctgcctcag 9677760
cctccaagt agctgggact ataggcacc gccacatgc ctggctaatt 9677710
tttgtatttt tagtagagat ggggtttcgc tgtgttagcc aggatggtct 9677660

cgatctcctg acctcgtgat ccgcccagct caacctccca aagtgtctggg 9677610
attacaggcg tgagccacta cgcacggccg catgagtact tttaaatata 9677560
gaaagcagca tttattaatt ttgcacagca ataagaattt tctcatagtc 9677510
caccagcctt gatagagaca gcatagtaca gggttttgaa ataaaccagg 9677460
tttatttccc agtttcacca tttactagct gtgtaacttt gagtaggttg 9677410
attagcttcc aagcctcaat ttgtacttgt gtgaagtggg gataatagat 9677360
gcatagtacc taacaccaag taggtgttca ataaatggta tataatagga 9677310
ttagtTTTTG ataataattt ttttagataa tcaggattcc aacttaacta 9677260
cgcagtcatg tgtgtttcct tattcttcag tgttttccag gagagatgaa 9677210
tgtataagtt ctttgaatat ctttacccta gtgtgagttt attgtgatct 9677160
gctgttttta tagctaaata aattagttca tttgtcgtta caggagatat 9677110
attgctctaa gtacctaata agactttagt tgtaacttgc atagtgtttt 9677060
attaatgtca atgcttctgg ctttttaaga aagtttaatt atgtgaaaat 9677010
gagacttaaa atttgtgtgc ttagagtaaa atatgaatgc atttttcttc 9676960
agGCATTTTA AATTATACCT GACATCAAGT ACTGAACGTT TTTCACAAAA 9676910
TTTCAAGGTC GTGGTGGTGG ATGGTAAAA CGAAAGCGAG TACACTGTAA 9676860
AATGGCAGGA CTTCTTCACT GGACACGTGG TTGgttagta tggagcttgt 9676810
tggtttgccc ctgtgtctgg tgtattaggt ctccaaatct aacttgattg 9676760
catattcttt tctggtgcag gatagtgggg acggggtgtc atagaagtgc 9676710
tattctttga cttttctttg aggtatataa gtttagaggc aggaacattc 9676660
taatagaagg aatgagtat tatctaaatg tcatactagc tggctggttt 9676610
aatgattaaa attaaattct tcttaagtga taggaattta acctttcttt 9676560
tcctcagtga ctgtaagctt tctttatgat attttaaaca gggaagcttg 9676510
gagataaaat acttgggtgat cctattacgt atgtatttga gaaaatttat 9676460
caaacaagca attgcagttt actttttgac ctttttctgc aatgagaaaa 9676410
aaaaatgtca ttgaaatcca caaatagtat agttcctagg cctgtacatt 9676360
ctaaatcatg ctttctgtct ctcttagttc ttcctttacc tagaagtaga 9676310
taaaattatt ccagaagaaa atcttagcag ttttgtttgt tttgggaaag 9676260

ggataggttt caagtgacta aacttgaggc tacccttag gagttgagat 9676210
tatctagctt ctttctggag cttttgtttc ttgttttgca gagctctcac 9676160
agtactaggc aaattccacc ctgaaggatt taatttttat tgagagtaat 9676110
gcatagtttc ttatttgatg taagtatttt taaataataa tttttttttt 9676060
ctcttaagGT GAGCCTGACT CTAGGGTTC T AGCCACATA AGAGATGATG 9676010
ATGTTATAAT CAGAATCAAC ACAGATGGGG CCGAATATAA CATAGAGgta 9675960
aatattatg tgaatttttt ttcagtagct tatactctctg attttcaaaa 9675910
agctgctcag ttctgcaaag gtgaaaagta attatactta tttctttcct 9675860
cttcgtatth gaagtttttt actaggaaa tagacttttt aaaaaaggat 9675810
aatctctaag aagctgtgtt atgatacacc ctgtatttct aagtaccata 9675760
attgagagag ttacatgtgg gatggataat aggaagagaa aactttcttt 9675710
ccctcctgac tcattttttta attctttctc aaataataaa tgtaaaccatc 9675660
ctcagaaatg aaaagtgaag tattattttt caatttctct gtttttctgc 9675610
tagacacact ggaaatgcta gatcaatgaa agtggttagt tcatagtctg 9675560
agaagttaa gaggaagcta ggaaagtcag gctgtggtca ctcttcatt 9675510
gaaagagtag caatagaaat caagaccaca gtggctgcat tggttaagac 9675460
acatatctat ctgtcagata ttagtctaca aaacaaaacg tttcctcata 9675410
attgtgaatt gaagttgatt ctgtgtttcc tgaaaaatga gaagactctg 9675360
ggtggtggtg gtgatcac taaaatagat cacctgtggg aaaactgagt 9675310
aagattggtc aaaatgaaat gttcaggtgt atttgagtgc ttaatagggg 9675260
taaaacagtc tgctggagct atataacta tatgttttaa ttatatcaa 9675210
tctacatgac tgtagtcct ttgactgtcc attattgtga aaaagaaacc 9675160
tatggccttg cagtatgta tagtttgta atgtttaagc tatttaatgt 9675110
caatgttttg aggagtctgg cctaccagaa agagtcagaa atttagtaga 9675060
aagtaaagga actaatatta taaatgcatt cattctagaa taggcaaagc 9675010
atcactggaa tgtcttaaat ttgcctgttc tttcaaatca atttattttt 9674960
taagaatacc tttattttaa aatatatgct cattgcaaaa ttcggaaaat 9674910
agattatctg tacttgaca gataactact attgacattt tgacagacat 9674860

ccttccaaat ttttttttct atgtgtaa atacaaaataa atatagttat 9674810
accactatt ttttcctgca aaactaggac catacaatat gtacagtttg 9674760
tcttcacaca tttttcgttt aacaatatga ttatgaacct tttcgtgtta 9674710
atatagatct aaattaggggt tttgtttggt tgtttgtttg ttttttgaga 9674660
cggagtcttg ctctgtcacc caggctagag tgcaatggcg tgatcttggc 9674610
tcactataac ctctgcctcc ccggttcagg cgattctcct gccttagcct 9674560
cccaagtagc tgggactgca ggtgtgccc atgatgtccg gctaattttt 9674510
tttctttttt ttgagatgga gtatcactct gtcactcagg ctagagtgca 9674460
ctggcgtggg ctccggctcac tgcaacctct ggctcctggg ttcaggcggg 9674410
tctcccgcct tagacccttg agtagctcag actacaggca catgctacct 9674360
cacctggcta atttttgtat ttttagtaga gacgggggtt caccatgttg 9674310
gccaggatgg tctcgatctc ctgacctcat gatctgccag cctcggcctc 9674260
tgaaaagtgc tgggattata ggcgtgagcc actgtgcctg gcctcaactg 9674210
ttttgtttct aacttttgaa ataaaaggta ttgtagtgaa cagccttggg 9674160
cacacctttt ggtgcatgtg tttagttgga atagtctgga tgataggtaa 9674110
tagtctggga agttaaataga agaaactgta ggaagctctg tctaggctgt 9674060
gcgagggcct cagataaact cccatagctg agtagcttaa cacaagcaaa 9674010
gttttttctt actctcctgt ggcttgatgt gggttagggtg gttctcctct 9673960
actttgtggc tttgactttt ggacacatgt cctctgtagt tctcacagaa 9673910
agaaaacaga gctagagaat tatacaggat attaagggcc aggcttgtaa 9673860
atggccttcc gttcaataca ttctagaaca ctttatctct gacctgctac 9673810
aaaggagaat ggaaaagata gtcgtaattt gagctcagaa agagaaaata 9673760
gtgtggtaaa tgcacagcat tgtttttgct gcagtgcata tgtctgctta 9673710
tttctttaga ataatttatt cttttttggt tttttgagac tgagtctcac 9673660
tctgttacca ggctggagtg cagtggcgtg atctcagctc actgcagact 9673610
ctgcctcctg ggttcaagcc attctcctgc ctcagcctcc cgagtagctg 9673560
ggattacagg tgcgcaccac cacaccagc taatttttgt atttttggta 9673510
gagacagggt ttcacaatgt tggccaggat ggtctcgatc tcctgacctc 9673460

atgatctgcc agcctcggcc tctgaaagtg ctgagattaa aggcgtgagc 9673410
cactgtgcct ggccagctta ttaattctta agccaaaata tgtgtcttta 9673360
ggatccaagt taaatttgct cagattacat tttttttttt ttaagatggc 9673310
atctcgccct gtcacccaga ctggagtgca atggcgcgat ctcggtcac 9673260
cacatcctct gcctcccagg ttaaagcgat tctcctgcct cagtcccttg 9673210
agtagctgga attacaggcg tgtgccacca tgccccgta atttttgtag 9673160
ttttagtaga gatggggtt cactgtgttg gccaggctgg tcttgaactc 9673110
ctgacctcgt gatctgcca tcttggcctc ccaaagtgc gagattatag 9673060
gcatgagcca ccacgccag ctagattact catttttttc aaatacttcc 9673010
ttttggaaaa ataggaattc tgtttccatc cataccttg tttcactaag 9672960
tacaaaaatg agtataacta atatttcatt gtaagatatt tacttagcca 9672910
ggcacagtgg ctcacacttg taatcagcac tttgggaggc tgaggcgggt 9672860
ggactgcttg agcccaggaa tttgagacca gccaggcaa tatagggaga 9672810
ccttgtctct actcctccac aaaaaaaaaa aaaaaaaaaa aattagctgg 9672760
gcatgggtggc acatgcctgt ggtctcagct acttagaatg ctgaagcagt 9672710
aggatcagtt gaattcggaa ggcggagact gcagtgagct gagattgtac 9672660
tgctgcactc cagcctgggt gacagagcga gaccctatct cacacataca 9672610
cacacacaaa gatgtttact tacaagtata ctcatcagat accttgaggg 9672560
acttttgcat gaaattaata atgtttattg aaaaaatgat ttactactta 9672510
caggggtgat tttcactctc tttataattc ttttgatact tttatagtct 9672460
ataagtgtgg tgattggctg ttcacacaca catatgagat gtaccaccct 9672410
agaaccttgt tacaatgtta gcacattacc agtctgacat gaaaaaaaaat 9672360
aattctttac acttaccttg atgcaaaaac attgtctatc tgcactaata 9672310
tcttaggaat ataagtgagc aggaaaaaat atatatctta tttttaacac 9672260
atcatcatta aatattttgt ttatgacagt cttacttgggt cactcaggct 9672210
gaagtgcagt ggtgccatca tagctcactg cagccttgac ctctgggct 9672160
caaacaatcc ctcttttctg cctcctgagt agctgggact acaggtgcat 9672110
gccaccatgc ccaactaatt tgttaaattt ttgtagagtg tatcagattt 9672060

ttgatgaggt ctcaactgtgt tgcccaggct gatctcaaat gtctgactgt 9672010
aagcaatcct cttgcttggc ctcccaaagt gctgggatta caggtgtgag 9671960
ccactgtgcg cagccgttaa atattttaaa ccgtcactga ctttaccata 9671910
gcttactatt tatataaata atcctgggtt aaacttgcag agtgagataa 9671860
tatttcccc aacttttatt tattttattg agatggagtc ttgctctgtc 9671810
gccaggctg gagtgcagtg gcgcaatctc ggctcactgc agtctccgcc 9671760
tcccaggctc aagcatttct cctgcctcag cctcccaagt agctgggatt 9671710
acaggcacac gccactgtgc ccggctagtt tttatatttt tggtagagac 9671660
agggttttgc cacgttggcc aggctggtct tgaactcctg gtctcagggtg 9671610
atccaccgc gtcggcctcc caaggtgctg ggattacagg catgagccac 9671560
tgcatccggc ctaatttttg tatttttagt agagacgggg tttcaccatg 9671510
ttagtgaggc tggctctgaa cttctgacct tgtgatctgc ccacctcggc 9671460
ctcccaaagt gctgggatga cagacgtgag ccaccatgct tggcctcccc 9671410
cagcttctag ttttaaaaat gttcagctgg tgcaagtggc catgcctgtc 9671360
atcccagcac tttgggaagc tgaggtgggt ggatcacttc aggccaggag 9671310
ttcgaggcca gcctggccaa catggtgaaa cctcgtctct actaaaaata 9671260
caaaaattag ccaggcttgg tggcttgcgc ccgtaatccc aactgctcgg 9671210
gaggcctagg tgggagaatc gcttgaacct gggagacaga ggttgcaagt 9671160
agctgagatc gctccactgt actccaatgt gggtgacagg gtgaaactct 9671110
gtctcagaaa aaaataaaaa agaaaatgtg caaatctaca gaaagattaa 9671060
aaagtaccct gtagttacag aaagattttt ttaaaaaata ccctgtagcc 9671010
cttaaacaat ttctaacata atgtcctggt agctttctct ctttttttcg 9670960
tgaatcatat gaaaatcatt tgcaaacatc atgacccttc acccctaaat 9670910
acttctgtat gcatccttag gaataaaggc actcttttct atagctgtaa 9670860
taaaagtaac atacctgaga aaatgacaag aattctacaa tattatctaa 9670810
taatcatgcc atagtcaaaa tctctagtca tcctcaaaat ctcctttgta 9670760
gatttttttt ggttttccag tccaggatcc aatccagttt tctgcctttt 9670710
agtcaattac tcatcaaatt attttttcca gcaacttact agtaataatg 9670660

gtaatagcct tagcttttat taataacaac cacttttctt ttgaaatggt 9670610
aatataaaac tagatattatt acctacataa tcttcataat cttcaagtta 9670560
ggattatca ctactttacc taatgagggg ggttatgctc agggacttg 9670510
tccaaggcac atagtgaggt atggttgagg tttgaactca gatatatctg 9670460
atcccaaagc cagctgtctt tttctgtgct ggactgacta tactaggaaa 9670410
caatcaatgt gaacttagaa atgtttgacc caaaagaaaa aaaatttcac 9670360
tcctattcat aggctaaatg aactttacta aatatggaag attcctgtag 9670310
cccggaagtt gggttagtta acttttgaga tctctgcaa ccctgaaatt 9670260
ctgtaaccct tgtttcttac atctgcctca tacatggatt accaaagatg 9670210
tatatgcata taatatttaa cagttttatt gagataaaat tcacatacta 9670160
tattattcac ccacttaatg tatacaatth tgtagttttg tgtgtgtgtg 9670110
tgtgtgtgtg tatttttgag atggagtctc actctgtcac ccaggctgga 9670060
gtgcagtggc acgatcactg caacctctgc ctctgggtt caagtgattc 9670010
tgtggcctca gcctgttgag tagctgggat tacaggcgcc caccacatg 9669960
cccggctgat ttttgtgttt cagtagagat ggggtttcac cgtgttggtc 9669910
aggctgttct cgaactcctg gactcaagtt atctgcccac catggcctcc 9669860
ccaaagtgct gagattacag gcgtgagcca tcgcgcccgg cagttttcgt 9669810
atattgatgg agttgtgcaa acaccacctc attcaattht agaacattht 9669760
tatcacctga aaaagaaacg ctgtatcctt tagccatact tccccttcc 9669710
tccctaactc cccagctct aggcaaccag ggatctactg tctattttaga 9669660
tttgtctgtt tgggtcatct catataaatg gaattacata acatgtcttt 9669610
tgtgtgtggc ttcaattht ttatthttht gagatggagt cttgctctgt 9669560
caccaggct ggagtgcagt ggcagatctc cagctcactg caactthtgc 9669510
ctctgggtt caactgattc tcttgctca gcctcccagg tagctgggat 9669460
tacaggctcc tgccacatg cctgactaat ttttgtatth ttactagag 9669410
tcgggtttc actatgttg ccaggctgtt ctcaaactcc tgacctcaag 9669360
tgatccacct gcctcggcct cccgaagtgc tgggattaaa gacatgagcc 9669310
accacgcca gcctgtgtgt ggcttcttc acttagaata atgtttcaa 9669260

ggttcatctg tgtttagca tgtatctgta tcttatttat ttttattgct 9669210
gaatagtatt ccattgtatg gataaactgc attttgttta ttcattgatt 9669160
agttgttgat ggacatttgg gttgtttcca ctttttagct atatttacat 9669110
tactgcttgt gttttcattt ctcttggta tatactagga gcagaattgc 9669060
tggtcatat ggtacttcta cttttaacct ttgaggacct gccagactgt 9669010
tttctaaagt ggttttacca ttttacattc tcatcagcat atgtgagggt 9668960
tctggatttc tctacatcct caccagtatt tgtctttgat catagtcac 9668910
ctagtgggta tacaggggtg tctcattgtg ggggtttttt tccccattgg 9668860
ggttttgatt tgcatttccc tgatggagat aaatatattt tttgtgtgtc 9668810
ccccacaaa ctgcctggtt ctgatgagac cagtgttctt acagagaata 9668760
actttgcttt gaaacaaaac aaacaaacag ctttttgact tgggtaacct 9668710
ttggagtatg ttaattgtga tttactctgg ccttgaaca ttgtaagtgg 9668660
agattttggt taaaaactgc gttcgctgaa acaagtaata aggttcagac 9668610
ctattgttac aagttctgag ttttcttca tataaatatg tttgttcttt 9668560
tgtgtggata aaacctaacg tggcaaaaag gtgtcaaaca cctaagtatt 9668510
aaggaaacta aatgaaaat gctgcatgaa cagaaacctt gtccaatttt 9668460
cattactata gcaccatcac ctataacagt gccagtgtac agtagatatt 9668410
acataatatt tttgaatgaa tgagtggaaa atgatatgca tttttctctt 9668360
ctgcatcctc tgaaagattt cacaacgtgc aaagtatgta aggctttatt 9668310
tatatacaga taaaataatc agagtttata atctatgtat ttactttcct 9668260
gcatagaaac tccatagat taaaaattga gattatttat ttttaataaca 9668210
tgactaatca gtttacttaa cctagaaatg aatgttatct aagaacaagc 9668160
aaagaatggt agaagaattt agtgtttagg aattattatt gttttccatc 9668110
tcagtcgtat atattttctg ttttagCCAC TTTGGAGATT TGTTAATGAT 9668060
ACCAAAGACA AAAGAATGTT AGTTTATAAA TCTGAAGATA TCAAGAATGT 9668010
TTCACGTTTG CAGTCTCCAA AAGTGTGTGG TTATTTAAAA GTGGATAATG 9667960
AAGAGTTGCT CCCAAAAGGG TTAGTAGACA GAGAACCACC TGAAGgtaag 9667910 [D201Efs*11](#)
acttaaagag tgtatttcaa ataagaaaca aacatactac aattgacttc 9667860

agtaggggtg gttgttattt gttaaaaaat aacatgattg tcaagtaact 9667810
atagtatttg gcatgaaaaat aagaggtttg ttccagaaat tttcatcttc 9667760
ttttgtttat aatgtaagag ttgaaaactc tggaaaataa tgggaacaac 9667710
agagattaga ctttaaaaaa gattagggaa aagggaaatg gagtgatctg 9667660
agggaaaata ttctgcaga tatttagaaa tgataaaata atatggtgga 9667610
aagacaatct ttagagtta taagaaatta attggtagta ggaggacct 9667560
atatatatac tgcttagaat acaagaaggt tatatccatc ttgggacaat 9667510
ccatttaggg tcatttaaaa aacgtaacca tcttgaatt ttactgcca 9667460
aaacacctct ggtaggttt tttgttttgt tttgttttgt tttgtttgca 9667410
gcgcgatctc ggctcactgc aaccttgac ttccaggttc aggtgattct 9667360
cctgcctcag actcctgagt agctggatta taggcatgtg ccaccaggcc 9667310
tggctaattt ttgtattttt agtggagatg gggtttcacc atgttggca 9667260
ggctgttctc aaactcctgg cctcaagtga tctgccacc tcagcctccc 9667210
aaagtgttg gattacaggc gtgcaccaac atgcccggcc aaagacggtt 9667160
atgttattaa aattatata tagcatttta atatataaat aaagaaattc 9667110
ttaatttatt tcacaagaaa gttgtcctat taaactaatt ttcaatgtga 9667060
atatcttgac atttttactg ttacattggt taattcataa acttcttgtt 9667010
gtagaatag actgacagct tcatagccca gcattagggt actgttttac 9666960
tctgttgagc actatttatt tatttattta tttagagatg aagtctcact 9666910
tttgtcgccc tggcttgagt gcaatggcac aatcttggct cactgcaacc 9666860
tccgcaccct gggttgaagt gattctcctg cctcagcctt acaagtagct 9666810
gggattacag gcgggtgcca ccatatctgg ctaatttttg tatttttaat 9666760
agagatgggg tttcatcatg ttggccaggc tggctctgaa ctccccctct 9666710
caggtgattc acccaccttg gcctcgcaa gtgctgggat tacaggcctg 9666660
agccaacatg cccggcctta ctctgttgag cactttttaa agtttctgta 9666610
ttggaaaaat taaagaggca cttgtccttg gttttgaatt ctacagtgtt 9666560
ttaactttat gttacttttc acttttctgt cttcctcaa attatttttt 9666510
gttgttgttc agaatccttt agtgatatta agctcacata atgtttgttt 9666460

caaaaatag ttagatttaa agtgttacca taaaactcct tgttttggtg 9666410
aattttgatt taatagtgca tacaaattca tatttagAGCT TGTTCATCGA 9666360
GTGAAAAGAA GAGCTGACCC AGATCCCATG AAGAACACGT GTAAATTATT 9666310
GGTGGTAGCA GATCATCGCT TCTACAGATA CATGGGCAGA GGGGAAGAGA 9666260
GTACAACCTAC AAATTACTTA gtaagtatth gatattgcat cgagtaattg 9666210
aaaaaaaaat ttgggtgggt acattccatg aaacttaatg caaccagatc 9666160
tgttccagat actctgttat ttccctaaaa tatttgaggg atattctctg 9666110
aggtttttat gttactgtat ggaaattata gtttcaaatt tgtgacaacc 9666060
cattttaccc ttgaactaat attttctgca tgttagaatt tatgcatata 9666010
gggtttggga gaggttataa tgtagtcctt cctccttgat ataagtgagt 9665960
tctttaaaaa catcactgct atcatggtag tgaacctgtg gtgtcacatg 9665910
tgaatgtaaa aatatgtatt tgcatgaacc catgtttttc ttttgcttat 9665860
atgtatattt cagagaggaa ggcgagtttt gtttgtcatg ttaaagacct 9665810
aatcattgga cttcacttga aataggtggg actttcatgg tcataactag 9665760
ttctagggca cagaagtga gaaagatgt aagaagtgat gatactggat 9665710
ttttaagtat gaactattat gatttttgaa gtctggggaa tcatttttca 9665660
ttgacatttt ttgctagtgt gacttcattc gtcatgatta cttggcactg 9665610
accaaaatgt tgttactgag ggaataatgg agaatgcagc tattcatgaa 9665560
gcaagaagaa gctggtgcag taaagatgtc tttctcattg ccttgctttt 9665510
cccatgctgt ccattttatt cataccctcc caacttcttt cccttcctt 9665460
tcatgtcaag tggatttttt tttttttttt tcaacacaga gtctcactgt 9665410
gtcgcaccagg ctggagtgca gtggcacaat ctcagctcac tgcaaccccc 9665360
acctcctggg ttcaagcaat tctcctgcct cagcatcaca agtagctgga 9665310
attacaggcg tgaaccacag cactcggccc catatcaagt gaatttatta 9665260
tgaggctagt aagagtcact gtgattcttg ttcctaaata agagagattt 9665210
ttactttaa aagcttctct cttaatctgg gttttatatt aaggggctcc 9665160
tcttatttta cttctttggt cattgcacta taaatagaa tataatgaga 9665110
gatctagtct taaaaattgt atttttttac aacttcttag gcataacttg 9665060

tttcacagtt gctagaacaa acctcatcaa cccagttttt gaacagtaga 9665010
atattctctt tgagaaaaag ataggtaatt agcattttgt tctttctcat 9664960
gtcattttcc ttggaaacta tactgccttc cttctccagt tttcccaaat 9664910
cagagaacaa aagaaggagg gttgctgaaa tgaaccttgt tctttctggc 9664860
tgtcttctta cccattcctc agtgctgaac tttttggggg gagagtgggg 9664810
gaatagggtt ggtagttgtc tgccacggcc cttacttgt ttctggggaa 9664760
gacattcgag gtactcacca agagatagag tgaagatgga attcttttta 9664710
gaaggaata cagttgacc aggaacagtg cgggggtgtg gttagaagca 9664660
ctgaccttct tccctctgca gtcgaaaatc ctcacgtgac tttttttttt 9664610
taaggctctg tcgcccaggc cggagtgcag tggtgaaatc atagcttgct 9664560
gcagcctcta ttgcccgggc caaagcaatc ttcccacctc agcctcctct 9664510
agctgggaca acaggtgtc acccttcctg gctaagtttt ttgattttta 9664460
gtagagatgg agaatttccc aggatggtct caaacttcta agcttaagca 9664410
atcctcctgc ctcagcctcc caaggtgctg ggattacagg catgagccac 9664360
tatgcccggc cactgtataa ctttgattct ccaaaaattt aactactaat 9664310
agtctactgt tgaccagaag cttaccaat aaaataagtt gattaacaca 9664260
tttttaaaat atgtattatt actgtgttct tacaatcaag taagctagag 9664210
aaaggaatat gttatgatga aaatcataaa aaaaaaaaaa agcccggcat 9664160
ggtggtgtgt gcctgtagtc ttctgttact caggaggctg aggtgagagg 9664110
attgcttgag tccagaaatt caggctgtag tgagctatga tcgtgccgct 9664060
gtactgcacc cctggtgaca gagcaagacc ttgtctcttg aaaaaaaaaa 9664010
aagaaatca taaggaagag aaaaatacat ttactattca ctaagtggaa 9663960
gtggatcatc ataatggtct tcatgttgag taggctgagg aggaagagga 9663910
agagttgatc atattgtctc tggtgacaga ggctcaagga aatccatag 9663860
taagtggaca cttgaagttc aaatctgttg ttcaagggtc aactgtattt 9663810
caggtatact gattgacttt taaatttaat ttttattatt ggctgaaacg 9663760
gtagttttaa aaaagcctgt tacttgtcat tttggttcca tgtgcaattg 9663710
agtacctgaa atttaggta aactatacca ttgttttatt ctggtaacag 9663660

cactttaagt ttggggccaa aggttgggaa tactctgata cagtaacatc 9663610
tcaatgctag tttttgcgaa agtagaaact tttgcaatgg cctctaaact 9663560
gagatTTTTT ctttccccat agatTTTata ttgcattgcc aggagaggta 9663510
aagagttaca taatgtcttt tttctTTTT aaatacacac agATAGAGCT 9663460
AATTGACAGA GTTGATGACA TCTATCGGAA CACTTCATGG GATAATGCAG 9663410
GTTTTAAAGG CTATGGAATA CAGATAGAGC AGgtatttat caatagatat 9663360
ggcttatatt acttaagttt tgtaatgtaa atatttgtca cttgtattca 9663310
aaacctaanaa acttgtcctt aacaataatt gtaaataagt tttctcagat 9663260
gccaatgatt ttttatgatg aattgtgcag tatttttgat gttaattagt 9663210
tctagattgt gaagTTTTt gtccttagtc tgcctttagg tagaaagcct 9663160
tttatgctgc tgtgctttgt tccttctttg aattcatggc ctttatattc 9663110
tctgtagttt tcttcccccc tccgattatg ctttaagtctt tagttaaanaa 9663060
tctggcatgc accattgaat ccttagtcag aaaatttact aaaaaaact 9663010
gtgtacctt gcaaggctgt atttatata acagaacct taggttcttt 9662960
cctctcagat atctccttct gatttcttgt aatctgttaa cagagtgtgt 9662910
ctagtaatgt tatattaatg tcatcttaat aatagctcat attaaaagt 9662860
atttcaaatt gctaggacta attaaaaagg cttctgacaa agggattgc 9662810
tttgggcaga gagacatttt gatatgtaaa ttatataaat tgttatctct 9662760
atTTTTtcc aagctTTTTg tagtaaacca tatttttata agttatatag 9662710
tatagaattt agaggttgaa aaaattttta aaaatcattc accatgttta 9662660
taaagttaa actttgatat tacttgtata aaactaagag aattattttt 9662610
cccttttcat tctctttcac tgttacgcat tttcttttta agttattatt 9662560
tgaataggta acatgtacac agtacaaaag ccagtgaaaa gtaagtctct 9662510
gcagcctgtt tattgtcaaa ccagttcctt tccccaaaga cattcatgtc 9662460
actagtttca tatgtatctt tctagagatg tcgtatgcag gtatagtgta 9662410
tgtatatgtc tgtatttgac acaacggtgc tatgcagtac acttttacac 9662360
cttgcttttt catttcacag tatgttgag agtacttcat gttcatgcat 9662310
gtaaagctgc ttcacttggt ttattataaa tagctgcatc atgtttgagt 9662260

ttcaggaac ctgtaaattt tctttttgct ttaggcattt ggaaccagtc 9662210
gaagaaacag gaataatata ggagattaa acattaactt ctttacatct 9662160
gatgaaggat ggattggagg gtgtggttta gatgtgtatc atgggtgggct 9662110
tctaagtagt tctatcccag atttgacctt gaccagccac catcaaaaact 9662060
gcagagtcca ccccagtaaa cttaccacac agtggcagag gagaccagaa 9662010
tgggccttct ctgcaggcag gcaggcaggc aggcaggcag agagactcac 9661960
agaaactctg agctgagcat ggtttccttc tttatctcac acttactaat 9661910
gggagccttt gttacttttt tttttcttct ttgcaggttt aatatgaatt 9661860
tgtctgaaat gcctgtataa ggagaagact ctattcttag cctttttattc 9661810
ctttgatgca caaagagatg tatattttat tattctttcc tgagttgtcg 9661760
actgtagtgc taataaatat tttaggctcc tgtaacccaa gttcttattt 9661710
tttcaaaaata aacatggagg atatgaaaat ttaagagtac atttataata 9661660
ttataaataa ttcattgaca tatgttttcc ataccatag cttctctggt 9661610
tgtttcaaac attgaatatt ggtactgaag aatttatgaa ttttggtttt 9661560
aaaatgtttt ttttctagaa cgattctttt tttgaacaga taaaataatg 9661510
cagtattcag agccttctga cttattttgg aagtgttcta agtatatgat 9661460
ctctttaagt atag**ATTTCGC** **A****T****CTCAAGT** **CTCCACAAGA** **GGTAAAACCT** 9661410 **I284T**
GGTAAAAGC **ACTACAACAT** **GGCAAAAAGT** **TACCCAAATG** **AAGAAAAGGA** 9661360
TGCTTGGGAT **GTGAAGATGT** **TGCTAGAG**gt aggtcttaga atcctggata 9661310
tggtgctaac accactttgt catttctgat atgtggattg tatgtgtttt 9661260
aatgaaggag catgttagaa aagatggaca cccagaagca gtctcctcca 9661210
gctgatccag cagtaacccc atcccagta gcagcataga caacaaataa 9661160
caaaaactct atgaaaaaga aaaacgctat aaagcaatgc ttcctttttt 9661110
tttttttttt ttttttgaga cagagtttca ctcttgttgc cctggctgga 9661060
gggcaatggc gtgatcttgg ctcaccgcaa cctccatctc ccaggttcaa 9661010
gagattctcc tgcctcagcc tccaagtag ctaggattat aggcattcac 9660960
caccacggcc ggctaatttt tgtattttta gtagagacag ggtttctcca 9660910
tggtggtcag gctggtcttg aactcccgc ctcagatgat ccgtctgcct 9660860

cggcctccca aagtgctggg attacaagtg tgagccacca tgcccggcca 9660810
aagcagtgcg tcttaacctt aatatctttg aggatctaag gagacaatca 9660760
gtggatcttc tctagaaaat aacatggata cccaatatat agagtttttg 9660710
cacactgttt cattagttct gcacacttag ttcagctctc tctgaagctt 9660660
atcaatttat cttttagggc agtaattatc aaacaggtta tgaacatgta 9660610
ttggagagta gaaatatagc ttggagatct gaaagtctc tacaggaatt 9660560
taaaatTTTT gtgtttttat tctggcgatt aatctaaaga tggctaactt 9660510
aatcatttta tgtcatttgg agtcttgccg tataacaggg tgctgccatg 9660460
tgattccagt gtcttgagtt tgtgtgtgct attactttgg tgtagaatga 9660410
ctttatatga agcgatagtt tttatctttt aatgtgttgg caagtttatt 9660360
agtttcttgt tgttgcttta attatcacia gtggagcagc ttagaacaac 9660310
acttatttat cccatagttt gcatgggcta gtccaggatg ggtgtggctc 9660260
atctggattc ttgtttaggg tctcatgagg ctgaaatcaa gttttcaaag 9660210
cttcaataga attaaaggat attataacta ttcattcaga tggagaagca 9660160
taatgtgcag cacctgtgtg gtactcattc ataccttgtc taatttgatc 9660110
tgctgagcac cctgagaggt tggttgagac agcatccttg tgaggaggct 9660060
cagcaagtgt tactgtttat tccagctgac atgacaaagc agcataggct 9660010
gggggactta aacaacagaa gtttgggttt tcacagttct ggaagctgga 9659960
agtccaaaat caaggggtca gcaggggtga tttcttctga ggccaaggta 9659910
cttgtggtgt agatgctgtc ttctccctgt gttctcacat ggtccttccc 9659860
tcagtgtgtg tgtatattct gatctcctta tcaggacacc agccatattg 9659810
gattaaggcc cacccatag acctcagtgt accttaatta cctccttaag 9659760
ggccctgttt ccagatagag tcacattctg gggactgtt gagggttagg 9659710
acttcaacat ttgaattgtg ggggtggcaca attcagccag tagcaggaag 9659660
attaaatgac ttgtctgatt agtcatacaa ctggtgatgg cagaggttga 9659610
attgagcaca gatctcctga ctcttagaac agctgaacca ctgctcctgt 9659560
ctgcttttct gtgagcctcc agacagccca tggcagggga ggaaccaaag 9659510
agaaaaatga cttatgttga cagatggtcc tctccagttt tcttccctaa 9659460

gcctcctaga atattcctag aagcctcatc cttttaccac ggaactatca 9659410
gaatccccat gtaaccacac ttcattcctc atatagggct ctctggcctc 9659360
tcatttaaag cattttaaac attgaggggtt ttggctaggc atgggtggttc 9659310
atgcctgtaa tcccagcact ttgggaggct gaggatgagg cagtggattg 9659260
tttgagccca ggagttcaag gctagccttg gcaacatggt gtacaaaaaa 9659210
tacaaaaatt agccgggcat ggtgaggcac gcctttggta ccagcttctt 9659160
gggaggctga ggtgggaggt tcacttgagc ctgggaggtc gaggctgcag 9659110
tgagctgtga ttgcgtcact gcattccagc ctaggtgaca cagcgagacc 9659060
ctgtctcaag caaaataaat caaaccccc ccccaaatta aggttttttt 9659010
aaacttgag acgctggacg gttatggtag aggtttttaa agtaatgtat 9658960
gaagcccttt taaattaaga aaaaaaaaa cctctcaaac ctgcagtgtt 9658910
gatttaaagt gatgtaaaat ctttatttta gtaacataaa actgggtatg 9658860
tatgcttttc tataagtga tatttatata aatgacaata tattatgaag 9658810
ctcaaaaaag ttaagatta aaatttctat aaaaccaatt gaatccttga 9658760
aatacttgag agggatctgt tttggcctgg agtgctgcaa tccccttacc 9658710
gaattggagc atctctagtc ctgggctgta tgtcttcaga acagccctcg 9658660
gaggagcagt gagttagttc tgaagagctg gagcaagctc ccgaactatt 9658610
cccttttgtg tcccttgtca gatgacagtg tgtgcctctc acctgtgcag 9658560
gtggagaagc actttaggga aagagcaaag cactgcacga ggttgtgatt 9658510
gctggtgctg agctgcatgc catcatagtt ctgttctgga atgtttagtt 9658460
gatttagatt acatctttta gtctgatga attgttaatc taagaatgct 9658410
tttttttttt tttttttttt tggcttttca aagCAATTTA GCTTTGATAT 9658360
AGCTGAGGAA GCATCTAAAG TTTGCTTGGC ACACCTTTTC ACATACCAAG 9658310
ATTTTGATAT GGGAACCTTT GGATTAGCTT ATGTTGGCTC TCCCAGAGCA 9658260
AACAGCCATG GAGGTGTTTG TCCAAAGGgt aagtttttcc atttcttgtg 9658210
tgaatatgct gctgggatta ttaagatgat tggattatat tataattctg 9658160
tatttaataa gcaatttatc tctgtttcct tttgacttta gCTTATTATA 9658110
GCCCAGTTGG GAAGAAAAAT ATCTATTTGA ATAGTGGTTT GACGAGCACA 9658060

AAGAATTATG GTAAAACCAT CCTTACAAAG gtatgttctt ttatttctaa 9658010
aagaatagtg ttagagttta ttgtagtaga acctcagtta tatatttatg 9657960
taggtatfff tttaaaaaat gtaatatata ctgtttttta aatttctgcc 9657910
taaataaaat ttatgtatff ttgtgggata tatgaaaatt aaagcataaa 9657860
gaagaaaata aaaatggcct gtcagccttc ttttgaaca tgtgaggacc 9657810
actgcttttc tcgaaccctc tgcctggac ccctctgacc tgcagcaact 9657760
cttagagctc cctgtctcct agtcctgcag tgcagctgtc attcaaggca 9657710
tcccacaccc tcttattttc agaaccccat ggtctccctc tttctcagtg 9657660
ccatcatttt ggtgtagtgt atcttgcagg agcttcctaa gaaaacgtag 9657610
atgacctgca tattgttggg atttcatata tctgaaaatg tctttattcc 9657560
actcttaagc ctgattgata attttggctg agtatattct tagttctcat 9657510
gttctctatg gtcttctgtg catgttgctt ctaaagaatc tgaagtcat 9657460
ttgagttctt atctttgttt gtcacctgtt tttttctctg gaatatctta 9657410
agatcttggt tttctccagc tatgtctggt aaaatgtggt tgactacaaa 9657360
taacagaaaa ttaaataagc agtggtttaa ataaggggtt tatttgtctc 9657310
agtcaacaag aagttcaggg atagcatttt ctgggtggta cagcaactca 9657260
gaggtaccct cagtggctca agaacaagca ggaagtcttt gtcctcatgg 9657210
atgtcacctc atggttttaa gatggttctc ttctgtgttg gagaaaggag 9657160
gagaaagaga acatggctag cctagtctgg cccttctaaa aagcttctct 9657110
ggaggcccca tcctggcttt tgtttatatg ttactggaca gcactgggtc 9657060
ccgtggctgc ccttagcctc aacggaatgt ggaaagctgg ctatttttagc 9657010
tgagtatatt gctgtcctgg gcaaaattag ggctcattaa gtaaggaaga 9656960
aggggagaga gatgttggta ggacatatta gtatctgata tactgatttt 9656910
taatttttat ttaattttta ttttttttga gacagagtct tgctctgtgg 9656860
cccagtctgg agggcagtgg caccatcttg gctcactgta acctctgcct 9656810
tctgggttca agcagttctc ctgcttcaac ctcctgagta gttgggatta 9656760
caagcacctg tcaccacgcc tggctaattt ttgtatffff gttttagaga 9656710
cagggtttca ccatgttggc caggctggtc tcatgaacct ctgacctcaa 9656660

gtgatccact caccttggct tcctaaaggg ctggttggt tactgatttt 9656610
ttgactatga tgttataactt ggtgtagggt atgggaaaac atttgcaaaa 9656560
gacacatctg agaaaagact gctatctgaa atatacaaag aggccgggca 9656510
tgggtggctca ttcctataat cttcggcact ttgggaggcc gaggcaggag 9656460
aatcacttga gcccaggagt ttgaaactaa cctgggcaag atggtcagac 9656410
cctgtctcta caaaatataa aataaataaa taaataaaaa tttccatatg 9656360
tataaagaac tgttaaaatt caacaataag aaaatgaaca acctaattta 9656310
aaaacagaca aaagagcaga acagatacct ccaaagatat acagatagca 9656260
gagaagcata tgaaaagatg ctcagcgtca tatgtcatta ggaaattgca 9656210
aattaacaat gaagctgggt gtaggggtac atgcctgtag tcccagttgc 9656160
ttgggaggct gaggtgggag gattgctcga gcccaggagt ttgagacca 9656110
tcctgggcaa cattagttag atcctatttc tataaaaaac ttaagaaac 9656060
ccaacaacia tgtgctatta ctagtagctt attagaatgg ctaaaatccc 9656010
aaacactggc aacacaattc caacaaggct atggagcaac aggaactctc 9655960
attaattgct agtgggaatg caaaaatgga acagccactt tggaaggcag 9655910
ttggcagttt cttttctttt tcttttttct tttttttttt tttttggaga 9655860
cggagtttca ctcttgtcac ccaggctgga gtgcaatggc gccatctcgg 9655810
ctcactgcaa cctctgcctc ccaggtttaa gcaattctgc ctcagtctcc 9655760
tgagtagctg ggattacagg tgcccgtgc cactcccagc taatttttgt 9655710
atttttagta gagatggggt ttcacatgt tgtccaggct ggtctcgaac 9655660
tcctgacctc aggtgatccg cctgcttcag cctcccaaag tgctgggatt 9655610
acgggtgtga gccactacgc ccagccataa gaatgtttat ggcagcttaa 9655560
ttcataattg ataaaacttg gaagcaacca agatatacct tagttggtaa 9655510
atggataaac tggcacatcc ataaaatgag aaaaaataa aaagctatta 9655460
agccatgaaa agacatagag gaaccttaaa agcatactac taagtaaaat 9655410
aagccagtct gaaaggctac atactatatg attcceaata tatgacattc 9655360
tagaaaagac aaaacatgc agactataaa atgatcagtg attgctagat 9655310
gctgggggag ggagggatga ataggtggag agcagggtaa ttactctgta 9655260

tgatacttca acagtcagta taagacatta tgcatttggt gaaacacata 9655210
gaatatacag cacaaagagt ggaccctaac ataaactgtg gactttgggt 9655160
gatttaaaaa caggtgggtg caggagccta tagtcccagc tacgcgggag 9655110
gatcacttga ggccaagagt tagaggctgt agtgtgataa atgcaactgt 9655060
gaataccgcg tacattccag cctgagcaac ttagcgagat cctccttttc 9655010
ttttttgaga tggagtctcg ctgtgtctcc catgctggag tgcaatggca 9654960
tgatcttggc tcaactgcaag ctctgtctcc tgggttcatg ccattctctt 9654910
gcctcagcct cccaagtagc tgggactaca ggcccccca ccaccacgcc 9654860
cggctaattt tttgtatttt tagtagagac ggggtttcac tgtgttagcc 9654810
aggatggtct caatctcctg accttgtgat ctgcccgcct tggcctccca 9654760
aagtgttggg attacaggcg tgagccaccg tgcctggcct gagaccctgt 9654710
ctctttttat ttatatatat atatatatat atatatatat atatatatat 9654660
atatatatat atttatattt taaatttaag ttctaggata catgtgcaca 9654610
acgtgcaggt ttgttacata tgtatacatg tgccatggtg gtgtgctgca 9654560
ccattaact cgtcatttac attaggtata tctcctaag ctatcccttc 9654510
cccctcccc ctccccccac cccacgacag gcaccggtgt gtgatgttcc 9654460
ccttctgtg tccaagtggt ctcatgttc aattcccacc tttgagtgag 9654410
aacatgctgt gtttggcttt tgtccttgcg atagtttgct gagaatgatg 9654360
gtttccagct tcatccatgt ccctacgaag gacatgaact catccttttt 9654310
tatggctgca tagtattcca tgggtgtatat gtgccacatt ttcttaatcc 9654260
agtctatcat tgttggaaca tgttgaacaa taatgtagag tggatgaga 9654210
aaagaaaaag aactaatta gcttttggga atcttttaat ttcttttttt 9654160
cttttctttt tttttttttt gagatggagt tttctcttgt tgcccaggct 9654110
ggagtgcaat ggtgtgatct tggctcactg caacctccgc ctcccggatt 9654060
caagcaattc tcctgcctct ttctcctgag cagctgggat tacaggcatg 9654010
cgccatcacg accagctaat tttgtatttt tagtagagat ggggtttctt 9653960
catgttggtc aggctggctc tcaggtgatc cgtctgcctc ggctcccaa 9653910
actgctggat tacaggcgtg agccaccgtg cttggcctta atttctaaat 9653860

ttatTTTTTT cttatggtac tttgttttag gggaaaaaat ctctcaaact 9653810
gtgttttccc tctattctca catcacaacc atcatcatca acacagaaga 9653760
cttgtgtgac cagaccaaac gtgtggggat ttccccctac atatcaagca 9653710
gtagacatca gctaggtgtc ctccaattca attcaaacac tctccacccg 9653660
gaaatagtat cagatctcac agtttgaggg cccagtccca caagactgac 9653610
tgttccctcc tccccaccag ttacaagtct gagcctccag aacttctgac 9653560
caactggcct caagttgggg tttccacatt ctctcttttg ggtctgatta 9653510
atttgcttaa gtggctcaca gaactcaggg aaaagcttaa cttagtttat 9653460
gggtttatta cataggatat tttaaaggat acaaagaagc tgggtgcggt 9653410
ggctcacgcc tgtaatcca gcactttggg aggccgaggt gggtagatac 9653360
ctgaggtcag gagtttgaga ccagcctgac caacatggtg aaacctcgtc 9653310
tctactaaaa atacaaaaat tagccaggtg tggtggtgca tgcctataat 9653260
ctcagccact cgggaggctg aggcaggaga agtgcttgaa cctgggaggc 9653210
agagattgca gtgagctgag attgcccac tgtactggtc aacagagga 9653160
gtctttgtct caaaaaataa aaaaaaaga aaggatacaa agaaatagcc 9653110
aatgaaggg atacataggg cgaggtctgg aagggtcccg agtacaggag 9653060
cttctgtccc catggagttg ggatgtacct ccctcctggc acacgaatga 9653010
gttttgacc ttctgtcaa cctccatgta ttcaaaatgc tctctggaag 9652960
ctctctgaat cctgtttttt gagattttat ggaggcttca ttacataagc 9652910
acgaatgaca actgtgtaga aatgtgattg gacaaaatgg gtatgttctc 9652860
atactaaccg actgagtgga gaagcccacc aaggcctgtc cagattctcc 9652810
ttgacctctc tgtgcagcat tcctccctcc acagtaaagg gcaggaccct 9652760
ctctagaatg agaatgagaa tgaggatctc tggaccacaca atcagattag 9652710
agtcttgcc tggatcaggt aaaaggagga caggagaagg tcagagagag 9652660
agattctggt tcctgaggat tgctcctgag ccctaaagca cccaacatt 9652610
ataacagaag accgtaacca gggctacgga gggttgtaag ccaggagcca 9652560
tggacagaaa catacatgtg tgtacagtag ctcacgcttt tacttttttg 9652510
gagtcacaac ttcttaatgg cttgatttca tgacatattt tctttgtct 9652460

tccagaactt tcctcttaaa aaaacacagc aaaaaaacia aatttgattt 9652410
gaaatTTTTG agatTTTTTT ttaagagtca ttagcaaadc cactaatgaa 9652360
TTTTCCCCaa gcagtttagga gatatttctc ttcattacac ctttgggatt 9652310
tgagtGcttt tgctaaaaat ttaagTTTTt tttcccacta cggTTTTaat 9652260
atgaacatgt ggaaagactt cttgtataga aaaatgactt gcaaaatatt 9652210
atTTTTtCag gttctatgga gtgatttccc ccccttagga aaaaagaact 9652160
caggaatTTTt aagTTTatat gtatatatat ttatTTTTatt ttatTTTTatt 9652110
tatttatttt aagacagact ctcaactctt tgcccaggct gggggttcag 9652060
tggcctatct cggctcacag caacctccgc ctccctgggt caagcaattc 9652010
ttctggctca gcctcccaa tagctgcgat tacaggcgcc caccacaatg 9651960
cctggctagg ttttatattt ttagtagaga cagggtttca ccatgttggc 9651910
cagtctggtc tggaactcct gacctcaagt gatccagctg ccttggcctc 9651860
ccaaagtGct ggaattccag gcgtgagcca ctgtgcctgg cttttaagtt 9651810
tgatattTTa ttcagataaa tatggaaaa aaatTTtagc tttattggca 9651760
aaatTTatta ttcatataga aatcatctga taatctgata gattaagtac 9651710
agccctgcaa ctggattcta ataaaccaag tcctctaggt cattaagatt 9651660
gttattggac atgaattcag tcattgagaa aataaaacat tgTTTTgttg 9651610
ttcctcagtt gtggTTTTtG tTTTTTTTTt aagatagagt ttcactcttg 9651560
ttgcctaggc tggagtGcaa tggcatgadc tcagctcact gcaacctccg 9651510
cctcctgggt tcaagtgatt ttcctgtctc agcctcccga gtagccggga 9651460
ttacaggcgt gcgccaccac acccagctaa tTTTTgtat ttttagtaga 9651410
gatggggTTt tactatgttg gccaggctgg tctcgaactc ctgacctcag 9651360
gcgatcaacc caccttggcc tcccaaagtG ctgggattac aggtgtgagc 9651310
cactgcgcct atccgtactg tTTTTTTtac cccttgcttt tTTTTcctt 9651260
tctgctgaga tgcttttaggt tttaacagac atgtgattgg gccgaggggc 9651210
atgtgaggag gctggacaat taactacagt tagcttattg catttatcag 9651160
caccagattg tgtgtggTTg aaatggccaa ggTTtgatgt tttgttatga 9651110
atgttccagt atatcttata aattacattt tcttaaattg atttgttact 9651060

acttacaata atgtttgata gtattaaata aaatcctact tattctgtta 9651010
aattcatata attggtagaa gaatcatagt ccggttatta ctcttttttg 9650960
agacaaagtc ttactctgtc acccaggctg gagtgcagtg gtgtgatcat 9650910
agatcactgt agcctcagcc tcctgggttc aggtgatact ctcacctcag 9650860
cctcccaagt agctgggacc acagggtgtc accaccatgc ctggctaatt 9650810
tttttttttt tttttttgag acgaagtctc gccctgtctc ccaggctgga 9650760
gtgcaatggc gtgatctcag ctactgcaa cctccgcccc ctgggttcaa 9650710
gcagttctcc tgcctcagcc tcccagatag ttgagattac aggcgcgtgc 9650660
ctccatgccc agctaatttt tgtattttta gtagagacag ggtttcacca 9650610
tgttggccag gctggtctcg aactcctgac ctctgtatcc acctgcctca 9650560
gcctcccaaa gtgctgggat tacaggcgtg agccaccatg cctagcccac 9650510
ctggttaata ttttttatta tttttgtaga gatagggctc ccctgtgtta 9650460
cccaggctgg cctcaaactc ctagagtaaa gtaatcctcc catctcagcc 9650410
tcctaaagtg ctggtattat aagcatgcag ttcttattct cttgttgatc 9650360
tgattataag gctctattta agacagcata ggcccaactg gcagaagtag 9650310
gtgatggctg gatattgaga aataatgttt tctttgcatg atccttaagG 9650260
AAGCTGACCT GGTTACAAC CATGAATTGG GACATAATTT TGGAGCAGAA 9650210
CATGATCCGG ATGGTCTAGC AGAATGTGCC CCGAATGAGG ACCAGGGAGG 9650160
GAAATATGTC ATGTATCCCA TAGCTGTGAG TGGCGATCAC GAGAACAATA 9650110
AGgtatgtgt gtgtcgagaa ttttttatgt ggtttgaaa gaggctgtgt 9650060
ataatgatca taatgagagc tcagaaacgt attccattcc taggcgtttc 9650010
cctagggatg gatgtgcaaa ttacaaagta ccttgaaacg tggttgtgtg 9649960
ttttggggtg aagcacggtt catctaaatc tggttaaaac tatcatttgg 9649910
actttgttgt caagcttaat ggtgtagatt tgagctctag gaaaaattac 9649860
taataataat ggcttttttt ggagttctgg atttcagggg ctgggtgggct 9649810
caggctttat gttaaaaatt tgtcatttca tttacaagtt gtcattcatt 9649760
ttaactctac aatttacatg tacagtttac acgtttttat taacttttgc 9649710
agttaaacac atagtttgcc tgactacaag cctcatggga gaaaggccct 9649660

tccttgtctg tcttattcat agctctatct tattcatagc tctatctcca 9649610
gtgcctagta ggagtatctg gcatgtaaca aatatttggt gaataattaa 9649560
tggaatcatt tactattggg ggtttctgat agagaatact agttgatttg 9649510
tgatactgta aaacactttc agagacttta agagtgccgt gactaactct 9649460
tagagtctga actaaaagtt gtgttaataa atatctgggt ctttcatttt 9649410
atgtgaagtt aaacagcata aagcagtgtg aggaaaacaa tagttgcact 9649360
gctgagttaa agagggtcgg tggggagagc ttaaaggagt ctgattctaa 9649310
tcacaaaaga ttgtgaagta tttgtcctga ctccattttt gagcttggct 9649260
gtgggctaata gtgcaagcct tccctggaca cagagggcaa gattacttct 9649210
gcttttccct ggctctgaca ccctgctttc tgaaatttct gcctcctgtt 9649160
ctttttgtga tctttgattg ttgcatctca tttttttttg gctttttatg 9649110
tatattttct gcatctcatt ttctttggct gttatgtgta aacagttcct 9649060
ctgttacttt gcatgttatg ttttattttt cctctgcttg acaacttgtg 9649010
ccagagaaac atttttctac ccctttttgt ctactcttcc aacctgtcaa 9648960
actgttgaat tttccttctc ttttcatagt ctctgcattt ctaatcatgt 9648910
tcactatagt tcagtgctgc ccaatagaac tttctgctgc ggggcggggg 9648860
atgttttgtg tctgctctgc ccagtatagt agccactagc ccagtggagc 9648810
aattgaaatg tggctagaaa ctgaggaact gaattgtaaa ttctatttta 9648760
tttaaatttt taataatggt tgcctgtgat gggagacggg aatgggcatt 9648710
aactgtaaaa ggacatgagt gagattactg gaaggatgga aatgtcctaa 9648660
aattgactta tagcaatggg ttcaacactt ggtaaagtta ttagaaatca 9648610
ctgagttata tacttgaaat ggatcaattt tgtgatatgt gaaatatgtc 9648560
ttaataaagt tgtaataaag ccaacaaaca aaaacagcag tgtgggagca 9648510
gaggaaaagt agcgcggatg tagaggagct gtgaagtcac aagttgatta 9648460
ttgttgaagc tggtgagggg cacgggggca ttcattgatac catcctgtct 9648410
acttcataga tgcttgaata tttctgtaat agaaactgta aaatatgtga 9648360
ctaggaacaa aatttaagta gccacatatg gttggtggct accatattgc 9648310
atactgtttc tctaagtaat aggtcatatg cttcttgggt atgaggatag 9648260

tgtcagaact tgggagcaaa atgttttact ttgcagactg cctgggtgga 9648210
catgcatgct gctgactctt cctgctgccca gttctggggc tcttcaaaac 9648160
agccctgtaa gaacttgcca gtgaggcatg gtggctcaca cctgtaatcc 9648110
cagcactttg agaggccgag gtgggcagat cacttgagcc taggagttca 9648060
ggatcagcct ggacaacatg tgaaactcca tctctacaga aaatacaaaa 9648010
attagctggg catagaagca catgcttgta gtcccagcta ctcaggaggc 9647960
taaggtagga ggaacccggg gagttcaagg cggcagtgag ccaaggttgt 9647910
gctactacac tccagcctgg atgacagagt gagactttat ctcaaaaaaa 9647860
ggaaaaagaa aaaaaagaac ttgctaataga gaatggggcc tgggaagaac 9647810
tttttttttc tggagctgcc agtctgtatc aatgaagaac aatttattta 9647760
ttttgtcctg agcacatcat atttagtctg tgtttttcta gtttggttgc 9647710
ccaagtagga gtccccttgt aagaagataa tgtgcatctt ctatgtttta 9647660
tttatttatt attatttatt atgatttttt gagtggagtc tcaactctgtc 9647610
gcccaggctg gagtgcagtg gtgtgatctc tgctcactgc aacctccacc 9647560
tcccaggttc aagcgattct cctgccttag cctcctgagt agctgggggtt 9647510
acagggtgcat gccaccacac ctggccaatt tttgtagttt tagtaggatg 9647460
gggtttcacc atgttggcca ggttgggtcaa ctgactggtc aacaaactcc 9647410
tgacctcagg tgatccacct gcctcgacct ctcaaagtgc tgggattaca 9647360
ggcatgagct gctgtgcca gcctatgttt taaatgaatt ccttaataaa 9647310
aatattttta actgatgaaa agggcttaca ggacaaaaat aaagtagttc 9647260
cttgacctag aaagacagaa cccatcacc tctactaggc aagcctatga 9647210
agagcagttt gccacagtg gacttctctg tggacagatg acattagtga 9647160
aaaggaatgt aggacctttg agattgtaac ttcttaggaa ggtttgctga 9647110
acggaagagg aagtcttatg acaaggatgc aaacagaagc tgccagatct 9647060
tcagggatgt gtaggcagaa agccagagtt gcgggttggc ctttttatcg 9647010
ttagtgctct ccagctgctt gggagttgta actctgacaa atcagtgaag 9646960
aggtcttctt atctgttcac tgtgaatttt aactccattt taacctgata 9646910
aaatggaacc cagagataca tgatgttgat gaataaaccc accaaaatga 9646860

caactgcctg aggccccgat tagaataacc agaccctta gacatctgta 9646810
ctgtaacgac agatttgggc cgggcgcggt ggctcacgcc tgtaatccca 9646760
gcactttgga gaccgaggtg ggcagatcat gaggtcaaga gatcgagacc 9646710
atcctggtca acatggtgaa accctgtttc tacaaaaaat acaaaaatta 9646660
gctgggcgtg gtggcatgca cctgtagtcc tagctactca ggaggctgag 9646610
gcagaagaat cacttgaacc cgggaggcgg aggttacaat aagccaagat 9646560
tgtgcctctg tagtccagcc tggtgacaga gcaagactcc atctaaaaaa 9646510
aaaaaaaaaa aaaaaaaaaa acagatttga agatgttttt taaaaagcca 9646460
gttagtattt ctgtgtaaga tgaggtcttt gctatctttc tgaaagtagc 9646410
tcctttggtg tctgatttgg tggttacagg cacctttgga gggctcata 9646360
cacttggctc tcaggggctt catgattggt gtctggggtg aaagtgaagc 9646310
cattttggca tctgcagagc actttggaga ccccgaccta agaagtaact 9646260
atgctcagtt ttccctaagc ctcttctttt tttgataact tcaggaggtc 9646210
tggaatatga ccgcagtttt agagctcctg ataaaaccct cagccttaa 9646160
agggagttat cctagtgggt ctgtactcca gggtggaag gtagttaga 9646110
gactttttga gacactggtc ttgctggtt atgaaaatgt ttaggtaaca 9646060
attggggatt taatttatat aaaatgtact attatgccta ttactaagct 9646010
caaatattta aacaacttta aacttgatc atccatataa gtagccaaag 9645960
aaggagaaga aacccttct cctgcatttc tgaattgttt tgtctgggac 9645910
aacattaacc tacagaggtt cttaattctt gtcactgcat gagtggcatg 9645860
cctgaggtga ggagatttca agtctgatgg agctacgagc tctctgttgt 9645810
gctattctgc ttgtccttaa gtgggctttg actgggatgt ttggtctcag 9645760
tatttgata gcttgcttac cttcgtaaga agaattatag atccttaacc 9645710
aagttcacat cagccattta gcattctatg gagggaggtt cccagttcca 9645660
tatcagtggt ctttgaggga gactgtggtg gccttgccat aactccaggg 9645610
tggctctgat ggtggtttta cattaagagt ttgtctctag agaagacaca 9645560
aacattgcat ggaatacat ttttatgata ttattttggg tccttattgc 9645510
ctttttctc tcaagATGTT TTCAAAGTGC AGTAAACAAT CAATCTATAA 9645460

GACCATTGAA AGTAAGGCC AGGAGTGTTT TCAAGAACGC AGCAATAAAG 9645410
TTTGTGGGAA CTCGAGGGTG GATGAAGGAG AAGAGTGTGA TCCTGGCATC 9645360
ATGTATCTGA ACAACGACAC CTGCTGCAAC AGCGACTGCA CGTTGAAGGA 9645310
AGGTGTCCAG TGCAGgtgag gagtctctcc acagggattt tgggaagtgt 9645260
gtataacaag atgtccaaaa taagagaaga ctgaacttgc aggggcttta 9645210
gaatcaactg aaaggggtgt gagtgtgttt gtttacatct acctcttttg 9645160
cccttcacag caagaaattg ctttctgggc ctggcacggt ggctcactcc 9645110
tgtcatccca gcactctggg aggctgaggt gggagaaatg cttgagaaca 9645060
gcctgggcaa catagtgaga cactatctct taaaaaaca aaaacaaata 9645010
agaaaagaag aagctttctg gaaagcagtg tgacattatg taacaaaatc 9644960
cttgacctg catgctcctt ggtttagcag tcctatagtt aaaagaatct 9644910
ttttttttt ttttttctc gagacagagt cttgctctgt cgccaggctg 9644860
gagtgcagtg gcgcatctt ggcttactgc aatctttgtc tcccgggttc 9644810
aagtgattcc cctgccttag cctcctgagt agtgggacta caggcacgca 9644760
ccaccatgcc cggctaattt tttgtattag tagagacgag gtttcactac 9644710
ggtagccagg atggtctcca actcctgacc ttgtgatcca tccacctgg 9644660
cctcccaaag tgctgggatt acaggtgtga ggcaccgtgc ctggcaaaat 9644610
aatctttttt atttaattta atttatztat ttattttgag acggcgtctc 9644560
gctctgttgc caggctggag tgcagtggcg cgatctcagc gcactgcaat 9644510
ctccgcctcc caggttcaag cgattcccct gcctcagcct cccaataac 9644460
tgggactaca ggtacgcacc atcacgcctg gctgattttt tgtattttag 9644410
tagagacgga gttttagcat gttggccagg atggtctcga tctcctgact 9644360
tcatgatctg cccaccttgg cctcccaaag tgctgggatt acagagggga 9644310
gccaccgtgc ctggccttta ttttctttt gagacagggc ctcagtctgt 9644260
tgcccaagat ggagtgcagt ggcattgatca tggctcactg cagcctcaac 9644210
ctcccaggct caatcagtcc ttccacctca gcctcccga tagacaggac 9644160
tacaggtgtg tgccacctg ctaattttt ttgtatttt tatagagatg 9644110
gggttttgc atgttgcca agcttgtgt aaagtcctgg gctcaagtga 9644060

tccacccttc taagcctcct aaagtgtgga gattctaggt atgaggcacc 9644010
atgcctggcc caaataatct tttatttctt tttttttttt tttgagacgg 9643960
agtcttgctc tgtcgcccag gctggagtgc agtggcgtga tcttggctca 9643910
ctgcaacctc cgcctcctgg gttcaagcca tccccctgcc tcagcctccc 9643860
cagtagctgg gattacagtg tgcaccacca cgcccagcta atttttgtgt 9643810
ttttagtaga gatgggggtt caccatgttg gccaggctgg tctcgaactc 9643760
ctgacttcgt gatctgcctg cctcagcctc ccaaagtgtt gggattacag 9643710
gcgtgagcca ctgctcctgg ctgccc aaag aatcttttgg gcaacagaga 9643660
taagatttaa caagggtata agatttaaca aggttttttt atggctacat 9643610
cctaatagca aaattttgga aacaatcaaa atgacagtct tgggatatga 9643560
atgttatcat gattctatat actggaatag tgtggaggaa gtaggttaca 9643510
agttagaaag ttaccaggt tttcattttt tatatacact gatagaccag 9643460
tgcctggctt agaagtaaaa gggttaaact tcagttttct ggtgaataat 9643410
tgagatttaa ctggatacag tgcatattaa cgctgtaaact actgatgggg 9643360
agtagagttc tggctgccga gtgtcttagc tatggattgc cttgtggccc 9643310
caccttgtct tttttttttt tccttgtctt tttttttttt tttgagagag 9643260
tctcgccctg ttgaccaggc tggagtgcag tggcgcgatc ttggctcacc 9643210
gcaacctctg ccttccaggc tcaagctatt ctccctgcctt agcctcccga 9643160
gtagctggga ttacaggcat gtagcaccat gcccggttaa ttttttgtat 9643110
ctttagtaga gacggagttt caccatgttg gccaggctgg tctcaaacc 9643060
ctaacctcgt ggtccacctg cctcatcttt tttttttttt tttttttttt 9643010
tgagacagaa tttctctctt gttgcctagg ctggagtgca gtggtgcat 9642960
ctcggctcac tgcaacctct gtctccgggg tccaggcgat tctcctgcct 9642910
cagccttcta agtagctggg attacaggag cgcaccacca cgcccagcta 9642860
atttttgtat ttttagtaga gatgggggtt caccatgttg gccaggctca 9642810
tctcgaactc tcctgacctc aggtgatcca cccacctcgg cctcccaaag 9642760
tgttgggttg ggattatagg tgtgagccac ctgcgccagc ccatcttctc 9642710
ttttttaaat taatgcgta aatgaatgaa aaccaagggc accaagatgt 9642660

ttcacaggtg attgctgtgt tcccattctt ttctcctata gtgtggcatt 9642610
tatgtgacct cacgcacatt aggaagggac aaagtgtgtg caggtagctc 9642560
tagcagcggg gatgtctgat gatgtaggag tgggtgacgg agccaggagg 9642510
tcttccccgg tgatcttcag gtcactgtaa cgtaactgta gcgtttgatt 9642460
tgatatgggg ccataatttg aattgctctg ttctgtctg ctgttcttct 9642410
ccagTGACAG GAACAGTCCT TGCTGTAAAA ACTGTCAGTT TGAGACTGCC 9642360
CAGAAGAAGT GCCAGGAGGC GATTAATGCT ACTTGCAAAG GCGTGTCCTA 9642310
CTGCACAGgt tcgtgttctt gttgcttctt tggaatgctg tgggtcaagt 9642260
gtgtgtgtgt ctttgaaaaa caagattatg ttttgttcag atgagagaca 9642210
ccttattttt aatctcatat gccgggttga gtttctggca ctccctagtt 9642160
tgtgacactt ggctttgggtg ggtttaagac ctgtttctat ttctctttca 9642110
tttccatcac tctcctcttt ctccctcacag acatccactc tactgtggtt 9642060
aatatttgcc tggatatgtg tatatccttg aaagatcata tagtgttatt 9642010
ttgtgcatgt atgtgttttt aatgtgcaa aatgatattc taccttaaatt 9641960
ttacttttaa aaaattcagt atcatgtttt aaagaattac ccatattgtg 9641910
ctacagataa tataacaagg tttttaatgg ctacatccta atagcaaaat 9641860
tttggaaaca atcaaaatga caatcttggg ataatgaatg ttatcatgaa 9641810
tctatgcact ggaatagtgt ggaggaagca ggatacaagt tagaagggtg 9641760
accagttttt ctatatgtat ctatatgtat ttcactgttg gggacaccta 9641710
catattgttt agttatatga ttggctgtgt tttacttaca agtcaccaag 9641660
tggtagctac ttccattgcc ttcatcccct tgatattcca gataggacac 9641610
agatcacatc ctccacgtc ccttcaggaa cctgtgtgtt tctctgggta 9641560
ctgaggagtg tcattgtgta gtcacagagg caggatgtgc tgggtctctag 9641510
agcaccactg ctaggttgcc tgtgtctgag gactccttat cctgacgttc 9641460
tggccaacgc ttggaattac cctgctgtcc tattagcatg atgagtataa 9641410
agtaatctct tgttcttact ttttttttta acagcccttg tcctaattgca 9641360
cttacttaca tttttcttga gcatctcttt atatttttca gctattcaga 9641310
tttctcctgt gaatagccag ttcatatatt tggttcattt tttaaaaatt 9641260

gggtttcatg ttatttcact actgtgaatt tggaggagtt cttatgtaat 9641210
catccatttg ggcatacgtc tcctatctgt tgccattctc agaacagaaa 9641160
tctttaacgt aatcaaatcc atcattttgt tgtgtgtgtg tattttttaa 9641110
acacatgggt cagaaaagcc atggcggatg gttaaaaaga tattttccac 9641060
agctgcttct attagcttca taagttgtcc ttttacattc aggacttgaa 9641010
tctttctgga gctaaccttt ccagggtgtcc agtatctttt gttcgggtcaa 9640960
ttgttgcttt aaaaatttca aagctatggt attactaggt atataaacgg 9640910
acatatctct acatctttat ctgctgttcc ttaccagtat ataatgttcc 9640860
ttttttaccc ttgcgatggt ttttgactta aattgtcaaa aagcaatatt 9640810
cagtttgcta ttctagtttt tttgttcctc tgatatact atctgtccca 9640760
ttcttatatt tttcaaaatt tgtctctctt ggttggttg tttgattttg 9640710
taatagcttt attgatacat aattcacact catgtagttt gccatttaa 9640660
agtgtacagt ttaatgattt ttagtatatt cagatttatg cagtcatcac 9640610
aattaatttt agaacattta cttactcca gaaagaaacc ctgtatcctt 9640560
tagctatgat cctccaatcc cccattccc cacaactcag agcaaccact 9640510
aaccacccta ttctttatgg agttgtctgt tttgaacatt tcatataaat 9640460
ggaattatac aatatggttt cgtgaccaca tattgtatga ctggcttctt 9640410
tactgaaca tagcattttt aaggttcatg tatgtttag catgtatcag 9640360
tacttcatgt acttttattg ctgggtaa atccattgcat ggatatgcca 9640310
cattttgttt attcattcat tggttgatag acatttgggt tgcttccact 9640260
tttttgctat aacaaataat gctgctgtga acatttatct atgagttttt 9640210
gtgtggacag ttcctttgga tattattcag gaatagaatt tctgggtcat 9640160
gtggtaacta tgcttaatct tttgaggagc tgtcagactg ttttccaaaa 9640110
tggctacacc attttacagt ctcagcagca ttgtatgagg gtcccagctt 9640060
ctccatatcc tcaccaacac ttgttatctt ttttattgta actatcctag 9640010
gttttgatg aaggatgcaa acagaaagct ggaggtcttc agggacctag 9639960
tgaatgaagt tgtgtcctat tttggcttga ttttggtttt ccgtgtgcat 9639910
agtatgacat gttgcccatg tttttatctt ttgggatctg tcactatcac 9639860

attactttgc caaatgttag gaacctgatg gcccggcaca gtggctcaca 9639810
cctgtaatcc tagcactttg ggaggccgag gtgggcagat cacgagatca 9639760
ggagatcgag accatcctgg ctaacacggt gaaaccctgt gtctactaaa 9639710
agatacaaaa aattagctgg gcgtgggtggc gggcgcctgt agtcccagct 9639660
acttgggagg ctgaggcagg agaatggcgt gaaccggga ggcggagctt 9639610
gcagtgagcc gagatcacgc cactgcactc cagcctgggc aacagagcaa 9639560
gactccatct caaaaaaaaa ccaaaaaaac aaatgttagg aacctgaata 9639510
tctaaatcaa gctttaaaga agcatttgct agctatgctc aatgtttcat 9639460
cttcactgta ataataaaat agattgagaa aaatgctttc ttttaaataa 9639410
acgtaagtaa aacaatttga aaacgtttgt tcttatcaaa cagccttttg 9639360
ttcccttgat attttataca aaatagtaga tagcagagga taagtccctg 9639310
ataaggaatc agtattttct agcaggaaaa gctagagAAC aacaacctca 9639260
aaaaaaaaaa aaaaaaagaa gaagaaagaa aaaaagcaat tagcatttca 9639210
caaccagcag cagcagcatc acctgggagc ttattagaaa tggaaattgt 9639160
cagtcccctc cctggatcta ctgcatcaaa aaatgtggga agggaggcca 9639110
gcagtctgtg ctgtgtaacc ttctgtcagg tgatttccat gcatgctaaa 9639060
ctttggggac catgctagat agatgatacc attttcagaa ttattttcct 9639010
acctgtctaa tactctgact ttagtctttt aagaacagat gctcaacaga 9638960
tatttattga gcatttttta atgtatcagg gcagtatcat ataccaaaaa 9638910
tacaataatg atccacaata taaaccttcc ctgagctcac tggacatcat 9638860
actttcagta atagtttggt aaatgactgt tgacatgatg aatgccagt 9638810
gctcatgaaa ggttttatga gaaccagagg caaagtgcct ggttatctgt 9638760
tggttactta ataaaccatc acttttgttt gaaactggcc agattttctg 9638710
tacattttgt gttactgctc tgaaccctc taagtcagaa ttcttttgat 9638660
tggttctcatt cttcagctga aaggccagtc cagagctgtg gatatatagt 9638610
ccattgcttt cataaagtgt ttttttctc ctccctctatt tgtgttgact 9638560
tttagctact tgtgctattc attttccaga atgattcact cattccatcc 9638510
tgtctctccc agtttaactt tctttgggtg gttttctttg gcattattgg 9638460

cctgggcaca gtggctcatg cctatcattc cagcacttgg aaggccaagg 9638410
tgggaggatc ccttgagccc agcagtttta caccagcatg gtcaacacag 9638360
ggagatctcg tctctcaaaa aaaaagaaag aaaattagcc aggtatggtg 9638310
gcgtacgcct gaaatcctag gtacttgtga ggctgaggca ggaggattgc 9638260
cggaacctag gagtttgagg ctgcagtaag ctatgatcac acccctgcct 9638210
tccagcctgg gtgacagact gagaccctgt ctcaaaaagaa aaataaaaag 9638160
aataattgat ttatttaaga aatatttga gtatacctat aatatgatag 9638110
ggattggaga taacttaata gatttgatca ttgctgtcat ggggctttcc 9638060
agtctagtag agggaaaaca gaaaataaca ttaaataat atataaaat 9638010
tgcaaacat atgcaatgaa ggagagaagg agtgtgatag tgcataatgg 9637960
aagtgggagg ccacatcaac ttagcatcct cagggatc tcagaaaacc 9637910
tttgagacaa aacttaatcc ataagaaaag ccagctaatt gccccaaaag 9637860
agtggaaaca ccagcattcc aggtagaagg aatagtatct gttaatattg 9637810
aaggaactga atggaggtg tcatagccaa agcagtgggc tgtgggagag 9637760
ttgtgtgcga tgaagtcagg gccagatagg gaaggccgtg gagttctttt 9637710
aagccttcat acaaagttg caatttattc taagtaatag cacataggat 9637660
attcttttat atatgactgt gagatgcaga agtggagacc atgcattcta 9637610
actggggctt gggaggccag ggactcatgc agcctagcct ggcacatagc 9637560
caggcactcc catttaaatg ctgattgctg gtgagatgca ggctcttgtc 9637510
ctagctctgt aggtcacttt ttgcttttgc aaggtaagat gctcacttgt 9637460
atgagaaaca gcgtattatg cacctgtaga actggtggac ctgtgactca 9637410
ttctttttgt tatgactggt gtttgcttcc agGTAATAGC AGTGAGTGCC 9637360
CGCCTCCAGG AAATGCTGAA GATGACACTG TTTGCTTGGG TCTTGGCAAG 9637310
TGTAAGGATG GGAAATGCAT CCCTTTCTGC GAGAGGGAAC AGCAGCTGGA 9637260
GTCCTGTGCA TGTAATGgtg agcagtttta ttcccagtcc agcagcagga 9637210
gaaaacatgg cctttgtctg ccaggctccc ttcctcatt tggaggttgt 9637160
gcgaatgaca gcagtgggta gatccaagcc gaggatgagg ggatggggaa 9637110
gggcagggtg gtgtctggag acaggcatct ctgcatgcag atccaccata 9637060

cctgggagac ctatcctggt ggtgtttctt cttgctgcag tttcaggcca 9637010
tatggcaggg tttgaggtgg gagaggaggg aattttgttg ggggtgagtg 9636960
ggtgggtagg tagaggtgtg tcctagcctt cctctgctcc atatcataca 9636910
aaccacaaaa gcagcagtag ctatctacat tacattggca tggaaactagg 9636860
atactcctgc aacaactcca ccagagagag ctgattccag gacctaacc 9636810
cactagatga ggatttttgc agttatcaag aaggctgggt ctgctcccct 9636760
ctgatctctt agagcagcct ggggcaggag cctctctcct gctggcctgt 9636710
cagttttcct taggtttctg tgctattttg gaaccctgg gtttgagggc 9636660
atcctcatgg actggtcagg gactggctgg actctgcttc ccacccccact 9636610
taaaccatgg gagtcgatga gggagttctc ttgctttcaa aatagacaga 9636560
gagccaggtg tggtgactca cacctgtaat cccatcactt tgggaggccg 9636510
aggtgggcag atcacttgag gtcaggagtt tgagagcagc ttggtcaaca 9636460
tggcaaacg ctgtctctac taaaaataaa aaaaattagc cgggtgtggt 9636410
agcgtacacc tgtaatcca gctgctaggg aggctgaggc aggagaattg 9636360
cttgaaccca gggggcggag gttgctgtga gctgagattg cgccgctaca 9636310
ctctagcctg ggcaacagag cgagactcca tttcaaataa ataaataaat 9636260
aagtaaaaaa taaaataaat aaaagacaaa gaaccggta gttaaataaa 9636210
atcactgggt tgggaagctca ccatccatac agtggagtga ggaactcttc 9636160
caagttcaat aatgtgtagg taaagaagat aggttgaggg cagtgtctca 9636110
catctataat cccagcactt tgggaggcca aggtgggtgg atcacttgag 9636060
ctcaggagtt gtttgagacc agcctgggca acattgtgaa acctcacctc 9636010
ttaaaaaaaaa aaaaaaaaaa ggtaacacgt agcagatgcc aaataaatct 9635960
gttgtgttga atgccaagag gcttgggggtg ctctggaagg acagagccccg 9635910
acacagtaaa agtccaagaa atattttata aattagttaa tgatgaaaag 9635860
gttttctttt tttttttttg agatggagtc tcaactctcgc ccaggctgga 9635810
gtgcagtggc gcgatctcag gtcaccgcag cctccgcctc ccgggttcaa 9635760
gtgattctcg tgcctcagcc tcctgagtag ctgggactac aggcaagcac 9635710
caccacatct ggctaatttt ttttattttt agtagagatg gggctctgcc 9635660

atgttggcca ggctgttctc gaactcctgg cctcaagtga tctgtccgcc 9635610
ttggcctccc aaagtgctgg gattacaagc gagagccact gctcccggcc 9635560
ttttctgaaa aggttttctt tttgcttggt tttgtgttct agttgatttc 9635510
tttttctcct aagtatgggt taattttctg gcatttctgc cattcttatg 9635460
tatgcccaca tggctcacag atgcccgggt ttttatcctg tgacctgtca 9635410
gagctgttct tgggaggagt tgtggagctt tggctgcagg gctcatgctc 9635360
ctggggtcac tgagctcccc acccaaggtt ggacagtgtg gtcccagctg 9635310
ctctcgttt cagggagcca gtgtggggcc tgaggggcac actttagact 9635260
gaaaaaccaa ggattgaagt cagcaggggt acaagaaagt tgggacaaag 9635210
ggaagcattt agaagagcat tgtgaggggc ttgaagggga gagaatagtt 9635160
agactttgaa gagaggctt gaatctagaa tggatttttc tctgcatttt 9635110
tttttaaacc ttgtggcctc tgtcactgaa ggctgaggag tgtgacctca 9635060
gaaactactc cttggtgggg gctatggata gtattagcta tttaaataaa 9635010
aaataaatgt gatttcttac ctctttggga gcatggtcag ggaggaaaga 9634960
ggaggcagga ggagaggcag gtctcagaac aatccagctg tcaatgcgtg 9634910
ttctctgttc cagAAACTGA CAACTCCTGC AAGGTGTGCT GCAGGGACCT 9634860
TTCTGGCCGC TGTGTGCCCT ATGTCGATGC TGAACAAAAG AACTTATTTT 9634810
TGAGGAAAGG AAAGCCCTGT ACAGTAGGAT TTTGTGACAT GAATgtgagt 9634760
atztatgtac agctttttct gtaacagcca gataggaagt ttttattttg 9634710
taagtacttg attttgcaga tgaaaacaaa tcaaaacaca agtggggcta 9634660
catccttctg gccattgtt atctacgggt attacttagg aggagaagac 9634610
ggagtgttt caggtccctg cctgtagttt ccttctgtgg tgggaggctt 9634560
tgagcccaga gactgagaag gactgggggt gggactttat ggtaaagtgt 9634510
gttggtttca ggcagtgggt cctaattatg ttttcctaga ttacttacag 9634460
aactgactaa gattgcaaaa ttattcaggg tgtgattttg aaacaggtgc 9634410
tgaatgagta ggaaagacct agaaggctgc ttgacttact taagccagac 9634360
ccttttgttc tctagagaag cataattttt ctcatgcaga atgatgggag 9634310
agggttttaa gatttacgag gcttcacagg gagtctggct gtgtttgtca 9634260

ctgtccactg tgtatgtgta gagtccttac tggaatgcct catctttagc 9634210
aaactgggtt ccttgatgtt tgtctcctgg taattctaaa tcacttgtaa 9634160
aaatggagta attatgaaag tgtaaatgac agatgttcta ctttcttggg 9634110
tactcattac gcggaagtta ttgccttgtg tcaaagatgg gaaaacgttt 9634060
gattttaatg aagcccttta catgtcagtt atttttataa agctacattg 9634010
cttctgaata cattgtgttt gggaaatgat ctgtatgtat gttttttctt 9633960
catagGGCAA ATGTGAGAAA CGAGTACAGG ATGTAATTGA ACGATTTTGG 9633910
GATTTTCATTG ACCAGCTGAG CATCAATACT TTTGgtaggt gatttcccca 9633860
gattacttac tgagagctga gtcaatttct gtgatgacat tagaaaagtg 9633810
tgctttcaga gtgatgtgct ttaattctgc agtagaaggt ggaactattc 9633760
acagctttag ttatgaaaca actttgttgg ctagaataaa atgaaactcat 9633710
agatagtctg tccccgtgga gcttgatgac acagattttc tgacaagga 9633660
aataaagtca aaatactggc ttccttcttt acccaaaaat atccatgtga 9633610
ttagcataag catagtttaa tgctatagac tgaatcctga ttgatgtaag 9633560
agtgtttatt tgactgaatg ctatatactg aatcctgctt gatgtaaaaag 9633510
tgagcctcat attttgcaga agcagggtat atcatgttgt cacgagtcca 9633460
taatttaatc acaaaaataa tatccaggta acaaaaactt tgtcttctta 9633410
agcatttact agtagtagca ttccatatta atctgttgac acagctactc 9633360
caggtaacat gttgaatatt ctgcaatctc ttcctgtcag ccagtatatg 9633310
agggctatth ctttaaaagc acttggtatg gagagatggt gtggtgtaat 9633260
acaggcagca cagacattct gctctcggta gtatgtctag ccagcagctc 9633210
tggcatttga cacaatggta atatcctaag agcatttcac tttagatttg 9633160
tgaagtactt ggtcaagaca ttaactgttt ggaattgttc acagGAAAGT 9633110
TTTTAGCAGA CAACATCGTT GGGTCTGTCC TGGTTTTCTC CTTGATATTT 9633060
TGGATTCCTT TCAGCATTCT TGTCCATTGT GTGgtaagtc atcaactttt 9633010
aagtaattaa atgttttatt taaatthtga tcaactcaa ccatgtaatc 9632960
tctggaaaag gtaaaaactg ttcttagcaa agtttggcct gatatttcca 9632910
atagcttttt ttgttggtat tcctagggga acatgtcttg tagaaagctt 9632860

aactaatggt cttttaaaaa aaatactatt tttgtgtgtt ggtgttttaa 9632810
tatataaatt tcttaggaat tttatacttt taagcatagg agactgttta 9632760
actggatttg tccaggtcct ttgatgagta aagcccttat tgaagagcat 9632710
tttcaggctg acttcgttgc aatagagcaa atatcaaaca tcggcatttc 9632660
agatgttccc catatatcat gtagattatt ggcagcagat ggctatgtct 9632610
tcagccttct gcacaaatag gatgtaggga ctggggccca gctgtcatat 9632560
agagtattta catcttcccc aaaaaataag agtaagcagt cttttctgtt 9632510
ctcattcaga atcagtaaca gctacaagtt gaattgggct ttgactaagg 9632460
aactcctggt cctttataaa tttgaggccc tttttcataa atgttcttac 9632410
gaatccattc acttgcattc gtggggaatg gggatttgtc tgctgtagag 9632360
atgagaaagt cacaccagg cttccagact tgttttccca aactcttca 9632310
tagtggcctt cctatgagca tttaaaaatt ccagcacaac tctgatgaca 9632260
aaggagtttt tcctactgcc tccttccttt cctttcctgc tggcttctcc 9632210
tgcctagggg ccatctcaca gagcagctct tcctcagggt ggtgagcatg 9632160
atgggtatag gaagatctct aggagcact tgtgctgaag aaagctgaag 9632110
gtgacgtgct tgaagctttg acagatgtct ctggatgaca gtgccatcca 9632060
tcacgattgc ttctattgga ggatggaacc tattttgttt acagggaaagt 9632010
tgcacatgtg gacaaggcac gacccttgat ttcagagcaa agcctccgat 9631960
aggagggagg gccatggcct gtttttggtc atagaatgca ttgatggcac 9631910
ccagacagga agcctagtcc tggattcttg gtccttgccc tctgtcacct 9631860
attatgcttc agccacaggc agggatgggg cagcagatgg ccatgtgggt 9631810
agccttctgc agaagtagga tgtagggatt gaggcccagt tcctccagca 9631760
gagcatggtc cacagaaact gtggagacag ctaagagagt gaggccatgg 9631710
gccggggcag tgcaagaat gctgcaggcc cagccacctg ggtcttccta 9631660
ccagttgccc ttccagtcag tgcggtcctg gtgtaccag catctgggac 9631610
atgtgtcatt tcatgcacag gaagatgcct ttattattcc cctgcccaca 9631560
gagggataaa tttctcagaa aacatagcac ttaaaccttg cctctttctg 9631510
tacttaacgc caaaatgat ttcctttgag tgcaaaggaa acacttctag 9631460

actggtggca taactaaagc ttgggtgaga aatggattgt catctgttga 9631410
gcctgctatc actttctaca actcaggttc taagttcttc agttagtgtt 9631360
aggaatagcc tgtgatgaaa tagtactcac taactgaatt gtattttag 9631310
ggaatgacct tcttgctgtt tctttctagG ATAAGAAATT GGATAAACAG 9631260
TATGAATCTC TGTCTCTGTT TCACCCCAGT gtaagtatac catatgaaag 9631210
aaacataatc ttcgcctggt ctgaggccct gttaggcaaa gaccttcacc 9631160
tgaccagca agagctttca ctggctgatg gaaggtcatg ttgcagcagg 9631110
aagggtctag gttggaatgt ttacccttct gacaacagtg atggtgaact 9631060
tcgattagtt gcatggatgg acatttaaag agctgtgctg tccccttccc 9631010
aagccataag gagtgattta gccattcaac acttagttaa tattttgagt 9630960
tcaatttctc tcttgggatc ttaccttgag aggtttgaat cctcttttgg 9630910
gtcttcaaat ggtaagtaag ttttcaggat gcttgaaagc tagtaattac 9630860
tgtttttggc attaaaagta atggcattaa ttacttttgc accaacctag 9630810
tatttttttag tcacttaggt tgagtgagcc tcacctagca cttttttctt 9630760
agcatcacag tgccaacaga ataagaggct gtttgatggg taagggtgga 9630710
gctgtgagga cctccgattc atcttttatt cctatcaatc aattgaacct 9630660
atgtctttgc agAACGTCGA AATGCTGAGC AGCATGGATT CTGCATCGGT 9630610
TCGCATTATC AAACCCTTTC CTGCGCCCCA GACTCCAGGC CGCCTGCAGC 9630560
CTGCCCTGT GATCCCTTCG GCGCCAGCAG CTCCAAACT GGACCACCAG 9630510
AGAATGGACA CCATCCAGGA AGACCCAGC ACAGACTCAC ATATGGACGA 9630460
GGATGGGTTT GAGAAGGACC CCTTCCCAA TAGCAGCACA GCTGCCAAGT 9630410
CATTTGAGGA TCTCACGGAC CATCCGGTCA CCAGAAGTGA AAAGGCTGCC 9630360
TCCTTTAAAC TGCAGCGTCA GAATCGTGT TACAGCAAAG AAACAGAGTG 9630310
CTAATTTAGT TCTCAGCTCT TCTGACTTAA GTGTGCAAAA TATTTTATA 9630260
GATTTGACCT ACAAATCAAT CACAGCTTGT ATTTTGTGAA GACTGGGAAG 9630210
TGACTTAGCA GATGCTGGTC ATGTGTTTGA ACTTCCTGCA GGTAACAGT 9630160
TCTTGTGTGG TTTGGCCCTT CTCTTTTGA AAAGGTAAGG TGAAGGTGAA 9630110
TCTAGCTTAT TTTGAGGCTT TCAGGTTTTA GTTTTTAAAA TATCTTTTGA 9630060

CCTGTGGTGC AAAAGCAGAA AATACAGCTG GATTGGGTTA TGAATATTTA 9630010
CGTTTTTGTG AATTAATCTT TTATATTGAT AACAGCACTG ACTAGGGAAA 9629960
TGATCAGTTT TTTTTTATAC ACTGTAATGA ACCGCTGAAT ATGAGGCATT 9629910
TGGCATTAT TGTGTGATGAC AACTGGAATA GTTTTTTTTTT TTTTTTTTTT 9629860
TTTTTGCCCTT CAACTAAAAA CAAAGGAGAT AAATCTAGTA TACATTGTCT 9629810
CTAAATTGTG GGTCTATTTT TAGTTATTAC CCAGAGTTTT TATGTAGCAG 9629760
GGAAAATATA TATCTAAATT TAGAAATCAT TTGGGTTAAT ATGGCTCTTC 9629710
ATAATTC TAA GACTAATGCT CTCTAGAAAC CTAACCACCT ACCTTACAGT 9629660
GAGGGCTATA CATGGTAGCC AGTTGAATTT ATGGAATCTA CCAACTGTTT 9629610
AGGGCCCTGA TTTGCTGGGC AGTTTTTCTG TATTTTATAA GTATCTTCAT 9629560
GTATCCCTGT TACTGATAGG GATACATGCT CTTAGAAAAT TCACTATTGG 9629510
CTGGGAGTGG TGGCTCATGC CTGTAATCCC AGCACTTGGG GAGGCTGAGG 9629460
TTGCGCCACT ACACTCCAGC CTGGGTGACA GAGTGAGACT CTGCCTCAA 9629410
AAAAAAAAA AAAAAAAAAA ATTCACTATC TACAAACCTA GAATATTTAA 9629360
AATACAAAGA TTGCCGTGTTT TCAAACACTA TTGAATAAGA GGGTGAGATA 9629310
TTTCTTAACA ACAACAACAA CAAAAAAAC AGGTTGTTTT GAATGTGATG 9629260
AGCCAGCCAG GAGATAGAAT ACTACCTGCC CTTAGGGTTG GGGGCTGTCC 9629210
CCACAAGACT TGATACTTCA GAAACCCTTT TTATTGACCC ACAAGCAGAT 9629160
ATTTGAATTA CTTCTTACTT TATTGCTCCA GGATTCTGGA TGGGCTGCAT 9629110
TTACTGTGTG AAGGATAAAA ATCATTAGCC TGGATTCTGA TTTCTATAAA 9629060
TTGCCATTAA AAGCTTTTTT TCCCCTAAGA ACTGAAATGT GCTCACCAGC 9629010
CAAAACATTT TAACTTGTA ATTTTGAGGG CAGTTAACCA AACCTGTGAC 9628960
TAATCATATC TCCTCCTACC CCCCATTTCC AAGGACATTT GTTACTCAGA 9628910
TACTTGTTAT ACTAATACTT GAACCTGTAC CTTATGGTAT TTGCTATCTT 9628860
TTAACTAGTC ATGATATTCT TATACTTTAG TTACACTTTT GGAATTTGAT 9628810
ACAAGGTTGA GTGGGGTGTG TGGGTGTATG TATGAGTGAA ACAGTTCTCA 9628760
AAAGAATGTA AGAAAAACCA TTTTTATAAA ATTGTGACTT TTTAAAAACA 9628710
TAGTCTTTGT CATTTATAGA ATTAACAAGC TGCTCAGGGT ATATTTTATA 9628660

GCTGTAGCAC TGATATCTGC ATTAATAAAT ACTGTCGAAA CACAA^{tggac} 9628610
ctaagtataa aacttcocctg aaaaatcatc taataactttt attattaata 9628560
tcagtggcaa aggtttaaagc ctgaggaaaa aagcgtacct ctacgtattg 9628510
acaactttga gttctgtaga taacaagcag atttgggtct cctgtgattg 9628460
gctaattggtc tccatctccc agcagactta attcaggttt tgcttctgct 9628410
acatcccgcc agtaaggaag cagcaaaggt agagaagaga cctttttctc 9628360
tatcaaaggc cagagatgcg agaacaaaaa ttcattcccc tttggagaca 9628310
aatgtagtcc atctgataaa taagatgaga agtcctagaa gggagagaaa 9628260
tcggttaaag gtgggtaact ggccacgtgt ggtagctcac ccctgtcatt 9628210
ccaacacttt ggggccgagg attactggaa gacaggagt tgagaccctg 9628160
tctctacaaa aaattttaaa aatacaaaaa ttagctgggt gtgggtggcaa 9628110
acacctgtat tcccacctac ttgggaggcg aagatgggag gatcacttaa 9628060
gccagaggat tggaggctac agtgaggat cattgcacca ctgagttcca 9628010
gcctgggtga tagactgtct cccccacag cgcgcgcgcg cgcgcgca 9627960
cacacacaca cacacacaca cacacacaca cacacacaca caaaaaggcc 9627910
ggggaggagg ggtataactt ttctaaatgc cagtgtgtac cattctctca 9627860
tttgtggccc tgcgacagaa atatcaccag ccctttcat tgtaggcatc 9627810
tgaccagagg tgtcttgac tacagtagca ctgatgtgct atttacgtag 9627760
gtgtttgaac acacagagaa ccctgactag tgctatagt ctgtctccat 9627710
attatagaat tgagtttcat gaaagtcact caccattaag tgagctggga 9627660
cctcattcca ggtcttctga atcatatgac atgattctca ggta

ADAM17 (NC_000002.11, GRCh37) - gDNA - 2026-06-16

