

TRAP1 (NC_000016.10, GRCh38) - gDNA - 2026-11-24

agctaatttt ttgtatctta gtagagatga tgggttttca ccatgttggc 3718475
caggctggtc tcggactcct gaccgcaggc agtccgccca cctcagcctc 3718425
ccaaagtgct aggattacag gcgtgagcca ccgcgcccaa ccagaactca 3718375
actcttttaa ccaattgcca atcagaaagt atctgaatcc acctatgacc 3718325
tctaagtatt tcaccctttg agttgtcctg cctttccaca cggaaccaac 3718275
ctatgtctta catgcattga ctgatgtctt atgtctctct aaaatgtata 3718225
aaaccaagca agctgtaacc caagcacctt gggccaagtt ctcaggacct 3718175
tttgagactg tgcctccctc catgcacact catatttggc tcagaataac 3718125
cttctaaata ctttagagtt tgactcttct cgacaaggac aagagaagtg 3718075
gaataaacga ataaccgcag ttttcctggt ggtattggtc actgggttca 3718025
ggttttggag tagtagccag tcaagcctgg aatccccttc ctcattcgct 3717975
ttagcttttt gtccagtctt ggtttgcaag agacttgcag cggcctagac 3717925
ggatggccgg gattcacaaa ggtcgcagac acgggaactg cttcttcccc 3717875
agcgtcgcct ccacaccctc gcgtggatac tgacatccgc cccattccag 3717825
gaatgcgcac agctaggcgc agccggccag cgtgggccgg gggcggcggg 3717775
gccacctccc ccacctccgc gcgcaaggcc cgtcgccctt gacaacgcga 3717725
tccaaggtca cggaggtccc acccccaggc ccgaccgtcc acgagacggg 3717675
tagtaccccg ccacgcgccc gagcaggcag ctgcccggac agcccggcgc 3717625
ccgccgtgac gtcaccgccc cgcgcccgag gaagccccgc cccgcgcagc 3717575
cccgtcccgc cccttcccat cgtgtacggt cccgcgtggc tgcgcgcggc 3717525
GCTCTGGGAG TACGACATGG CGCGCGAGCT GCGGGCGCTG CTGCTGTGGG 3717475
GCCGCCGCCT GCGGCCTTTG CTGCGGGCGC CGGCGCTGGC GGCCGTGCCG 3717425
GGAGgtgagg gcgtcctggc tggacgggca gcgggcgggc cgggccacgg 3717375
agacggcagg gacgtccctg tgctccgggg agcgaggcgc cggcacctgc 3717325
ttcacaggcg tgggaggtcc ggcgaggcca agcgcggcag acgcgtttac 3717275
tttcgctccg ctcctcgcca gctccagctt ggctgccttt tcctcggctg 3717225
gactcccctc gccacccgcc catgggagcc ctgaaggagg ctgggtcttg 3717175
gggggtcgcg gggtcgggcg gagcggctgc ggggtcgtcc ctcctggagc 3717125
ttcggtccag tcaggtagcg cacgtgcagg tggagccgct gcggagcgcg 3717075
gagtctttgc gggtgcatgt tgcggggaat ggactcactc ggggtgatcg 3717025
tgctagttcc atggatcgtg ctttacccct ccccgcctcc cagtagcgca 3716975
ctgagggttc atttgttaat tcgttcattg gacgcacatg tgagcgcccg 3716925
ctcagtgccc ggcgccgtgc aggttctggg gacgccacag tgaacaaaac 3716875
ctatagcagt catccgggtc cccagagcag gtggactcga tgtcgttgac 3716825
gcagctgtgt cctcggggcc tggaattgat ggatgcgcca ataaatgttt 3716775
gtaaaacaga gagaacgacc ctaacctctg ctttcccagt ccccactcgg 3716725
aggtaacaac agtgaaagtt tcggcattgc ttcggggctg tacacagtgt 3716675
tatacgtgta aatataaatg tctgcgtata agtatttttt attctaaaaa 3716625
gcctaaacca tgtatgcatt gtgctacgtt gtacttcaga aaattttaac 3716575
gctcccagca ttctttccac atcttttcat gtcagtgtat acaggtccat 3716525

gtgccttcca gtgaccacac agtattctgt atgatggacg tgtcatttgt 3716475

ttaaacattg tcctattagt ggacgcaata aaggttattt caggttttac 3716425

tttttattac aatgctgcat agaatgggtg agtacttaaa tatttgttca 3716375

cgtgcggtat ttctttagcc ttacataatt agaattttag aattgatatt 3716325

tcagagccta tgcatttttg aaatgttagc agatactgcc aaattgtcca 3716275

aaaaggcctt atcaatttat atccccttta gcaggcatca agactgccta 3716225

ttccaaaggt attttcttca acgctgaatc ttatgtcttt tcaaaaccag 3716175

tggtctataa aagatacctt gtggccgggc gcggtggctc acgcctgtaa 3716125

tcctagcact ttgggagcct gaggtgggca gatcaggagt tcaagaccag 3716075

cctggccaac atggtgaaac cctgtctcta ctaaaaatac aaaaattagc 3716025

tgggtgtggt ggcgcgcgcc tgtaatccca gcttcttggg aggctgaggc 3715975

aggagaatcg cttgaaccca ggaggcagag attgcagtga gctgagattg 3715925

caccactgca ctccagcctg ggcgacagag tgagacttca tctcaacaac 3715875

aaaaataata ataattttcc ctcagaaagt gatgctgttg ctctcttcta 3715825

gcaccagtgt ctgatcaatt atttatttat ttttttgtct ttatgaggtg 3715775

gggtttcact atgttggcca ggctggtctc cagtgcctga cctcaagtga 3715725

tctgcctgcc ttgccctcca aaatgctggg attgcaggcg tgtgtcaccg 3715675

tgcctggcca actgttctgt taatttggtt ctcgtttctt ttgtagctga 3715625

ctcgggtttt ttccccccttg gaggttaaga ttttttctct ttgtcgtttg 3715575

tggtctcgcg tccacaggtg tttgtgattc atgctttgta tcatgcactg 3715525

tcccttccat ttggaaaata tgtcagtttt cagcccaggg acattttaat 3715475

tctgtttctt tatctctttt tctttttctt ttttttgag atggagtctt 3715425

gctctgtcac ccaggctgga gtgcagtggc gcgatcttgg ctcactgcaa 3715375

gctccgcctc ccgggttcag gccattctcc tgcctcagcc tcccgagtag 3715325

ctgggacttt aggcgcccac caccatgcct ggctaatttt ttgtattttt 3715275

agtagagacg gggtttcacc ctgttagcca ggatggtctc gatctcctga 3715225

cctcgtgatc cgcccacttc ggcctcccaa agtgctggga ttacaagcgt 3715175

gagccgctgt gcccagccct ttatctcttt ttcttaaaaa ttgtctctct 3715125

cctctcgtcc tccatcttct ggtgcggtgg ttcaagcatt cctctgcctg 3715075

agtctaagaa atggaacatg ttcttggcag ccttctgcgt ggcaggtgcc 3715025

cttgtcattg tcacctgtgt ggatgaatgg gaaggtaaat tgtttggatt 3714975

gattgaacga tgagagaatt tagctaagaa aatacatgtc ttgtgcaaca 3714925

ggggagaaag aatagtttag gcagatccac ctatgtagaa aatccagacc 3714875

tcttgaaatt tttttctttt cttgggaaag tatttccagg ttgtagcatg 3714825

tgcctggctt caggtgtgcg tgtcttatgt ctgtggaatc ctctcgccca 3714775

tgctacgctg cctcagtcac ccatgagctc agccctctta ccctttcaga 3714725

cctcactgac ccctgacact gccagccctg tcacttgccc tcagaatatc 3714675

ttatttgatt ttttttgagc cggagtcttg ctctgttgcc caggctggag 3714625

tgcagtggtg caacctcagc tcaccacacc ctccgcctcc tgggttcgag 3714575

tgattctcct gacttcgcct cccacgtagc tgggactaca ggcgcatgcc 3714525

accacaccca gctaggtttt gtatttttaa tagagatggg gtttcactat 3714475

gctggccagg gtggtctcga actcctgacc tcatgatcca ctagccttgg 3714425

cctcccaaaa tgctgggatt acaggcgtga gccactgcgc ctggcctacc 3714375

ctcagaatat ttctgtgagg ggtgggctag gatatccgct tgtggacttt 3714325

atatttgtca tttttgccca taacagttta ttcagcaaat acatttccaa 3714275

tgcccccgag tcgtcaaaga aaatgtgacc ctgctgtctg gagtcatagg 3714225

tggctgctga gcagtgtacc agggccatct tggtggcctg gacagcacat 3714175

tagagaaaca agagctgctt gccccagggt aagtttcaca gatgaggagc 3714125

gatttgggcc gagtgtccaa ggctgttttc actggagggg agggaggaac 3714075

gttccatgtc tggaaagctg caggtgcaag ggtaaggaga tagctctgaa 3714025

taattggttt gatgaaagac ttgcgggagt gtgcaggagt gatggtgaat 3713975

gaggctagca gttgtgtctt ttctgtcaga tataagcttg tgcgtaggag 3713925

cctcatcctg cattcctcag gacagtcaca gagccagccc tgggcctggt 3713875

gtgtggggag cccagccacg tggcccacca tgagagcttt tcgtcagagc 3713825

tccaactgtc agaagtgtca gatgtgccag tagaaggatg aggccgcctc 3713775

ctaaaggaga gggaagacct ggaaagatca acagcagacg cagtctccca 3713725

aagcaaacgt gattctgtgg tcaggcaggt acggtgacgg gttggtcatt 3713675

ttgcatgacg aggtgactgc cacaatcacc aagggtgccg agtccagtct 3713625

cctggtcatg ccagatgctc ttgttttcgt gaaattgcca gaacatgact 3713575

gaggcaacca cgataggact ggttggtgca ggcgttaaga tcttgggcct 3713525

ttttgttctc tgtaagctgg agcctttgct ggaacttcct gtcttggaaa 3713475

tcagagttgt gagagtaggt cccctgccag caccaggaag gtcgggagag 3713425

ctggtttcct cactttgctc agggctcaag tactagctag tttgtttcat 3713375

cttccaaaaa gagcctcacc tggaccccgc tcctgtaggt ggtgcctgcc 3713325

tgctgcgccc tccccttcag tacttcgttt tgttgacggg ttttgcctcc 3713275

tccctctgct ctccctttgt ttggagcctg tgctgtttga tttccgtgtc 3713225

ttgtgtgctg caccccttcag gagaattcag gtgaatttct ggtgctctcc 3713175

ggctgttctt ttcagagtgg aggggagtag tacttgctgg tcagttgcga 3713125

ctctgtctgt gaaacagctc tttgtgttgc tgagatgacg ctagaggtgt 3713075

agcgtccatg acatgtttgt cgtctgatta agctgtggtg ctggcactta 3713025

gacggcagag gaaggtgtgg cccagctgtc caaggccacc aggaggacct 3712975

tcagcttagt taggaccaag ggaactgagt tatctgagtg cctgaaaaag 3712925

aacacatcag gccgggcgcg gtggctctcg tctgtaatcc cagcactttg 3712875

ggaggccgag gtgggtggat cacttgagtt caggaatttg agaccaacct 3712825

ggccaacatg gcgaaacccc gtctctacta aaaatacaaa gaaattagcc 3712775

agggtggtgg caggcgcctg taatcccaga tacttgggag gctgaggcac 3712725

gagaattgct tgaacctggg aggtggaggt tggaggttgc agtgagccaa 3712675

gattgtgcca ctgcactccc tcctgggcga cagtgcaaga ctctgtcttg 3712625

gaaacaaaca catcaatccg aatgtaagag attagcaaag cgtttattgg 3712575

ttactgggtg agtagttggc ctaagctaag acaaaagagg aatctccaag 3712525

tattttgcta ccccttggca ggaagagagg gaatgcagct tgcggggtgg 3712475

ggatgggggt gtcaggttga taagaaaact gtgggaaaat aaacatttac 3712425

tcctgccccc catgtcagta aataccatgt gacaaaggtg agttccatga 3712375

aagaggctgt tactgaggcc tgtgatactt gcttgtctca aaatgctgac 3712325

atatcttttt ttttttttt ttttttttt ttttttttg agacagattc 3712275

tttctgtcgc caggctgaag tgcagtggca tgacctcagc tcactgcaac 3712225

ttccgcctcc tgaattcagg cagttctcct gcctcagcct cctgagtagc 3712175

tgggactaca ggtgcatgcc accatggcca gccaattttt gtatttttag 3712125

tagagacgag gtttcaccgt gttgggcaag atggtctcaa tcttttgacc 3712075

ttttgatctg cctgctttgg cctcccaaag tgctgggatt acagacatga 3712025

gctaccacgt cgggcctgac aaagaatctt gatagcgatt gaaaatgtat 3711975

ccattcatac tcaaatgaag taaaaagtgc ttttgggttc aaagccagag 3711925

aatgttcatg gatggcgttt ttggtgcctc aagtgtagcc agctagaact 3711875

tttcttacca ccgtcctgct tagtcctact gaagacctgc cttctactag 3711825

gaagctgctc ttagtccaca aagtggcttc cctgtagttc cacagcattt 3711775

aacaaaatag atttcaggga gtttatttgt ggtgtggctg gttatttctg 3711725

ctaaaaccac taggaattac cataaaagct gtagcttgga gaaacagtat 3711675

ctacttgcgg gagtattact gccacctgtg ttttttttgt ttttgttttg 3711625

gtttttgttt ttttttttgtt tttttcaaga tggagtcttg ctctgtttcc 3711575

caggctggag tgcagtggca cgaactcggc tcactgcaat ctccacctcc 3711525

cgggttcaag cagttctcct gcctcagcct cccaagtagc tggggctaca 3711475

ggcatgcact accgtgcccg gctaattttt gtatttttag ttgaggtaga 3711425

gtttcaccat gttggccagg ctggtcttga acttctgacc ttgtgatctg 3711375

cctgcctcgg cctcccaaag tgctgggatt acaggtgtgc gccaccgttc 3711325

ccagccctgc cattggcttt ttaaccaggt gaattcctgt agattgggta 3711275

gattgaaagg acatgtagct gaatcattgg ttttaaaagg aatggctcag 3711225

ttacttcata gccatataat taagaaatgt ggctagaagg taaaaaattg 3711175

gccaggcctg gtagctcatg cttgtaatcc cagcactttg ggggctgcgg 3711125

cgggaggatc ctgtgagttt aggagtttga gaccagcctg ggcaacctag 3711075

agagaccccc atctctacca aaaaaccctt ttttttttt ttccaattag 3711025

ctgggtgtgc ctgtggtccc agctacccaa gaggctgaag tgggaggctc 3710975

ccttaagcct tgagaagtcg aggctgcagt gagctgtgat cacgccactg 3710925

cactacagtc tgggtgacag agtgacagtg tctcaaaaaa aaaaatatat 3710875

atatatatat atatatacac acacacatat aaaagaaatt aattttgaga 3710825

tagctaaatt aaatgccata ttaagagcag gaggctattc agcaatgctg 3710775

ctgagaagaa gacagaagga cgtgggtcct tctaatgtaa ctatgtgtgt 3710725

cgggttagtg atatgcacct cgaaggagaa attaagacag cacattgcca 3710675

tgttagttca cacttgccag tatttcagca tttgtcaggc aatggaatgt 3710625

tcaagcgaat tttccacgag gctgacttta aaacatttca ttttaaccat 3710575

tatgatgaga agtctttcta gaacactcca tcatttgatg gcccatgact 3710525

gaacctctct tggatgtttt cagggtcatt attacgggtg ttaatgtttg 3710475

gtcttctgtt ttaatatgta ggctcccgta gggccattga aatgtgaaga 3710425

atccttcgtc tatgaagtgt ccccacatca aaactgcatt gtgagtgttt 3710375

atatttttgg cctctcttac tgtggcctta acttgcaggt ctgtctggag 3710325

ccctgttctc tcctttccta gtttgcagat gtggctggga aacttgttag 3710275

catcaaattg ttagaatgag atggatttca tatggggcca gtagtcttcc 3710225

atgagcaaag ctcagggtga gggcttcagg cccatatttt gactattccg 3710175

aggtgccctt tcgctttttg ttctttttct ttatgttcaa ggagttatgt 3710125

ttcctgatga atgaagtatc agtatatcat agtagagaac gattagacca 3710075

ggttctggaa cacaggaaac ctcaagaaac agtgagtgtt gagaatgcca 3710025

gagctaagaa ctcagacatt tgtgagggaa tacaggtctt tctgttcaga 3709975

atgttcatgt acttaagaat cttctcgcca ggcgcggtgg ctcacgcctg 3709925

taatcccagc actttggcag gctgaggcgg gtggatcacc tgaggttagg 3709875

agtttgagac cagcctgacc aacatggaga aaccctgtct ctacgaaaaa 3709825

tacaaaacta gccgggcgtg gtggcgcatg cctgtaatcc cagctactta 3709775

ggaggctgag gcaggagaat cgcttgaatc tgggaggtgg aggttgtggt 3709725

gtgccgagat ggcgccactg cactccagcc tggcaacaag agcgaaaact 3709675

ccgtctcaca cacacacaca aaaaaaaggg aaacaaaggt aaactgggaa 3709625

ggaaccgtgt gtaatcttcc gtaccttgca ttttccactt atattctggg 3709575

gtttgtttcc tgtcgccaca gagctctggt attccatagc gaggatgttt 3709525

tgtaatttat gtaaccctct catggcggac atttaggttg ttgctgagtt 3709475

tccccaagat aacagacggc attgccaaca gtttctcaca ccttcaccag 3709425

tgctagaatg acagtattta aaacatctgt caatctggta gtgaaaatgc 3709375

tatctcgttt taaagtgcat ttccttagtt atgagtgtgg taaaacatct 3709325

tttactagga cgtaaagcca ttgatgtttc ttgtttttgt gaatggccat 3709275

ttttctcttg aaccaatggc ctttttcttt ttttttttt tttttttgag 3709225

atggagtttt gcacttggtg cccaggctgg agtgcagtgg cgtgatcttg 3709175

gctcaccgta acctctgcgc tagccctttt aaataacttt taaaaattga 3709125

gacagtgtcg ggccaggcac ggtggctcac gcctgtaatc ccagcactgt 3709075

gggaggccga ggcgggcgga tcatgaggtc aggagatcga gaccatcctg 3709025

gctaacacgg tgaaacccca tctctactaa aaatacaaaa aattatctgg 3708975

gcatggtggc gggcgcctgt agtcccagct acttgggaag ctgaggcagg 3708925

agaatgccgt gaacccagga agcggagctt gcagtgagcc gcgatcgcac 3708875

cactgcactc cagcctcggc aacagagcaa aactccatct caaaaaaaaa 3708825

aaaaaaattg agacagagtc tgactctgtt gcccaggctg gagtgcagtg 3708775

gcgccatctc accttactgt aacctccgcc tcccgaggtt aagcagtcct 3708725

ctcgcctcag cctcacaagt agccgggatt acaggcacgc gccaccatgc 3708675

ccggctcatt tatttttatt tatttattta tttattttga gatggagtct 3708625

cgctccgtcg cccaggctgg agtgcagtgg tacaatcttg gctcactgca 3708575

acctccgtct cccaggttga agcatttctc ctgcctcagc ctccctagta 3708525

gctgggacta caggcacccg tcaccacgcc cggctaattt ttgtattttt 3708475

agtagagatg gaatttcacc atgttgatca ggctggtctt gaactcctga 3708425

cctcatgatc catccgcctc agcctcccaa agtgttggca ttacaggtgt 3708375

gagccactgc tcctggcttt ctggctaatt tttgtttttt tttgtatttt 3708325

tagtagagac agggttttgc catgttggcc aggctagtct caaactcttg 3708275

acctcgggat ctgcccgccc ccacctccca aagtgctgtg attacaggcg 3708225

tgagccacgg cactaaattt tattttagag gcagggtctt gctttgtcat 3708175

ccgggctgga gtgcagttgt gcgatcctgg ctcgctgcag gcctgacctc 3708125

ctggactcaa gtgatactcc tgcctcatcc tcccaagtgg ctgtgacctc 3708075

ttcctcccaa ggagcatgtg ccaccatgcc tggctaatta aaaaacattt 3708025

tttttagaga tggggtccca ctatattgcc ccggcttgtc ttgaactcct 3707975

ggtctcaagt gatcctccta cttctgcctg ccaaagtact gggattacac 3707925

gcaggagccg tcgtgcctgg cccccagttt ttttcttaat gtgtttgtct 3707875

ttttttttt ttttttgag ttagagtctc gctctgtctg ttgcccaggc 3707825

tggagtgcag tggcacgatc ttggctcact gcagccttcg cttcccgagt 3707775

gcaagcaagt ctcctgcctc agcctctgga gtagctggga ttacagatgc 3707725

ccgctgcgac tcccagctaa tttttgtatt tttggtagag acggggtttc 3707675

accatgttgg ccaggctggt ctcgaactcc tgacctcagg cgatccaccc 3707625

acctcagcct cccaaagtgc tgggattaca ggcatgagcc acctcacccg 3707575

ggtgtttgtc ttttgactta aatttttatg tggtccttat atttatggcc 3707525

ttttgggtta tatattttgt ttagaaacat ttcctcttaa ggccgggcgc 3707475

ggtggctcac gcttgtaatc ctagcacttt gggaggctga ggcaggtgga 3707425

tcacgagttc aggagtttga gaccatcctg gccaacatgg tgaaaccccg 3707375

tctctactaa aaatacaaaa cattagccgg gtgtggtggt gggcgcctgt 3707325

agtcccagct acttgggagg ctgaggcagg agaatggtgt gaacccggga 3707275

ggcggagctt gcagtgagcc gagatcccgc cactgcactc cagcctgggc 3707225

gacagagcga gactccgcct caaaaaaaaa aaaaaaaaaa gatttcctct 3707175

taaatcattt tttttaaaaa ctcaagatgc ctggcagttt aggaactgca 3707125

aagcaaaact acagtgagtt agcacttcct actcactagg gtggctataa 3707075

ttaaaaatta aagaaacaac aacaaaaaaa caggtgatac aaaatggata 3707025

actaggatgt ggaaaaatca gaaccctccc acactgctgg tgagaatgta 3706975

aaacggtgcg acctctgcag gaaaacattc ttgcagctcc tcacacagtc 3706925

aaaccgaatt accatatgac cccacagttc taccctgagg cacatacctt 3706875

gtagacatga aaacatgtcc acagaacagc ctacacatga atgttcatag 3706825

cagcattatt cataataacc cgaaaatgaa aacaatctga aggtccatca 3706775

gaaggtggaa acgaggctgg gtgcggttgg tcatgcctgt aattgcagca 3706725

cttcaggagg ccaaggcagg aggattgctt gaggccaaga gttgaatgcc 3706675

agcctggaca acatagtgag actccatctc gaaaaaaaat ttttaaaaat 3706625

tgctgggtgt ggtggcacat gcctgtggtc ccagccattt gggaggctga 3706575

ggtgggagaa ttgctcgagc ccaggagttt gaggctacat tgagctgtga 3706525

ttgtgccact gcacttcagc ctggtcaaag agcaagaacc tatctcaaaa 3706475

aaaaaaaaaa aaaaaaaaga gtgcaaatag gccaggagtg gtggtgcgcc 3706425

cttctaatcc cacctgcttg ggaggctgag gtgggaggat cgcttaagcc 3706375

tgccagttgg aggctaccat gcaccatgac agtgcctgta aacagccact 3706325

gcactccagg caacatagtg agacccccac cccaccccaa aacaaaagtt 3706275

acagtaaaaa gttggaagct gggcctggtg cagtggctca tgtctacaat 3706225

ctcagcactt cgggaggcta acgtgggtgg attacttgag gtcaggagtt 3706175

tgagactagc ctggccaaca tggcaaaacc cgtctctact aaaaatacaa 3706125

aaattaactg ggcgtggtgg cgggtgcctc agcaggagaa tcacttgacc 3706075

ctgggaattg gaggttgcag tgagcggaga ttacaccact gcagagtgag 3706025

actccgtctc aaaaaaaaaa aaagaaaaaa agggccggga ctggtggctc 3705975

acgcctgtaa tcccagcact ttgggaggcc gaggtgggcc gatcacctga 3705925

ggtcaggagt ttgagaccag cctgaccaac atggagaaac cccgtctcta 3705875

ctaaaaaaaa atatatatat atataaaatt agccgggtgt ggtggcacat 3705825

gcctgtaatc tcagctactc gggaggctga ggcaggagaa tcacttgaac 3705775

ccgggaggca gaggttgcag tgagccaaga tcatgtcatt gcactccagc 3705725

ctggcaacga gagtgaaact ctgtctcaca aaaaatttgg aagcaaccca 3705675

gttgcccatc atttgatgaa tggaaaaaaa taatctatac agcggagtgc 3705625

tcttcagtta taaaaaggaa tgaggtgctg atacatgcta tatgtggatg 3705575

aaccccaaag actttatgct aagtcaaaga agccagacaa aaaaccatat 3705525

attgtatgat ttcatttctg tgaagtgccc agaaaaggca aatccataga 3705475

gacagacata gatgagtagt tgccaagagc tggtgggaga gggaaaagag 3705425

agtgaacatg agtggctgta gggcttcttt tggggtgata aaaatgttct 3705375

gtagttgtcc gggcatggtg gctcatgcct gtaatcccag cactttggga 3705325

ggccgatgcg ggcggatcac gaggtcagga gatcgagacc atcctggcta 3705275

acatggtgaa accctgtgtc tactaaaaaa aaaatacaaa aaattagccg 3705225

ggtgtggtgg cgggcgcctg tagtcccagc tactcgggac gctgaggcag 3705175

gagaatggca tgaacccagg acgcagagct tacagtgagc ccagatggct 3705125

ccactgcact ccagcctggg cgacagagcg agactccgtc tcaaaaaaaa 3705075

aaatgttctg tggttagtgg tcgtggctgt acaactttgt gaatatacta 3705025

aaaccactga attgtgcact tgggtgaatt atatggcaga tgtgttacat 3704975

ctcaataaag ttactaaatc tttcatgttt tctttcagta cttttagctt 3704925

ttatttttac ttctatggtc catctggaat tcattttgac ttaataagtg 3704875

acagcggaaa ttaaaaaaaa aaaaataaga ggttggtctt gctatgttgc 3704825

ccaggctggt ctagaactcc tggcctcaag tgttcctccc aacttggcct 3704775

tccaaagcac tggggttaca aacatgagcc cctgtgccct gctggaaatt 3704725

aatttaacct ttttttgtgt gtgtttactt tttgagagtt ggggggggtct 3704675

ccctatgtta cctaggctgg cctcgagctc ctgagctcga gggagcctcc 3704625

tcctgcctgg atctccctcc caaagtgctg ggattacagg tgtgagcagc 3704575

catgcctggt ctggaaattt attttaatat tgtagcttta tattaatgtt 3704525

ctttaatatt tgatgaattt cctcagtttt ttcaaaattt ctttggctat 3704475

ttatgtacac taacttttcc acatgaattt tagaatgaga atagtttaaa 3704425

aatgtgtttg aaattttgta aatgtgttta tgtttctcgt aagtttttaa 3704375

gtgtttttta taatgcaacg ttttgtttgt tttgagacag agtcgtgctg 3704325

tcgcctaggc tcgagtgcag agatgcaatt tcagctcact gaacctctgc 3704275

ctcccaggtt caagcgattc tagtgcgttg gtctcgcgag tagctaagat 3704225

tacaggtgtg catccccatg cccagctaat ttttgtattt ttagtagaga 3704175

cgggttttca ccattttggc caggctgttc tcaaacccct gacctcagct 3704125

gatctgccta ccttggcttc tcaaagtgct gggattacag gcgtgaggca 3704075

cctcacctgg cctgtaatgt aacttttgta aatagttttg ttttttgatt 3704025

ttttttttt gagacggggt ctcgctctgt cgcccaggct ggagtgcagt 3703975

ggcgcgatct cggctcactg cacgctccgc ctcccgcgtt cactccattc 3703925

tcctgcctca gcctcccgag tagctgggac cacaggcacc cgccaccacg 3703875

cccggctaat tttttgtatt ttcaatagag actggctttc accgtgttag 3703825

ccaggatgat cttgatctcc tgacctcgtg atctgcccgc ctcggcctcc 3703775

caaagtgctg ggattacagg cgtaagccac cgcgcccagc ctaacttttg 3703725

taaatagttt tataagtagg gtatttattt tgtagattat tgatatatgt 3703675

agtccaatat gcaaacgata cagaggtata tctgatgaaa aactcgtctc 3703625

ccactgacat gcctcagaca acacccctcc tggtggcaag tccattagcc 3703575

agtttttggg tgtccttgca gagatctgcg tggcatatga gaatagctat 3703525

gcatgcatgt atcacataac atgtatatgc atttgaacac catggtagtg 3703475

tgtgcaaacc gctgttctac ctctagtgtt ttttctttgt gttagaggta 3703425

attcagcatc agcacacatt acacagcatt gtcccatttc tctataatcc 3703375

catgctttcc aagtgttacc ttacgtctgt agtttacttg ttagtcctcc 3703325

gcttgtgagt atgtagcata tgtaacagtc ttaagtgggt tatttaatga 3703275

cagtctttgg ccctagtagt gtttcagagt tttcttaaaa gatcttgcca 3703225

aaaaagaaaa aaaaggaaag attttgcttt cttggtaaat gcattcttaa 3703175

ttgtttagtt tttgttcctg gggtctctta tgtcatattt tctaactagt 3703125

tttctgtata taggacgtcc gggtgttgat ttttgtattc taccatctta 3703075

ctgaatgctt ttttttttt ttttttttt tcaagacgga gtttcactct 3703025

tgttctccag gctggagtgc aatggcagca tcttggctta ccacaacctc 3702975

cacctcctgg gttcaagcga ttctcctacc tcggcctccc aagtagctgg 3702925

gattacaggc atccacgaca acacctggct aattttgtat ttttagtaga 3702875

gatggagttt ctccatgttg gtcaggctgg tctcaaactc ccaacctcag 3702825

gtgatccgcc taccacagcc tcccaaagtg ccaggattac aggtgtgagc 3702775

caccgcaccc agctttttaa atttctctta aagacagggt ctcactttgt 3702725

cacccaggct agagtgcagt ggtgtgatct cggctcactg cagcctttac 3702675

cctctggtct caagtgatcc ttccgcctca agtaccccaa gtagctggaa 3702625

ctacaggtgc gtgtcaccat gtccacctaa gtttttgtat ttttggtagg 3702575

gacggggttt caccagtttg cccatgctgg tctcaaactc ctgggctcaa 3702525

gcgatctgcc tgcctcagcc tcctagagtg ctgggattac aggtgtgagc 3702475

cactgcccta ggccttattc tttaaaatga tctgcctctt gaaaaatgaa 3702425

agtcttttct caaaaaactt cttcccaggt ctgtgaagca gcacagtggc 3702375

cccttctggc tctcaccttg tacctcgtcc ttgtttgcct cgagcatagg 3702325

accttgtctg tgtttgtgcc tcaggccccc tccctctgtg tttgctgggt 3702275

ccacttagtc tagtcattgg gccttggctc ctaagaggcc cctagactga 3702225

attcctcatc cgatgtgtcc ataccagctt tcaagtgacc tcaacatcga 3702175

cagcagggaa aacattagca cttttgtgac agcctcatat tttcccccgc 3702125

ccgagatgga gtctcactgt gtcgcccagg ctgggattac aggtgcacgc 3702075

caccacaccc agctaatttt tgtattttta gtagagacag ggttcaccat 3702025

gttggccacg ctggtctcga actcctgact ttgtgatcca cctgccttgg 3701975

cctcccaaag tgctgggata acaggtgtga gccaccgtgc cgggcagcct 3701925

catattttta ataatttaat atctgttttg aataaataaa tatggtttga 3701875

ttaaccaaaa ccatgtgaac aggtaaagct tgagaagtct tgctgctgtt 3701825

cagagcacct gctgtcttca taaccactat tagttgcctg tgggtcctgc 3701775

cactacttac ttgtatgact gtagtaagtg cagatgtaca tattccctca 3701725

gggacgcacc cttctctgtg ttctgttact cactacatag ctcgtggaga 3701675

gcttgctgtg ttcatatata gtttggtgct ccttcgcttt ctgtagccac 3701625

tgtgaaatgc cgttcatatc ttttgcccca ggtttttctt ctggactgtc 3701575

tggctatttt ttttttttt ttttgggaca gggtcttact ctgtcaccca 3701525

gactggagtg caggggcgcg atctcagctc actgcaacct ctgcctcggg 3701475

ttcaagcgat tctcctgttt cagcctccca aagtgctggg attacaggcg 3701425

tgagctactg tgcccggctt ctgttttatt ttttggtttg attctgtcag 3701375

ttattgagag aggagtgtta agatctccag ctgtgattgt ggaattgttt 3701325

tgtctttaat tctttccgtt ttaacttcat atatgttgaa gctctgttat 3701275

taggcaaata cacacttgtg attacatttt cctgatgaat tgtttgttgt 3701225

agtattctga aatatccttc ttttttccta ataatatttt ttattttgaa 3701175

atgtatttta cttgatatta atagagccac tccagctttc ttaaacacac 3701125

tttttggatg gtatgtattt ttccattcat ttgtcttaag tgtatctttt 3701075

tctttatgtt taaagtgtct tgtagatagc atgtaattag gtcttccttt 3701025

accaattctg acaatccttg ccttataatt agagttcagt ctgttaatgt 3700975

aagagtaaat atcgatgtgg ctggatttat tgctaccatt ttattatttg 3700925

ccttttattt gtccttttgg atttttttccc tgtttttcct ttccttatca 3700875

atgaaatgta tttgagattt ccattgtggt ttatctaatg ctttttaaag 3700825

ctattcttct ttgaattatt attttagtgg ttactctggt gtttgaaata 3700775

tgcacccttg gccaggtgcg gtggctcact tctgtaatcc caccactttg 3700725

ggaggctgag gcaggaggat cccttgagcc ccagagtttg agaccagcct 3700675

gggcaacatg gagaaacccc atctctacta aaaatataaa aattagcctg 3700625

gcgtggtgat gtgcatctgt agtcccagct actcgggcgg ctgaggcccg 3700575

agaatggctt gaactgggag gcggagtttg cagtgagccg agattgtgcc 3700525

agtgcactcc agcctgggca acagagtgag actgcatctc aaacaaacaa 3700475

acaaaaaagt ctgggcgtgg tggctcacac ctgtaatcct agcactttgg 3700425

gaggccgatg tgggcggatc acctgaggtc aggagttaga gagcagcctg 3700375

accaacatgg agaaaccccg tctctacaaa aaatgcaaaa ttagccaggc 3700325

gtggtggcac atgcctgtaa tctcagctac tcgggaggct gaggcaggag 3700275

aatcgcttga acccgggagg aggaggatgg ggtgagctga gatcgcgcca 3700225

ttgcactcca gcctgggcaa caagagggaa actccatctc aaaaaaaaaa 3700175

gtttgtaaag agtagctttt gtgatagata ctttggcata ccaagaaata 3700125

tggatgttcc tgtcttcaaa gagtgttact gagaaataca agctttttcc 3700075

tgccctaatt tggtgagata aattatacat taaccaaaaa attaacagtg 3700025
ggaaatgtca tatgctggca tatagcagca gtttcaaatg agcagcacag 3699975
gctgggcgtg gtggctcaga cctgtaatcc cagcagcttt gggaggctaa 3699925
ggtaggaaga ttgcttgaga ccaggagctt aagaccagcc tggtcaacat 3699875
ggaaacaccc tatctctagg aaaaaaaaaa aaaaaagaat ttagtcctgt 3699825
gtgatggtgc ttacctgcag tcccagctgt tcaggagagt aaagcaggaa 3699775
ggtcccttga gcccaggagt tcaagactgc agtgagccat gactgtacca 3699725
ctgcactcca gcctgggtga cagagcaatc tcttttctaa gaaagaaaga 3699675
aatagtaaat acatgaataa atcttttttt ttttttttt ttttgagac 3699625
ggagtttcac tcttgtcacc caggctgctg gagtgcaatg gcacaatctc 3699575
ggctcaccgc aacctctgcc tcgtgggttc aagtgattct cctgcctcag 3699525
cctcccgagt agcggggatt acaggcaccc agtgctaatt ttgtattttt 3699475
agtagagatg gggtttcacc ctgttggtca cgctggtctt gaactcctga 3699425
cctcaggtga tccacccgcc tcggcctccc aaagtgctgg gattatggtg 3699375
tgagccactg cgcctggcca gtataaaatt tttttaaatg ggcagcataa 3699325
aaagttaagt gcagtgaact cataggaaga gattattgtg aactgctggg 3699275
gccagggagg cctgaatggg agagagggcc tgcagccagg ccctgcagca 3699225
actcggatgg gaaggagtcc cagctactga gactgcagct gcagagtgga 3699175
ggagctgcat gggcactggc agtagtgggt agggatgtgg ggggtggaag 3699125
gggaggggtg tgtggtgtca cattcaaact atcagtgctt cccattttgt 3699075
gcgaccccaa accaccagat agtttaacag taagatcttg tagcctgaca 3699025
ttgaggtttg tggtttttcc tttagggtgt aggagaaaca caaagacgga 3698975
aattgtacag ctagcgtgtt tggtatctgg ttcaggcaga tttattcctc 3698925
taatggttta ttttttttt aatttttaat ttttttttg agacagggcc 3698875
tggctgcatc tcccaccctg aaatgcagtg gcgtgatctt ggctcactgc 3698825
aacctctgcc ttgcaggctc aagtgatcct cccaagtagc tgagactaca 3698775
ggcatgcacc accacacctg gctgtttttt tgtagagatg gggttttgcc 3698725
atgttaccca ggctaatttc aaactcctga gctgaagcga ccccccggcc 3698675
ttggcctccc aaagtgctgg gattacaggc atgagccact gcacctgagt 3698625
tagtgattaa aagttgttgt agaagccggg cgcggtggct cacgcctgta 3698575
atcccagcac tttgggaggc tgaggcgggc agatcacgag gtcaggagat 3698525
caagaccatc ctggctaaca cggtgaaacc ccatctctac taaaaataca 3698475
aaaaattagc cgggcatggt ggcgggcgcc tgtagtcttg ggaggctgag 3698425
gcaggagaat ggcatgaatc cgggaggcgg agcttgcagt gagccgagat 3698375
ggcgccctgc actgcagcct gggcaacaga gtgagactct aaaaaaaaaa 3698325
aaaaaagttg ttgtggaaag tttacataac ctgaaatcaa atctgctttt 3698275
aagaatgctg tcaattcaat taatgtaatc ttggcgttat gatactaagt 3698225
cttgcaattc tggctggaaa tatagatttc ttatttttt ctttttccca 3698175
attgtgagga cttctatata ctcctcccat aatgaatatt atattaaatc 3698125
ctttcaaaaa tataggctgg gtgtagtggt ttgtgcctgt aatcccagca 3698075
ctttgggaga ctgaggcaga cggatcacga ggtcaggagt tcgagaccat 3698025
cctggccaac atggtgaaac cctgtctcta cttaaaaaag aaaaacaaaa 3697975
aaacaaaaaa acacaaaagt tagccgggca tggtggtgca cacctgcaat 3697925
cccagctact tgggaggctg aggcaggaga attgcttgaa cctgggaggc 3697875
agaggttgca gtgagccgag atcacgccat ttcactccag ctctgggcaa 3697825
cagagcaaga ccttctcgag gaaaaaaaaa aaaaattctg catattaatt 3697775
ggggaaaaac caaaaagact agaaaaatga aacatgggga aatcatgttt 3697725

aatcttagag tgaggaaggc ttttacaacc aaaagactaa tttccttttt 3697675

ttttttttt tgagacagag tcttgctctg ttgcccaggg tggagtgcag 3697625

tggcgccatc tcagctcgct gcaaactccg tctcccgggt tcatgccatt 3697575

ctcctgcctc agcctcccaa gtagctggga ctacaggcgc ccaccactac 3697525

gcctggctaa ttttttgtat ttttagtaga gacggggttt caccgtgtta 3697475

gccaggatgg tctcaatctc ctgacctcgt gatcctcccg cctcggcctc 3697425

ccaaagtgct gggattacag gtgtgagcca ccgctcctgg cgactaattt 3697375

ccttaatata taaaaagctc ttacaaatca ataagaagaa gatttaaaat 3697325

gtagtagaaa aattatcaga ggataccaac agtcccttaa caaaaaagga 3697275

aataggaaat atttaaaaat acgggacagt gctcagtttt gcttataata 3697225

agagaaatgt aagtgaaaac tgcagtgaaa attttatctg accaataggc 3697175

aaagatccaa gagtttcatc tcaacactga cttggcagga atgtaggatg 3697125

atatgcactt tagtacattg ctgtgggaac gtaaactgat aggatctctg 3697075

tggagtgtga cttggcagta tctaccactg cttcaaatac ataaccttag 3697025

gctgggcgtg gtgtcttacg gctctaatcc cagcgcttgg gaggcagagg 3696975

ccgggggatc acttgagctc aggagtttga gaccagcctg ggcaacatgg 3696925

tgaatccctg tctctacaga aaacacaaaa attagccggg tatggtggca 3696875

tgagcctgta gtctcagcta ctcggaaggt tgaggtggga ggatcacttg 3696825

aatccggagg gttgaggctg ctgtgagcca agatcactct actgcacttc 3696775

agcctgggcg acagagtgag acccagtcaa aaaaaaaaag aaaaaaaaaa 3696725

ttagctagga gtggtaatac acggcctata gtcccagcta ctcaggaggc 3696675

tgaggtggga ggatcacctg agcccgggaa ggtcgaggct gcagtgagct 3696625

gtgattgtgc cattgtgatc cagcctgggc aacagagtga gaccctgtct 3696575

caaaatagta gtaacttaca ccagccagtt attgctgtgg tgtttcctga 3696525

tggtgtgctt tctgttttct gccattcctt gtgtttattc attggaattc 3696475

tgctgtgatg aagagctgct gctcctcctc tgtttaagtg tgcaccgatg 3696425

tttgcttgat ttgccgggtc acagcttaca atccattatt gtcgttcgtt 3696375

attttgccgc acagattgtc ctagattctg ccactgggag cccttctggc 3696325

tgggctgtgt gttctcctga cacaccccgt cctttctcgt ccttctgcac 3696275

accactgggt gtcctaggct cctctgtgtg ctccgcaggg atctctggtt 3696225

cctgtttttg gagagaggta ttcacaaacc aagatctggc tgccaggtag 3696175

ggtgaccagc cgtcctagtt tgccaggaca aaggctttcc ctgggacgtg 3696125

ggactttaga gtgctgaaac tggaacagct tttggacttt gctctctgta 3696075

gcctaagtgg ggggtcatcg cgcctgggcc ctgtcacgcg tcagtggaca 3696025

gagctgggaa atgtgtgtgt gtaaatgttc cggtattgat ttctgcatcc 3695975

agtctgtaca catggcaaag gttgtgagcc tgtactgatg cctgtacctc 3695925

cagtgccgcc ccgcagggtt tattcctgcc ccttccttat cagtgacttt 3695875

tcttcaactg tgaggacccc aactcagtag ccacaatcag cttttccgct 3695825

tgatcttggc acatgcgtaa atcgggctca gacctgctga ctccgcaggg 3695775

gacacatctc ctgcccgagc ctggtgatgg tgtgctgtcc tctgaggtta 3695725

gttttacagt aacagtcaaa gtgctatttt ctgaagtctc ttaggttagt 3695675

tcttctttca gagtggtgat gtcatcgtca cagctctgca tatttgctgt 3695625

ttgtatttca ttttgtgttc atgtgcgccc tgttttgttt tcacggtttc 3695575

tttttctttt tctttttctt ttctttttttt tttttttcg agacagagtc 3695525

tcactctgtc gccaagtctg gagtacagtg gtgcgacctc ggctcactgc 3695475

aacctccacc tcctgtgttc gagcagtcct tccacctcgg cctcccgagt 3695425

agctgataac tagaagtgcg ccaccacgtc tggctaagta atggtttgtt 3695375

ttttgagtat gagaaacctg accatggttc taagagagac atacgaaaag 3695325

atgtatgtgg aagtgtcatg ttccctcagc tctgccagcc ctctcccctt 3695275

cccgctttct ttgcattctc tgtacatatg ctggttgggg gttgaattgt 3695225

gtctccccac gaaagatgtt gaagtcccag ctctcagtac ctgtgaatgt 3695175

gaccatattt ggaaataggg tctttgcagg tgatcaagtt aagatgagtt 3695125

cacttgggtg ggccctaatc cagtatgact gtgtccttat aaaatgggga 3695075

catttgaaca gacagacatg tgtagaggga gaagggcaga cgtcctgaag 3695025

ggaagacaca gggagaagat gaccacccac aagccaagca acgccagagg 3694975

ctgcagaggc tggaagaggc gcaaacagac cctccctccc agcctcagga 3694925

ggaaccagcc ctagtggcac cttgatcttg gacttcttgc ttccaggact 3694875

gtgagagaat aagtgtctgt tactgtaagc taccgggttt gtgccacggg 3694825

gagtttaata cacacctcct gtaggtaacc aagctgtggg gtttgaaggc 3694775

cgggtacagt ggctcatacc tgtcatccta gtgctttaag aggccaaagt 3694725

gggaggatta cttgagtcca ggagttcaag accaggctgg gcaacaaaga 3694675

gaaaccttgt ctctattttt attctttttt aaaaagaggc caggtatggt 3694625

ggctcacgtc tgtaatccca gcactttggg aggccaaggt gggcagatca 3694575

cttgaggtca ggagttggag accagcctgg ccaacatggt gaaaccatgt 3694525

ctcttttaaa aataaaagcc aggcatggtg gtgcgtgcct gtaatcccag 3694475

ctactaggga ggctgaggca ggagaatcgc ctgaacccag gaggcagagg 3694425

ttgcagtgag ctgagatcat gcccctgcac tccagcctgg atgacagagc 3694375

gagactctgt ctcaaaaaaa aaaagagaaa gatacgttcg cgtcctcatc 3694325

cctggtactt gtgagtgtga gcttatttgg gtcatttcag atgtatcagg 3694275

ttgtgatgag gtcacactgc atgggggtgg ggcctaactc cagtattcct 3694225

ggtatccgta taagaagagg gaaatctgga cacagccagg actcacatag 3694175

agaagagctt gccatgtgac aagagacaga gcctggaggg tctgcaaagc 3694125

atgaaacacc aaggatgccg gctactgcca gaagctgggg agaggtgcgg 3694075

gatggactct ccctcggcac ctccagtggg aagcaccgct gcccagaacc 3694025

tgggaccttt ttttttttt ttttgagaca gagtctcgct gtctcaccca 3693975

gcctgaagtg cagaagtgcg gtagtgtgat cttggctcac tacagcctca 3693925

acatcctggg ctcaagtgat cttcccacct cagcctcaca agtagctggg 3693875

actacaggtg cacaccacta cacctggcta gtttttgtgt tttttgcaga 3693825

gatggagtct cactttcttg cccaggctgg tcttaaaccc ctgggctcaa 3693775

gcgattctcc tgccttggcc tcccaaagtg ctgggattac aggtgtgagg 3693725

ttgtgtgcct ggctcagaac tgtggacctt tttgaaactg cctagtttgt 3693675

ggtgctgtgt ttcagtagtc ctaggaaaca aaatacacag tcacatcagt 3693625

ttctggttta tccttttttgt gtttctttta cacaaatggt gagaaacact 3693575

gatatgctct gtgggcaggt gttggcactt ggacacttcc ctcctgtgcc 3693525

cccagggctg gctgtgcttt ggaaggaggc acagagactt cagcaccctg 3693475

gtttgatgta gactgttcgc gaactcctct aatgccaaat accatttaat 3693425

tccagaagaa atgtcccggg attttttttt ttttttaac tgtacgaata 3693375

aagtgaacaa tgcaattaca tgggcccaaa taactggatg tttacatggt 3693325

ttggaatttg aatactttct gaattgtggt agatgttttt aaggtatctg 3693275

catagagata aagacaggct agggttggcc gggcatggtg gctcacgcct 3693225

gtaatcccag cactttggga ggcctaggtg ggtggatcac ctgaggtcaa 3693175

tagttcgaga gcagcctgac caataaggtg aaacctcgtc tctactaaaa 3693125

atacaaaaat taggcatggt ggctggtgcc tgtagtccca gctactttgg 3693075

aggctgagac aggagaatcg cttgaaccca gaagatggag gttgcagtga 3693025

gccgagatca ctgcactcca gcctgggcga cagagcgaga ctccatctca 3692975

aaaaaaaaca aaaacaaaag gccaggtttg tgctgtttgt aagtccagga 3692925

ataagcctaa agaataggca agttttggct gggcacggtg gctcatgcct 3692875

gtaatcctag cactttggga ggctgaggtg ggcagatcgc ctgaggtcaa 3692825

gagttcgaga ccagcctggc caacatggtg aaaccctgtc tctactaaaa 3692775

ctacaaaaat tagctgggtg tggtggcagg cgcctgtaaa cccagctact 3692725

cgggaggctg aggcaggaga atcgcttgaa cccgggaggt ggaggttgca 3692675

atgagccgag attgcaccat tgcactgcag cctgggcaac aagagtgaga 3692625

cttcatctca aaaaaaaaaa aaaaaaaaag gcaagttttt gtacctttta 3692575

ggagtatgaa agttgatatg ttaatttttt ttttttttg agacagaatg 3692525

ttgctctgtc acccagcctg tagtgcagcg gcacgatctc ggctcactgc 3692475

aacctccact tcccaagttc aagccattcc cctgcctcag tctcccgagt 3692425

agctgggatt acaggtgcct gccaccatgc ccggctaact tttgtatttt 3692375

tagtacagat ggggtttctc catgttggcc aggctggtct cgaactcctg 3692325

acctcatgtg atccgcctac ctcagcctcc caaagtgctg ggtttacggg 3692275

cgtgagccac cgcacccctg gctgatatgc tgatttttaa aaccttgatt 3692225

cctggatatt ctgttgtctt tcctttctac ttgttacaaa tttgtgaaga 3692175

acaggagagg ctcccagtta gatgcggttc atttaggctt agactttgac 3692125

acggcgtggc tggctggcca catatccttg acaccatcac gtattgcaaa 3692075

tctactgacc aaggcagggt cctggtatgt ggtccctggg gtcagtgggt 3692025

gttggtgttg ggtcggtcca gtcctgtgtt ggagtgaaag tgtctggttt 3691975

ctgggcctgc gtcggtgaac tgcgtgcggc tggggacaca ttggctgctt 3691925

tcctccctcg ctgggctctg ccggcaactt tctcagccca ctggactgag 3691875

caggaagtta cagaagacaa gtctccttct tagttagaag gtagaaccca 3691825

tcgtcagctg tttttcagtt tttaaagtac acaaattttt tttaaaaaat 3691775

ctgttttgga tgaaaaagca atgggaaaga atcaactttt agaagatgag 3691725

acagtttcag aatattaaca tttaaatatt tggatccctt ttgggaggat 3691675

ttttttttg cttgactgtc aagagcaaag aagtgtggcc catcgggggc 3691625

ttctgcaggg gctgcgaggg tcgagacagg tttcagtttg gtaggttgat 3691575

gcgaggtgtc acccgtgagg cgaatgtggg aagtgctgtc agcaggcatc 3691525

tgccagctgg gcatggtggc tcacgcctgt catcccagct ctttgtaagg 3691475

ccaaggcggg aagatggttt cagcccagga gttcgagacc agtcttggca 3691425

acatagcaaa accccatttc tacaaaaaat tttttaaaaa attatggggg 3691375

catggtggtc tgtgcctgtg gtcccagcta ctcgtgaggc ggaggcagga 3691325

gcattgcctg agtccaggag gttggggctg cagtgagctg tgatcgcagt 3691275

gacagagcga gacccccctct gaaaagaagg cagcagccca ccccctccag 3691225

tttcgcttct gcggttctga gaagacacag tatcttacac tgatgacatc 3691175

tgtgagggct ccttgccaaa accacaccct gacactgtgg catttggtcc 3691125

tgtggatttc tctttcagca acagcccgac ttagagatgt ccacgctagc 3691075

ttctgctaga cacccttgat gggacgaatt accatattgt ttctcgtgtc 3691025

ttcctaattc tcattctttc tgcatatttg tcttttcagG AAAACCAATT 3690975

CTGTGTCCTC GGAGGACCAC AGCCCAGTTG GGCCCCAGGC GAAACCCAGC 3690925

CTGGAGCTTG CAGGCAGGAC GACTGTTCAG CACGCAGACC GCCGAGGACA 3690875

AGGAGGAACC CCTGCACTCG ATTATCAGCA GCACAGAGAG CGTGCAGGgt 3690825

agccttggct cgtgctttgg tctgggaggg ctttttggtt cactgctgtg 3690775

cgtaaagggg cattttcagg gtggaggcag tgattggtag agccaccgcc 3690725

ttaggtgtga aatcagaagg tcttggctgt agggagtgct gcgccctcca 3690675

tttctgtccc agcgagggac ttctgccagt gtcgggtgtg tcttgccccc 3690625

tctggtggcc acccgtgagt ttgccgtccg gcacctcccc tgagtggtga 3690575

ttcatggcac atctgctaat aatcatggaa gcgggagggg aaactcagca 3690525

ttggcccagt ctgcgcagga ccgaattctg gagctgtctt ttcattccct 3690475

ctgaagtata aaaaagcagt ctttggagcc agtcctgaag tggctccatt 3690425

tctggctttt aagtgggtcg acaagagtag aatctttgaa gttaaaaaga 3690375

gaagtgaggt tttcttgtta ttttgatttc taactaatta atttggaaac 3690325

cgctttttg aagaatatag tccaggcaca gtggctcaca cttgtaatcc 3690275

cagcactttg ggaggccgag gcaggaggat tgcttgaggc caagtggtcg 3690225

agaccaacct gggcaagata gacccttct ctacagaaaa aaattaaaaa 3690175

gttagccagg catggtagca cacaccagtg gttccaggta cttgagaggc 3690125

tgaggcagga gaatcggttg agcccaggaa gttgaggctg cagtgagcac 3690075

gatcctgcca ctgcatagca gcctgggcaa cagagccaga tcctgcctct 3690025

aaaaaaaaaa gaaagaacat ataatctggt tcttagaggc agtccagttc 3689975

tcgtaaccat gcacattggg aaaccaggct cagcattccc tcgacatagc 3689925

ccgaggcatg tctggcctca gcagtgggag gatttgtcct gccctgagac 3689875

ctcctttctg agagactttt tgttttgttt tgttttgaga cagggtcttt 3689825

ctctgtcacc caggccgagt gctgtagtgc aatcatggct cactgaagcc 3689775

tcgacctccc tggctcaagt gatcctccca cctcagcccc ctgagtcact 3689725

gggaccacaa gtgtgtgcca ccaccgtcag ctactttgtg tatttttgt 3689675

agagatggcg ggatccctct gtgttgccca ggctggtctt gagctcctgg 3689625

gcttaagtga ttctcctgcc ttggcctccc aaagtgctgg gattacaggc 3689575

atgagccatg gtgcccagcc agactttgtt tctgtctgct tctttctttt 3689525

tgttcatgat cttaaatgtg tgggaggccg aggcgggcca atcatgaggt 3689475

caggagatcg aggctatcct ggctaacatg gtaaaacccc gtctctacta 3689425

aaactacaaa aaattagccg ggcgtggtgg caggcacctg tagtcccagc 3689375

tactcgggag gctgaggcaa gagaatggcg tgaacccggg aggcagagct 3689325

tgcagtgagc cgagatcgtg ccactgtact ccagcctggg tgacagagcg 3689275

agactccgtc tcaaaaaaaa aaaaaaaaaa aagtttaaaa ctcataaact 3689225

taagctttct ttggaatgtg acgtagcgta ttcttgcaca aaaatagaag 3689175

ttaaactttg ttggttgtgt ctgtgtttca ttactagGTT CCACTTCCAA 3689125

ACATGAGTTC CAGGCCGAGA CAAAGAAGCT TTTGGACATT GTTGCCCGGT 3689075

CCCTGTACTC AGAAAAAGAG gtgcgttccc tgctaaccat gcccgatgct 3689025

agcaaagttt cttttcacaa agctggtttt tatgccattc tggagaattg 3688975

ccagataata tattagctgt gagaaagcat taaactttgg acaggtcctc 3688925

atcttaagct accagtgaga ggagttttac cagaatctgt tttggtttcc 3688875

tggataagtg tatccagatg gttctttggg ctggatcaac tctgggaatt 3688825

aattgaattt tgccaataat tttaaaagtt cccgaaatac aggcctggtg 3688775

tggtggctca tgcctgggaa ctcagtgctt tgggaggtcg aggcaggagg 3688725

atcacttgag cccaggagtt tgagaccagc ctggtcaaca cagcaagact 3688675

ccgtctctac aaaaaattta aaaaattagc cagctatggg ggcactgacc 3688625

tgtggtccca gctactcagg aggctggggt gggaggatga cttgagcctg 3688575

gcagactttg gggctgcagt gagccatgat tgtgttacta cactgacctg 3688525

cacaacagag taagaccctc tctccaaaaa aaaagtcccc caaatcctag 3688475

cgtgcagctc tgctgaattc cgtctctgtg gagctttgga tacgctctga 3688425

ggcccctttg cctggtggga ctacctgcag gtcttggcgg ctttggctgc 3688375

cggaggaaga aggttcccca gtcctgtgtg tatggagcag ggaggagtta 3688325

ctgaggaaat taaaacgcat ttggggccag gtgcggtgac ccacacctgt 3688275

aatcccggca ctttaggagg ccaaggtagg aggattgtgt gagtccagga 3688225

gtctgagacc agcctaggca acgtgaagag accccatctc tattaaaaaa 3688175

aaccccgcaa aactcatttg gggtgacagg acaaggaaaa agaaagatga 3688125

aggccaccat cgttgacatg ctgattattg ctggaaggca aaggagagtc 3688075

ctgaagaaag tttgtaaagc agcagatttc aaagctcaga gggccttcta 3688025

ggagctgttt ccgggtttcg tactgatgag tgctgcattc ctgactccca 3687975

gtgacctcca gcttccgccc agatcagcca ccgcttcctc ttcacctatg 3687925

tgctcttgcg gacttaattt ttctattttt aattgtgtgg gtttttgttt 3687875

ttttttttt tggtttttta atttttgga acagggtctg ggtctgacgc 3687825

ccaggctgga gtgcagtggt atgatctcgg ctcgctgcaa cctccgcctc 3687775

ctgagctcaa gccatccttc ctcctcagcc tctggctgat atttgtattt 3687725

ttttgtagag acggagtttt gccgtgttgc ccaggctggt cttgaactcc 3687675

tgggctgagg tgatctgcct gtttcagcct cccaaagtgc tgagatcaca 3687625

ggtgtgagcc accacacccg gcctctctca ctgattttaa atggaaggtc 3687575

tgtttgaggt cagtgtgctt ttcagctcct gagggacagc tgggccctga 3687525

ggcctgtttt tctccgggtg tggtagacct ggtgtttggt ggtccccact 3687475

agatgagatg aagctaggga acctgttttt gtggagtagg agtgtattag 3687425

tccattttca cgttgctgat aaagacatac ctgagactgg gcaatttacc 3687375

aaagaaggag ctttaattgg acttacacct ccatgtggct ggggaagtct 3687325

cacagtcatg gtggaaggca aggaggaaca agtcccgtct tacatggatg 3687275

acagcaggca aagagagaat gagcaagaca caaaagcaga aaccccaaaa 3687225

aactgtcaga tctcatgaga cttactcact accacgagaa cagtactggg 3687175

gaaacggccc ccatgattca cttatctccc accaggtcct tcccacaaca 3687125

cgtgggaatt atgggagtac aattcaaggt gagattttcg tggggacaca 3687075

gccaaaccat atcaaggaga aatggatgtt tgagtgatat gccgtcatcc 3687025

ctgtgcagga gttgggaaag aaattgttcc tcgcaggcct cttttgtttg 3686975

ttttttgag acagagtctc tctctgtcgg ggctggagtg cagtggtgcc 3686925

atctcggctc actgcaacct ccgccttgtg ggttgaagcg attctcctgc 3686875

ctcagcctcc tgagtagctg ggattacagg tgtgttccat cacgcccagc 3686825

taattttaat atttttagta gagactgggt tttgccatgt tggccatgct 3686775

ggtcttgagc tcctgacctc aagtgatcca cctgcttcag cctcccaaag 3686725

tgcctggatt acaagcatga gcccccaacc ccagccagag ggctcttctt 3686675

aaagttataa ttaacagatg gacacgtaac ttcaggcttg attaaaaatc 3686625

ctgaaaaggg ccaggcaccg tggctcacgt ctgtaatccc aacactttgg 3686575

gaggcggagg cacaacgatc acttgagcct gggagatcaa gaccagcctg 3686525

ggcaacatag cgagaccctg tgtctataaa aattttaaaa caattagctg 3686475

ggtgtggtgc atgcctgtgg gcccagctac ttaggaggct gaggtgggag 3686425

gattgcttgg gtccaggagg ttaaagctgc aataagccgt gattgcagcc 3686375

tccagcctga gtgacagagt gagactctca aagaaatcct gaaaggaaag 3686325

tcagcacctt cagtcacttt gtgaccggcc cagaggaact gcctttgact 3686275

aaagcagaaa ctctttatgc tttgagaatt gactattctc ctctaccttt 3686225

taacagttat tggaagtgca gctgaccaga tagatcctgc aggatgagtg 3686175

tccttcattg tctgtgcctc ccatttctat tcctgtagGT GTTTATACGG 3686125

GAGCTGATCT CCAATGCCAG CGATGCCTTG GAAAAACTGC GTCACAAACT 3686075 R128H

GGTGTCTGAC GGCCAAGCAC TGCCAGAAAT GGAGATTCAC TTGCAGACCA 3686025

ATGCCGAGAA AGGCACCATC ACCATCCAGg tacctccctc agtgtccagg 3685975

cgtgtggcag gcccggccat gcagcaagga caggatccgc cttctagtga 3685925

tgtctcgggt cccagggacg tactggccgt ccgtaccacc aggataactc 3685875

tggctataat ttagtgttac agtagcactc attcattata gaaaattttg 3685825

gaaaagcagg taagcagaaa agaagaaaat ttgaaatcac cccatcatcc 3685775

agcaataact actggtaaca tcttagcata tggccacaca gggttttggt 3685725

atatgcaggt attaacatat ctaaacatat cttattttta atgtactctt 3685675

ttcatatttt taactgcgtt ttcccctcaa aatgccgacg aagcagtgct 3685625

gtggctgctg ctgtagcctt gtggaaattt taaggctgaa aagttaggcc 3685575

aaagaggatc aggtaggggc cctgagagac attgcatcca aagacagctg 3685525

cctcaggacc tgtcatccca gggtcacggc gtcattgcgg gggtgtctgt 3685475

ctctgtggag aggtggacag actggcctcg gtgggatctg agtattccct 3685425

tttagggtgc tggcttgctc tgaaggtcat gccacataaa tgaatgcagg 3685375

cacgcgtgaa tgaatggact tgtgaaggga tggctgtttt aattaaagga 3685325

ggggcttttg tgaggtgtca gctttacgca ctccctcttg ggtttagaga 3685275

atccagactg agccccgtgg tacgtgccag ctgtttgtca tagcccttgg 3685225

tcataaggat tgggtgggga gtgggtttct tctctccctg cctttgctga 3685175

gctggcctgg ctgtggaatg ggccctgtgg gcagggctgc agcgccctgt 3685125

gctttcctcc tgttttcagc acagaggttc cttgcagatg attgaaaatg 3685075

gatgtgctgg ggcaaggggt catggggaca tgattcttgg tctttagcag 3685025

aggggccagt cctcatgtgc cagtacttcc tggtactaag accatttatg 3684975

ttacaataat gatttttggt tttgtctttt gtcttctttt ttcttaaaga 3684925

acagttctag atttacagaa aatttgagca ggtaatttag agctccatta 3684875

tatcctttgg gacccagttt ttctattctc aatagccgat gggagcgtca 3684825

tggtccattt gtttcatctt ttttcctttt ttttggagac agagtgtggc 3684775

tgtgtcgccc aggctggagt gcagtagtgt gatctcagct cactgcagcc 3684725

tccgcctccc aggtccaagc aactctcgtg cctcagcttc ctgagtagct 3684675

gggattacgg atgtgtgcca tgatgcccaa ctaatttttg tatttttagt 3684625

agagatgggg tttcaccacg ttggccaggc tgggcttgaa ctcctgccct 3684575

caagtgatct gcccgccttg gcctcccaag tgttagatta caggcatgag 3684525

ccaccatacc cagcccattt attacaatta attaactaat attgatagat 3684475

tattcttacc taaagtttta gaaaaggaag ctttcttgtg gggtctcaga 3684425

ggtattatgc cattccatct catctactga tatctcagct acattgcttt 3684375

ttgttatttt taggggattt tctagggaat aaaatatgca gccttaattt 3684325

atcactgtct agcttgaatt gatatttaac acttcattgt aagaatctta 3684275

caacagtatc attccggtgg caaaatcatc tttttctttt gatgtcaaat 3684225

attttatgta tatacctgtt gtaaaccctc acaaattcct ttttatttt 3684175

gtttgagaca gagtctcatt ttattgccta ggctggagtg cagtggtatg 3684125

atctcacctc actgcagtga ggcctctgcc ccccggattt aagtgattct 3684075

cctgcctcag ccccccaagt agctgggttt acaggcacat gccaccacac 3684025

ccggctaatt tttgtatttt tagtagagat ggggtttcac catgttggtc 3683975

aggctggtct caaactcctg acctcaagtg atctgactgc cttggcctcc 3683925

caaagtgctg ggattacagg cgggagccac cgcgcctagt ctcaccattt 3683875

ccttttaaaa tcacattgtg cgggtcgcct ggcaacagat gatttctgtc 3683825

tacatctgaa aaatctatag ttttttttt tttttagtaa atattttaga 3683775

acagatttca attttcagaa aaattttaaa gatagtacag cgttgccatc 3683725

tactccaaca cccagcttcc cttatgattg aaaccttatg gccgggtgca 3683675

gtggctcacg cttgtaatcc cagcactttg agaggccaag gtgggcggat 3683625

cacctgaggt caggagttca agaccagcct ggccagcacg gtgaaacccc 3683575

atctctaata aaaatacaaa aattagccag atgtggtggt gtgcacctgt 3683525

aatcccagct gctcaggagg ctgaggcagg agaattgctt gaacccggga 3683475

ggcggaggtt gtggtgagct gagatcgcgc cattgcactc tagcttgggc 3683425

aacaagagtg aaactcgtct caaaaaaaaa aaaaaagaaa tgttagtata 3683375

ttacattggt tacagttaat caaccggtat ggatatatta ttcttaacac 3683325

aagtctattc aggtttcctt agtttttacc tcatgtcctt tttctctccc 3683275

agcatcccac atgacattta gttgtcctgg ccccttagct cctcttggct 3683225

gtgacagttt ctcagacttt ccttgttttt gatgaccggg aagatttttt 3683175

tttttgaaat ggggttttgc tcttgttgcc cacgctggag tgcagtggtg 3683125

tgatttcagc tcactgcaac ctccgcctcc cgggttcaag caattctctt 3683075

gccttcagtc tctcgagtag ctgggattac aggtatgtgc caccatgcct 3683025

ggctaatttt gtatttttaa tagagacaga gtttctccat gtcggtcagg 3682975

ctgatcttaa actcccggcc tcgtgtgatc tgcctgcctc ggcctcccaa 3682925

agtgctggga ttataggcat gagctaccgc acccagcctg acctggaagg 3682875

tttttatgtt tgtttagagt caggatcttc ttccgtctcc aggttggggt 3682825

gcattggtgc tatcagggtt cgctgcagcc ttgacctcct gggctcaagt 3682775

gatctaccac atcagccccc tgtagctagg gccacaggca catgccacca 3682725

tgcctggcta actttaaaaa aattattttt tttgccaggc atggtggctc 3682675

acgcctgtaa tcctagcact ttgggaggcc gtggcgggca gattgtctga 3682625

gctcaggagt tcaagaccag cctgggcaac gtggtgaaac cctgtctctg 3682575

ctgaaaatac aaaagaaatt agctgggtgt ggcagcgtgt gccggtagtc 3682525

ccagctactc gggaggctga ggcaggagaa ttgcttgaac tcgggaggcg 3682475

gaaggtgcag tgagcggaga tcacaccact gcactccagc actctagcct 3682425

gcgtgacaga gcgagaaatt ttttttttt ttttttgta gaggcagggt 3682375

cttgctttgt ggcccaggct ggtgtcaaac tcctgggctc aagcaatttt 3682325

cccaccttga ccttccaaag tgctgggatt acagatgtga gctgttgtgt 3682275

ccagccctat gttttcttct agaggtttta tagctttagc tcttatattt 3682225

agatctatga tccatttcaa gttaattttt gtgtatggtg tgaggtaggg 3682175

cttgaggttt atgttttgtt tatgggtgta cagttgtttc agtactatct 3682125

gttaatagac ctatcatccc ccattgaatt accttggaat ctttgtcaaa 3682075

aatcaagtaa tacactctct gtgcatctct gttcctgtgc tctgtttggt 3682025

tctttcatcc atgtgtcgat ccttaaatgc ccacatcgca ctgtcttaat 3681975

tattgtagct ttataggaag tcttaaaatt aggtatttta aattctccaa 3681925

cttcgttctt caaaatattt tgaaaatttt ctaagttctt tgtatttcca 3681875

tatacatttt agaatcggct tgtcattttc tacaaaacct gtgaggattt 3681825

agactgggat tgcagtgcag atcagtttgg gaaaaaataa aaataaattg 3681775

aaaataggag ctattagttg catttttcc tttaccttgg tctaacatta 3681725

acctttccct taaggactct atttaagttt ctgatgtatt aaacacttaa 3681675

atgaaactta tatttaatga ctgatatcaa ctagatacta attttaagta 3681625

gtttttatt cataattatt acatgatcta caataaatga atcaggctgg 3681575

attttggact attcaaaccg gcacctcaga aataattgcc cagaagcctc 3681525

ttggtgccat gtttcttgtt ggctgctggg gcccgtgaaa catgcacaca 3681475

tgtgtgcact gcagtaactg gtggtgatgt ggttttggca cccattctgc 3681425

ctgtgctgcc tacaatggga aggctgacag ctggccagtc tccctggcct 3681375

gctgcttgct gtggattatt tgctgagtgg cactgaccac ccttgctttg 3681325

ccaatggaga cagcactggc gcctggtgct agtgggctcc catggctcct 3681275

gcaggctgtc ctggagagga agtctttaga aaggaacttc ctagaaggaa 3681225

gttcagaaaa ctgtttctga gggcctttgt cccaattcat agatgtggag 3681175

gcttggagtg agctctttta tttaaggtgg tctgcacatc atagcagagc 3681125

aagctggggc tgtggctaca ttatgggcat gttgagcgag gatctgcaga 3681075

tgggagtctg actgggcttt gaggaaggag gagcccatgg tcagtaaggc 3681025

cttgtgtgtt caccagcgcg ttggtctgta ttgtgattca ggctgctata 3680975

gccgaatacc ttagactggg caatttataa acaacagaac cctattgctt 3680925

acagttctag aggctgggag gtccaagagc aaggggccag cagattgggc 3680875

atctggcgag ggccctttga ctcaggcagt gcctcttgca tcttcataca 3680825

gaaggtggaa ggggcaggca agctccctca agcctgtttt ctaagggccc 3680775

tactcccatt catgagagtg gagccgtcgt gacttgatca cctccccaag 3680725

gccccctcc cagtgccatc cccttgggac ttaggtctta atatatggat 3680675

ttgggtgaca ctggcactca gagcagagca gctgcaacag gataggccag 3680625

atagaggctc caacgcaagg gctctgcctt cccgcaggag aggcgtctgt 3680575

gcccgctgtt cccatggtgg tagggtggga gtaggtgccg cgtgcagagc 3680525

tgcgttccca acacctgctt cctggtgtcc tcagtcagat cattctgctg 3680475

gattgagaga gccaccagag gggatcactg ttccccagaa ccacagccag 3680425

ggagaaggcg tgggggccac atcttgatgg tgggagagct gtgcttttcc 3680375

taattgctgg tgtaatattt tcttttcgga atggttttta acaaacaaag 3680325

caactttctg ctgtcccttc ctgttttctc tggtgaggcc aagctgctat 3680275

gactagaatt agtcttttcg ttttttcttt ttttttttt gagatggagt 3680225

ctcactctgt cacccaggct ggagtgcagt ggcgcaatct cagttcactg 3680175

cagtctctgc ctcctgggtt cactgggctc aagcaatttt cctgcctcag 3680125

cctccgagta gctggaacca caggtgctcg ccatcatgcc tggctaattt 3680075

ctttttagt agagatgggg ttttaccatg ttggccaggc tggtcttgaa 3680025

ctcctggcct caagtgatcc gcctgccttg gcctcccata gtgctgggat 3679975

tacaggcatg aaccatcact cccggcccct agaattagtc ttttctgatg 3679925

agcatctggt gctacctggc tgggccctgt ctggccaatg tcattgacac 3679875

cacttgagtc cctgggactg ctggtgcact cacccggctc cccaggtgct 3679825

gggggcttgg cacttagtgc gtctctctcc tcagGATACT GGTATCGGGA 3679775

TGACACAGGA AGAGCTGGTG TCCAACCTGG GGACGATTGC CAGATCGGGG 3679725

TCAAAGgtaa gcgtggggcc cccacacagc ctccccccttc ccctcagggt 3679675

gcaaggatcc ctccagtagg ggtggccctg ggtgccagat taagtaagaa 3679625

cgttgtcagt tgcatgccac gcagtgggta ctgtgggaac acctcatgac 3679575

atgacagcca tccctcagta tctgggggtt ggtccctcag tatctagggg 3679525

ttggtttcag gacccccctt ggatagcaaa gtctgcagat gctccagtcc 3679475

cggattaaat tggtgccgta tattgtagac acatcttctt gtatgcttta 3679425

gatggtctct aggttagtta taatacctga tagaatgtaa atgctagata 3679375

tagatataac atagttatgt tttttatact actttttatc attgtgttgt 3679325

tttttatttt ttttctgagt attttcgatc cttggctggt tgaatctgca 3679275

aatgtggaac ccgtagatag gaggaccaac tgtattggct cactgcaacc 3679225

tctgcctccc ggttcaagca actctcctgc ctcagcctcc caagtagctg 3679175

ggattacagg cacgagccac cacgcctggc caatttttg tatctttagt 3679125

agagacgggg tttcaccatg ttggccgggc tatcctccag cctcagcctc 3679075

ctgaggcgtg actacaggtg cacgtcacta tgcccagacc cacagagcag 3679025

ttctgaccag aaccatcaaa cccacagacg ccgcatccca agcccgttct 3678975

catcacggcg ctgtgtgaga ggggactgat ccctctgacc ctctctgcgt 3678925

caagcccaca aggctcaggg aatcgacttt gcagaaaagt gctgtgaggc 3678875

agagcaacac atttggactc agaccaacag cctgggaacc tccagcggtc 3678825

gccctttcc agctctgggc aaagcactta cttcagtctc ctcatctgta 3678775

agatgaaaac actaggtcgg gtgcggtggc tcacgcctgt aaccccagta 3678725

ctttgggagg ccgaggcagg tggatcacga ggtcaggaga tggagaccat 3678675

cctggctaac acggtgaaac cccgtctcta ctaaaaatac aaaaattagc 3678625

tgggcgtggt ggtggtacct gtcatcccag ctactcggga ggctgaggcg 3678575

ggagaatcac ttgaacccgg gaggcagagg ttgcagtgag ctgagatcac 3678525

gccaccgcgc tccagcctgc gcgacagagc gacactccat ctcaaaaaca 3678475

acaacaacaa caacaacaaa caaaaaaccc accctaactg tgacttgacc 3678425

cccacgttac gtcttttgtt gtatttctct cgaggttggt ctgctgtcct 3678375

gtgtagcggc caccagctgc atgtggcagt ttaaatgtaa atgcattcaa 3678325

attaaataaa aggggacatt gtgctcctca gctgcacagg ccacattgca 3678275

ggtgctcggc aggctgtcgc attgcacctg gcagaacgtt cctgttgttg 3678225

gagaaagttc catcggacaa cgtgggccag ggcagtgggc gtgtgtattt 3678175

tacttgactt tggccttagg acctttggca gtattatagt agaaaaatga 3678125

agtgctgtgc ggtgcttaca gacgcatgcg cgtgatttct actctttttc 3678075

ccacaaagtg tagagtccag gagacttgaa tatggaagcc agtttggagc 3678025

ctctcctcac tcctggcctt cctatggaag gagcttattc aagggaaaga 3677975

gcttattcaa gctgctcttt ccccaccccc aggtgtgacc cacaggcctc 3677925

cacctgtctg ggacaggcag gactgtgagc tttgggaatc aaatggaaaa 3677875

cacacttgtc ccactgctgc cagctggttg tcctagggct aatgtgtcac 3677825

ctctctgtga cttagctctt cacgtgtaga atggggtgga aaagtactcg 3677775

gtgtggctgt tttcaggatg aaggggtctt agcggtgctc gcagaagagc 3677725

cacggtgttg ggagtgtctg ctctctggag gggaggctgc ctcactaact 3677675

ggcctctgcc ccacagGCCT TCCTGGATGC TCTGCAGAAC CAGGCTGAGG 3677625

CCAGCAGCAA GATCATCGGC CAGTTTGGAG TGGGTTTCTA CTCAGCTTTC 3677575

ATGGTGGCTG ACAGAGTGGA GGTCTATTCC CGCTCGGCAG CCCCGGGGAG 3677525

CCTGGGTTAC CAGTGGCTTT CAGATGGgtg agtgacgaat gtcgcctgac 3677475

aggcagctca aagctgagct ggagccctta gcatggagtt tggaaaggga 3677425

tggactcaga aaacgtacac aggcattttc tgggcttttt atatgaaatc 3677375

tgactctccc attttgggga gttagtgact tttgtggctc caggtggcct 3677325

atggcacctg tctggtccca tgtggttggt caccaccact gcgctcggga 3677275

aggcaggtcc ggcccgcgct gagctccttt ctcagtggct gagctgcagg 3677225

actggcctgt cgcctggtgg acactatgca gcctcctgtg accgaccttc 3677175

tgcaagagct cattctgctt cctcccagcc ctggcatttc ctggctttgt 3677125

ctccccagcc cacttctgcc tctatagggt gaggagcctg ctgggggctt 3677075

ttttttttt tttttccttt gggacggagt tttactcttg ttgcctaggc 3677025

tggagtgcaa tggcacaatc ttggctcact gccacctccg cctcccaggt 3676975

tcaagcaatt ggcctgcctc agcctcctga gtagctggga ctacaggcgc 3676925

atgccaccac gcccagctaa ttttgtattt ttagtagaga cagggtttct 3676875

ccatgttggt cagactggtc tcgaaccccg acctcaggtg atctgcccgt 3676825

cttggcctcc caaagtgctg ggattataga cgtgagccac cacgcctggc 3676775

tccgagggct ttttagcagg tgagccgctt ccagccagcc gaggcgtcct 3676725

ccctccgtga tgccatttct gctccacagt gtgtgcactg tgctcagctt 3676675

gactccccac tctcccaaaa ctaacattcc tgtttaattc catgggagcg 3676625

gggctcagag taaacttagg ccaaggcatc aacatggccc tgccgggggа 3676575

ttccccctc ctgtgcttcg gagatggttt tctgctcttc ttaggggcg 3676525

cctgtccccc tggcctttgt ttttgcccct gggcatctgg cacccgattt 3676475

ggagctgggc cagtccccca cagtgcccca ggcctgcttt tggggtaagc 3676425

ccagaagctt cttcgaagcc cagggtcggt ggaggacccc cgccccccg 3676375

ccccccgccc gagggaacca ggagaactct gccgcctgcg acaggctcat 3676325

cgttcctgat gggcatgtga tggcctgagt ggtgcgctgg ggtcagaaat 3676275

ggggcatttg aggtgtgttg tgtgttgttt gggctctgcc tatgaaaccc 3676225

tcgggaaccg ctggagtccc atgcagggta tgtcccagtg tcacatccac 3676175

ctggcttttc ctttctttgc ctgccttagT TCTGGAGTGT TTGAAATCGC 3676125

CGAAGCTTCG GGAGTTAGAA CCGGGACAAA AATCATCATC CACCTGAAAT 3676075

CCGACTGCAA GGAGTTTTCC AGCGAGGCCC GGGTGCGAGg tgagcgggag 3676025

cccgggccca ggctcactct gggatccatg tgtggcctgg aggccaccag 3675975

gtcagcaggc attttccctg gttctacctg cacgtagggt gcacaggcag 3675925

agccgtgaag ggccgagccg ctgcgggact gggaggggg ctgcccgcca 3675875

gggctgcgta gcatcgagct cctgctggga ctgggaggaa gctggcctgg 3675825

ctgaggcgga cctcctcctc cttcctctgc gtggcccttg gcctttagtg 3675775

cacctggggg tttggcgcag tcctgtccca ggatgtgggc gtggccttcc 3675725

ctctttgtgt cctgctggac actcagggag gccctgagta cccccaggag 3675675

tcagcccaga aagccatgtt ccagccacaa gctgacattg cagtctcgca 3675625

gcagccgggg cctccacagc tctggttctc acgtgggctc cgctgctgcc 3675575

cccgtgagac tgggggggagg acaggtgtcc ccactgtgcc ctgtttctgt 3675525

acctgtgaag tgtacacagc atggaggacc cttcccagca ggctggcgct 3675475

catcctggag ctgctgcaaa gcttgcgttt ccacaagcat tgtagatgca 3675425

gtgtggtttt tcttttgtcc cttccagATG TGGTAACGAA GTACAGCAAC 3675375

TTCGTCAGCT TCCCCTTGTA CTTGAATGGA AGGCGGATGA ACACCTTGCA 3675325

Ggtgagccct gagttcctct agggactggt caaacatgga gacaaatctg 3675275

tacgtttcag ggcagcggag aagagatgag cccaggggat gcggcccaga 3675225

gtcacagggc gagctgctct gtggagatga gacctgggtg tggggatgag 3675175

acaggggccc agctctacca cagccctgcc cctgtgcacc gggcagccgg 3675125

ggtcaggggt cagggttcac tgaggcgtaa cgcccatccc agctggctca 3675075

ccacatcagt gtgcagccat ggtgttcagt gcagccacag agctgtgcag 3675025

ccaccccgca tcaattccag aacatcccat caccccaaaa agcagccctt 3674975

tccccactgc ccctccccca gtcccagcag ccacggtctc ctttctgtcc 3674925

attgtgctgc ctgttccaga cgtttctcct ggatggagtc acacggcatg 3674875

ctgtcctcag tgactgactt ccccctcgcg gctcagctgc ggtgcagcgt 3674825

gggtcgtcat cgctctcacg gcccacactg tattcgtcag ctcgcccctg 3674775

ctgggcagcg tcatcctctc ccacaggccc cctcaggtcc cggctggtcc 3674725

tcctgacatg ttgtcctgag gagctcctgc cccagagcct tgtgtgtctc 3674675

ccctgcacta cccggcatag cccagcggtg gggctggaga ggggtctacg 3674625

cctgagacca ccgcccgtct gtcccaggag cctgtccagg gccaggcgct 3674575

gcactggctc aggcctgcac ggtggtggag aagacgtgcg tggtgaacac 3674525

gacgccctcc ccgccgatct ccgtttccag GCCATCTGGA TGATGGACCC 3674475

CAAGGATGTC CGTGAGTGGC AACATGAGGA GTTCTACCGC TACGTCGCGC 3674425 R316H

AGGCTCACGA CAAGCCCCGC TACACCCTGC ACTATAAGAC GGACGCACCG 3674375

CTCAACATCC GCAGCATCTT CTACGTGCCC GACATGgtga ggcactgtgg 3674325

cagtcccacg gccctcaggg tgactctgtt gtcccctgtg gcatcagctc 3674275

tgcagatgtc acatgattaa catggcagtg tgagggcatg aaaaacatag 3674225

gtagtgctgg gtgtggtggc tcacgcctgt tatcccagca ctttgggagg 3674175

ctgaggaggg tggatcacct gagcccagga gttgcagacc aggctggcca 3674125

acatagtgag accccatctc tgaaaaaaaa gaaaaaaaga acagatgcct 3674075

ctgggtgggt aaccacagag gtttcctctg tctcaggggt cacacatggc 3674025

gagggaagga ttgatgggca tctcagtgca ggctggggtg gaggcttgtg 3673975

gactggggtg tgcctgggga gggccctcag agcctacatc atctgctgtg 3673925

gatcagtgga tgctgtcctg ccaggcgctc tgggaagggc ctgtggtctt 3673875

gcctctccgt tggcctctct gtgtgcttcc tccacaccct ccacctcccc 3673825

tggtttcctt taccacattg aagttcccgc aaatcctgcc gtaaggagac 3673775

ctattcgggg ctgagagcca gcccgtcctg cccccaggct cttctgtcct 3673725

tggctgcctg gaaactctcc taatgtcctg cacagctggc atccatcttg 3673675

gaaagagcca gccaggtgtg gcctccaggg gcttgttaga gtctcaggcc 3673625

ccacccaggg ctcctgcgtg ggagcccaca ttttaataag atctccccgc 3673575

attttaaccg gatccccccc attttaacca ggtcgcccca cattttaacc 3673525

aggtctccca acatttgaac tagatacccg ccgcatttta accagatccc 3673475

gtgatgaggt gtgggtcccg gttcgggaag taccagtgtg gagcaggtgt 3673425

tggcaggcac gttccacgag ggccagacag gagctggtcc cagcgtttcg 3673375

ggcccggtgt ctttcgtagc cactaaccct gccgggtgag gaagcagcac 3673325

tgccctgctg ccctctgagc acacagggcc gggtcccatg agctgcgtag 3673275

acactgaaat ttgagtttca tcttcacgtc tcatgagatc atccttttg 3673225

aaatctttcc tcaactgttt gaaagtgtaa aaaccactct taggctacac 3673175

agaggtaggc agtgagctgg atctggtcgg agggctcttt gctgatccct 3673125

gacctgtagc aaggtttggc tgtgttcagt gtgttcaggg gtacgtgcaa 3673075

ggttcactct cttgtgtcct ccttaggggg tgggctgggg agggcggcag 3673025

ctgccagaga aggccttcag cccctgcaga gccacagtgt ggggcatcgt 3672975

ggggcccctg cactgggctt caactcagag cagacgctgg gggagggcga 3672925

ggcgggagtg ggctctggat tcatcgtgtc cgcccccacc tcccagccag 3672875

ggcctgcctg gggagggtca gtgctgcatg atggcgtgtt ctcctcaccc 3672825

ccag**AAACCG TCCATGTTTG ATGTGAGCCG GGAGCTGGGC TCCAGCGTTG** 3672775

CACTGTACAG CCGCAAAGTC CTCATCCAGA CCAAGGCCAC GGACATCCTG 3672725

CCCAAGTGGC TGCGCTTCAT CCGAGgtacg ctgctcagag tccgtgagca 3672675

gtgcccccgt ggcccagtgt cgcccgctgc atctgtgagg gaccgtgctg 3672625

attccattct cagcagccct ctgcagcgag agcaccgccg tcggcctgcg 3672575

ctgcctgtgt gtcagtcgcg tttacagacc ccgggagctg ccccacctcc 3672525

ctacgcacat gactgatctg gggggagcac tggggtgttc agattgaggt 3672475

ctttccatat gtagggatac tgagtttcag attgatatgt gagttgtgtt 3672425

acgtttgagt gagattatag tttaagaaag acttcagtat ttaagccttg 3672375

gtacacagag gtgcgaacca tccctgatag agttttgttt gtttgttttt 3672325

tgagacgagt cttgctctgt cacccaggct ggagtgcggt ggtgcaatcg 3672275

tggctcactg caacctcctt aagtgattct cctgccttag cctcccgagt 3672225

agctgggatt acaggcgccc gccaccacac ccggctaatt tttgtatttt 3672175

tagtagagat ggggtttcac cataattgcc gggctggtct cgaactcctg 3672125

acctcatgat ccgcccacct cggcctccca aagcgctggg attacaggcg 3672075

tcagacactg tgcccagcca gagttgtgat ttttaacata aagcccaggc 3672025

tgtcattttc cgagtgttac cccgaggctg tcccggccac ccacagccca 3671975

ggtcactgtt ctgggaggtg gcaggacgta gaggaagctc cggcagtgcc 3671925

gcctccctgc ttccctctta gcacacgtgc tgggttgaag gccaggcctg 3671875

aagacaaagg gcaggttaat ggggaatgtt gggtggtgtg gagggccgca 3671825

gccccgggag aagctgactg ccgtgtctcc cagGTGTGGT GGACAGTGAG 3671775

GACATTCCCC TGAACCTCAG CCGGGAGCTG CTGCAGGAGA GCGCACTCAT 3671725

CAGgtgagcc tcgggccgcg gggagaggac cctgctgggg acaaggcccc 3671675

tacctgctcc tttgccccca gagggcccta gccgtggccc atggagctga 3671625

gagcagaggt ggtcggggaa gcccggcctg cacatggggg ccctcaggag 3671575

ccttccaggt gctggcctgg cctctgaagc ttgtggtcca gaagaaggtg 3671525

ggggtggctg gtcatggctg aggctggagt ctggataggg ggaggggccg 3671475

cagagccaga cctgcccacc tgtgccccag ggttgtgact gcagccctgc 3671425

agcaggccag ccctgtgtgg aggggactcc agtgtgctgg ctccaggttc 3671375

tccatcagta gctatcactt ccccactctg gccccaggct caccaaatag 3671325

tctttattca aaacctcgct tactggcttt ttttccccta atgcaagtag 3671275

tatttcctta ctagagcaca ttcaagtgac ctgtgctctc acctagagat 3671225

gactgctgtt gatggtttag ggtggggtag attggcagcc acatagggca 3671175

ggtttcagag ggagcctgtg gggtgaggat tcagctggaa tttggagccc 3671125

tggaggtctc tcaagagccc accacgtgca gcatgccatg gaacgggcct 3671075

tgttggagcc cccaacgtgc ctgcagtgtt tctctgccca ccggtttctc 3671025

tccagtgttg aaatggaagc agatcctcgg aaaaaggatg agtctgggta 3670975

attggtgtgt gttggggctg cgctgtgggc atggcgagag gcccacaccg 3670925

agaggcactg gtcctcagag attctgtcct gtgccgcggg caggagcagg 3670875

tctggggaga tggtgggcag tgtggtttcc tgcctggtgg gtccatgccc 3670825

agccctgcga ggtcacatgg cctgccggtg atatcctcct gcctcacctt 3670775

cagaggcaga aagccatgga gatttttttc ttttttcaac caagcaagcc 3670725

gcagtgatgt tttattggtt gactgatagg gtctttcttg ttgtccaggt 3670675

tggaatgcag tggtgtgatc acagctcact gcagcctcaa cctcttgggc 3670625

tcaagcaatc cttccacctc agcctcccaa gtagctggga ctacaagtgt 3670575

gagctaccat gcctggctaa ttttttttga ttttttttga gagttgggat 3670525

ctcactatgt tgcccaggct gatcttgaac tcctgggctc aagcgatcct 3670475

ttggcctcag cctcccaaag tgctgggatt ccaggcatga gccactgcac 3670425

ctggccactt agattttttt ttttttttt ttttttttt ttgagacgga 3670375

gtcttgctct gtcgcccagg ctggagtgca gtggcgcagt ctcggctcac 3670325

tgcaaccttc gcctcctagg ttcacgccat tctcctgtct cagcctcccg 3670275

tctcagctgg gactacaggt gcctgccacc atgcccggct gatttttttat 3670225

atctttagta gagacagggt ttcaccgtgt tagccaggat ggtctcgatc 3670175

tcctgacttc gtgatccgcc tgccttggcc tcccaaagtg ctgggattac 3670125

gggtttgagc cactgcgccc ggcctgtttt tgtttttcat gcaattgaat 3670075

tcatattgct tatactgttt ccttttttct acctagttta tttgcaccac 3670025

ttcccatgtt gttttttgga agcactttta attgctacat catgggacat 3669975

cacagggatg taccatagtt tactgatccc gtccctcggg gctgcacagc 3669925

tgggctgtct cagtgtttct gcagttatga cactgcagtg catgtttatc 3669875

tttgttctga aatctttttt ttttttttt ttttttttt ttgagacgga 3669825

gtcttggtct gttgcccagg ctggagtgca gtggcacgat ctcggctcac 3669775

tgcaagctcc gcctcccggg ttcatgccat tctcctgtct cagcctcccg 3669725

agtagctggg atacaggcac ccaccaccac gcccagctaa ttttttgtat 3669675

atttagtaga gacagggttt cactgtgtta gccgggatgg tcttgatctc 3669625

ctgaccttgt gatctgcctg cctcggcctc ccaaagttct gggattacag 3669575

gtgtgagcca ccgcgcctgg cctgttctga aatctttacc tgcagctgta 3669525

tttccttagg atagaatact aggggtgggg ttacttggtc ggaagatata 3669475

actatataaa aggtattttc cttgctgact aaagagatgt tatataatca 3669425

atgaaaaggg ggcctcagtg cttgtttccc cacacagccg tgctggcttc 3669375

tgacagcagg accccgactt gctgccgaca tgaccacagg gcagcagttg 3669325

tgctgacctc aacaggatgc atccccgccc cacagcagcg actgttctgt 3669275

ggtcgttaga gtcgtgctct ttggtgtact gaccctgtgc acttcgagtg 3669225

cgcctgtggg ttactggtga tctgcccaat gtttcagttc acttcagtga 3669175

agagagggct tggggctgac tcccggatta ttattgctgg tgctggagtt 3669125

gtccccacct tgtccatccc catcaccctg cccaggagtg gccacaggag 3669075

gggaggttcc aggtacaatg tccctgggct ggataaggca aaggacaccc 3669025

actgaactga ggacacgtct ggcctcatct gggaagctca cggatgaagt 3668975

ggaggcaggg gccaggccct gtggagaggg agctcctggc gtccctgcgg 3668925

gccgaggcgg ctgcgttcct ctccccatcc tgaatgtgtt tcctgagtat 3668875

ttcttctcca ctgagaactg tgctgagcct gcataaacac gtgtttcatc 3668825

ctgtgagggg agccgtgagt cctcactcat agttgtggaa actgagtcac 3668775

agaggggtgg tcctgctcag taagggagct gcattcctgg ctgtggcagg 3668725

catgctggcc cactggtagt gcccgaagct gcagagcagg ggtcctcatc 3668675

ccagcttgtg gttgtcaaag gttgcgttgt cagtctgaga actcatctcg 3668625

atcagaaaag agtcagccga aattagagct tttgaaagaa tcacaggctt 3668575

aaaagttgga agcatggtac caagaacatg tttttcctcg aatcctgtga 3668525

gaggaagttg ccttctcgat gcctttgggg tgcatttcca acaaacaagg 3668475

atgtccttcc ctttgtaatt aacagatgtt ataggtattt tgaagctatg 3668425

taaatgtcac attcttcatg aaactctcaa tacattcatt tatttactta 3668375

aaatatttat gtgttggccg ggcgcggtgg ctcacgcctg taatcccagc 3668325

actttgggag gccgaggcag gcagatcacc tgaggtcagg agttcgagac 3668275

cagcctagcc aacatggtaa aaccccgtct ctacttaaaa aatagaaaaa 3668225

ttaggctggg cgcaatggct cactcctgta atcccagcac tttgggaggc 3668175

cgaggcgggt ggatcacgag gtcaggagtt accagcctgc caagatggtg 3668125

aaaccccatc tctactaaaa acacaaaatt ttagccagtc gtggtggcag 3668075

gcaggtgtaa tcccagccac tcgggaggct gaggcagaga attgcttgaa 3668025

cctgggaggt ggagattgca gtgcgccaaa atcacgccac tgcactccag 3667975

cctgggcgac agagcgagac tcatctcaaa aaaaaaaaaa aaaaaaaaat 3667925

cagccgggta tggtggcagg tgcctgtaat cccagctact tgggaggctg 3667875

aggcaggaga attgcttgaa cccgggaggc agaggttgca gtgagccgag 3667825

atcacgccac tgcactccag cctgggggac aagagcaaga ttcgtcggat 3667775

ggaaaaaaaa aaaaaaattg atgtgttata tttatactat ttataattta 3667725

tttatatggg ctgatttcct gttttattca agagtttata atcttgctat 3667675

cattaataaa attttttat ttttatttat ttatttattt atttattttt 3667625

gagatggagt cttactctgt tgctcaggct ggagtgcagt ggcgaggtat 3667575

tggctcaccg aaacctctgc ctcccggatt caagcgattc tcctgcctca 3667525

gcctttcaag tagctgggac tacagtcacc caccaccatg ccctggtaat 3667475

tttttgtatt tttagtagag acgggggctt accatgttga ccaggctggt 3667425

ctcaaactcc tgacctctgg tgatccgccc gcctcagcct cccaaagtgg 3667375

tgcgattaca ggcaggagcc accatgcccc gttgattatt cttagcacgg 3667325

ttacccattt gaccaatccc cctccatgta accaatctac cattgccact 3667275

gccctcttct gcgggtgtcc ctgtcaccta cttgggctct gactcttcac 3667225

ggtgggctgg tcacgccccc agcctggaca cccttctctg gggttcttgg 3667175

gctctgacac ccataccagg ctcttcccaa ccatggccct gcatagacac 3667125

cttccctggg ctctgcaccg catcctgggc tactgtcccc ccgctcccag 3667075

gcacgaaggc atgtcctgtc ccattctgcc ctgtggctga aggactgagt 3667025

cactggggat ggagtgtggg aggaaaggct ctaaatgaac tcgagagagt 3666975

gttgttccca tgctctggat tattgaaata cattgtaatt tacctgctta 3666925

aaggaaagac taaatattaa gaagaaaata aaaatatccc tagtcccagt 3666875

gataaagttg ttcctaattt taggccatta tgtaatgctg cagtaaatat 3666825

cctgatccct aaaatcccaa ttttgaaaaa ttagagtata catatattca 3666775

gtataaatcc caaattacag tgtacatata tagtatatac agtgctgctc 3666725

ctaatgatgg aaaattgtta tgtacatgta gaatgtgcat tctttgcctg 3666675

tatctataga cgtactgtaa tttacccaca ttgggatttt tctgggtttt 3666625

ctttcaacac agctaacttt ctcatgtcat tgaggattat taaaagatgc 3666575

agtttttttt ttttatggcc atttagcatt acataatttt agcctatatt 3666525

cttgaacatg aggttgttca taattgttat attttatgtg ccacagtgaa 3666475

aatcctggta cataaatctt ggtgtgctca catgtttcct aaggtgcagt 3666425

tcctataatt ggaacaactg gctcaaaggt tggaagggtt ttccgggcgt 3666375

gggtatcttg tctctggggg catcggttct cctactgcct ccaggggtg 3666325

tctgccctcc accctgctgc ctcctgtccg gccactgccc agggtttctg 3666275

tctttctgct cagtcttttt cagtttggcc aataacggta ccttgttgtt 3666225

ttcacttctt tgattcttag cggggctgaa catttttcg taccctctgg 3666175

ccatttgtat ttcatagagg ctgcttgtat gtattaaatg catttctttt 3666125

ctgtagGAAA CTCCGGGACG TTTTACAGCA GAGGCTGATC AAATTCTTCA 3666075

TTGACCAGAG TAAAAAAGAT GCTGAGAAGT ATGCAAAGTT TTTTGAAGAT 3666025 Y444N

TACGGCCTGT TCATGCGGGA GGGCATTGTG ACCGCCACCG AGCAGGAGGT 3665975

CAAGgtatag gagctgtgtt ccaggccttt ttctgggcca ccttgtccct 3665925

ggggctgctg aggaagctgg tggaggtgtc ccctgatgtg gcgacggtgc 3665875

agctgggtac cctggctgct gctgctgctg ccaccagggt caggaaatgg 3665825

aaggccaggc ttctgggcct ctggcacctt ccaggcacat ccttaccctc 3665775

ccaccagtgc tgtgctgtgc tctgaagggc tcagcctcac tgctgtgtga 3665725

aggtgcagcc cagggagtgg caggaagagg gcgtgcacac actgtctccc 3665675

ctcagaggat gttgggggct ggggagccac agacaggtgg gacaagccaa 3665625

ggactccgat cccgtgggtg gggaagtggg tggtctcagt gtctgttgag 3665575

ggactattca tcatgtactg gatatcagtc tccaaatact atgctacagg 3665525

ggccagtcgt tcagttaatc caatagtgga tggctgaaaa acgaaacatt 3665475

tgttccataa acatttttttg tccatttttt attgagatac aacttacata 3665425

gcatcagatt cacagaattc acctttttaac acgtaaaatt cagtggcatt 3665375

tagtgcattc acagtgtggt gtggctgcct ccactgtaac cccagaacat 3665325

ttcatcccag gagcccatcc cgtgctggtg tcccttctcc ccagcagcag 3665275

gaggagggtg accacgtgtg tggggtccca aggaggccgt gttctggttg 3665225

tttgccgact tcggcagctt ctgacacagg cctcttcatt ctcctttatc 3665175

ttcatttgag ttaacagcac acaggtaaga gtcagagaca tttctaggtc 3665125

tttgtaggtg tgcacgtgtg acatgtctta tcaatgcaga cccaccatgt 3665075

gtgcaggggt ggcctgggcc ctgctggttg ggtgtccagc tccttgcttt 3665025

tccctctttc tgttttcccc ctgcgtcctt ccagctgcag ctcccatgag 3664975

ctctagaggt cacagctgcg ttcagctgat ggggaggagg gcaaacccct 3664925

cccctaaggg cccttctcca aatcccactg aaacccactg ggcaaagcca 3664875

gtctctgcca tagccagctg tgaggagggc cgggaaccgt ggacttcacc 3664825

cgtgtccgtg tgcccaccag agactgactc tgtcactgag ggcagaggga 3664775

agacgctggg tccaggccgg gctctgctgt tgggtggggt cccctcccag 3664725

ggcgtggtgc gcgtagctcc ctggagagcc cctgggccac ctggggcagg 3664675

aggtgcttcc taagccccca gagctcccaa aaggggcctg atgggcagag 3664625

caaggcctgc tctcggacaa cccccgagtc cactaccgtc cctcgggtca 3664575

gggccagcct ggagtgccag gaggccatgg gcatcggagg gtttgcgccc 3664525

agttagttgg gcaacattga gcccatgggc ctggaataag tggtgacctg 3664475

ccccgtccct tctagGAGGA CATAGCAAAG CTGCTGCGCT ACGAGTCCTC 3664425

GGCGCTGCCC TCCGGGCAGC TAACCAGCCT CTCAGAATAC GCCAGCCGCA 3664375

TGCGGGCCGG CACCCGCAAC ATCTACTACC TGTGCGCCCC CAACCGTCAC 3664325

CTGGCAGAGC ACTCACCCTA CTATGAGGCC ATGAAGAAGA AAGACACAGA 3664275

Ggtgggtgag cggtgggtgg ggcgggctcc gggggctgca acctggggag 3664225

ggtcttgacc ttctcagctc tgtgctgggt gaacctgccc aagactccgg 3664175

gcagggctgc acagtgggtc agggtcacgg gcacagaggc cggaccgact 3664125

gtgacggctg tttcccactt ggaggtcaca tgtggttttt tttgtttgtt 3664075

ttttgttttt ttgagatgga gtcttgctct ctcgcccagg ctagagtgca 3664025

gtggtgcgat ctcggctcac tgcaacttcc gcctcctggg ttcaggtcat 3663975

tctcctgcct cagcctcctg agtagctggg actacaggtg cacaccacca 3663925

cacccagcaa atttttgtat ttttaataga gacggcattt caccatgttg 3663875

gtctcgaact cctgacctca tgatctgcct gctttggcct cccaaagtgc 3663825

tgggattaca ggcgtgagcc actgcactca gccacatgtg gatttcttta 3663775

tgcgtggagt gcttctgcct tgaaggcagt cagagccttc cttagaccca 3663725

ggtgtcgtag taactgtcat gcaggcctag gaaccccaac tgccccggtg 3663675

ttccccagtg tggcccgctt ggctccccca gccctcctgc cgccctcatc 3663625

ctttcttctg tggtggctgg aggcccccgg ggtctgatgg agctgctctt 3663575

ggccacctgc agGTTCTCTT CTGCTTTGAG CAGTTTGATG AGCTCACCCT 3663525

GCTGCACCTT CGTGAGTTTG ACAAGAAGAA GCTGATCTCT GTGGAGACGG 3663475

ACATAGTCGT GGATCACTAC AAGGAGGAGA AGTTTGAGGA CAGGTCCCCA 3663425

Ggtcggcatc ccctgctctc taggcgtggg gctggtttcc actccccgca 3663375

cgcctctcct gccccgcagc gagggcttcc tttgggtttt cgtcagttga 3663325

cctgggctca gccacccccg agaagagcct tgtgggagca ccctggtgac 3663275

tggaggaagg tgcctcctgg tttagatatc aggggtctgt ccagtgctcc 3663225

tgccacggtg gcttctggag ctggcccagc ttcttgagag gctgtgtatt 3663175

tttttaaagc cctaaccaag ttgtatgggc ctcaggcaac ctgaagcatc 3663125

ctttgaggtt ttacttttag atgaaaagca tcttgctagc ttgtgtctcc 3663075

atcctggtgg gagaggaggt gggagctgga agcatgctgc gtggccccca 3663025

tggaagccgg ggagttggga tgcaggcctg agctccctgt cgcctgctct 3662975

tccgcagCCG CCGAGTGCCT ATCAGAGAAG GAGACGGAGG AGCTCATGGC 3662925

CTGGATGAGA AATGTGCTGG GGTCGCGTGT CACCAACGTG AAGgtgaggc 3662875

tttcccgggg atggaccacc acttggccgc agtgtcccta acaggctggc 3662825

cagctggtgg ctcccagtac ctggcccgtt gggtgtcctt ccagcagcag 3662775

cagaagccct tggtgtcagg tggagaccct gtgggtccct gctcggcacg 3662725

tgttgctcgg gagtgccgct gaggcaggaa ggccgtgtct ttctcccagc 3662675

cctgctccag agcaggtgtg aactgagaac tgaaaaacca gcatcctgag 3662625

tgggagctgc aatggctgag gacgtggggg ttccaaacaa gggacatgct 3662575

accccagccc tcaggagctc acatgctcac ttgggtgctt agtcgggggt 3662525

tttgggtggg cttcagagag ctaagactcc ccccaccaac ctgtctagct 3662475

cagagtgaga aatgagcgtc ccatgcatgg tcacttggag gaaggggcct 3662425

catgcagggt gggctggcat ggagcagagg acgatggatt cgggcagctc 3662375

ctggaggcag cagcggggca ccagggtggt ggagcccctc gggcacagta 3662325

tctttgcgtg gggcatcagc tcagggccca caagttagtg ggtaatgggg 3662275

agggagcagc gctggtccag gggagtcctt gagaccccgc ctgctacctc 3662225

gtggtctggg tgaccttcac ccctggtaag atcctgccag ccctctcaca 3662175

ttgggaacct ctatcaccct caaccccggg ctttgctcac agGTGACCCT 3662125

CCGACTGGAC ACCCACCCTG CCATGGTCAC CGTGCTGGAG ATGGGGGCTG 3662075

CCCGCCACTT CCTGCGCATG CAGCAGCTGG CCAAGACCCA GGAGGAGCGC 3662025

GCACAGCTCC TGCAGCCCAC GCTGGAGATC AACCCCAGgt gaggccacgc 3661975

tcctggctct tccagcctgt gggattcccc agaatcctgt gtgtggtgtt 3661925

cttttgttgt ggaatgtgac acagaagaaa agtgcgtgag gcctgtggac 3661875

atgtgggtaa ctataaggag ctgtatgcag tttaggctgc acccatgtga 3661825

aatggaacct ggccagcccc ttaccatccc caggtgtcac ctgggaggtt 3661775

agccacatcc cagcctgtga ccatgtcctc gttttgcttt atggctttgc 3661725

cacctgtgcg tgtcctggac atgctcagtt ttgcctgttt tgagctttgt 3661675

acgtggatct tggtgtttgc tgaagtctca cgttgctcac ttggcatgag 3661625

ggttgcccat gcagaggggc tgccacaagt tcattttcat agccgaataa 3661575

tgtccgctgc agaaacccac ctcggcacag cagactgctc cgttctgctc 3661525

tgctgggcct ccggtggttc ttggtcagaa gttgtggaga gccaggctgc 3661475

tctgagtatt cttgtccacg tgtctggggc ttgtgtgggt ttctctgtgg 3661425

ccccggtggt gggagctgct tccagggtgc accgagaacc ccccagccct 3661375

gacagtggct gagccgtaag atttccctcg tttcttcctg ttgttcttta 3661325

tatgcccttt atctgttgta aatgtctttt cacctgcctt taggtatctt 3661275

ttgagtttct ttctttttac agtatcactt ctttgcaccc atgaatgtga 3661225

tctatttagg tctttaacat cctttggtac cttacattct ctgtagggtt 3661175

ctggtaccat ttttaaagaa ttattctttg atgtgtctta tggggtattt 3661125

taaaatttca ttttctaact tgtatatgaa ctaacttgta tatgaagttt 3661075

ctttttggg ggaaattttg aatgtagcaa ttttttaaaa aatgaagtta 3661025

cataaacatg ttaccaaaaa tagaaaacag caaaaaggaa atcaaaatcc 3660975

atagacttac cacccccccc acaatgtagc ctaagtagta ttttaatttt 3660925

tgagacaggg tctcactctg tcccccaggt tggagtgcag tggggcaatc 3660875

tcagctcact gcaacttcta cctcctggcc tcaaacaatc cacctgcctt 3660825

agcctcccga agtgctggga ttacaagtgt gggctaccac ccccagccag 3660775

tttttgtttt gttctttagt acatgtctag tttttttctt ttgtcatttt 3660725

acaaccataa cttttaaaat tatactggag gcgagggaga tgcatcttcc 3660675

tagccatggc actcctgggg aaaggctgac ttggcttatg gctgtcagtg 3660625

cacagcagcg ccagtatgca gaatgcctgt gcctctgctg gagcagctca 3660575

gtgaggcgga caccaggtca ctttaactag ttttggtggc aaactagttt 3660525

tgtgagatag ctgcagaagt gctcgtttct gtctgttgcc acttcacttt 3660475

tggagacagg gtcttgctct gtcacctagg ctggagtgta ccagtggcgc 3660425

catcagagct cactgcagcc ttggcctccc aaagtggtgg gattacaggc 3660375

gagagccact gtgcccagcc agcttcactt tcatttgttt taaaatttgg 3660325

tgttctgtcc acatagttca gaattcaaaa ctgcttacag gggaaaattt 3660275

cctcctacct gtgtccccag tgcagccagc attagggctt ttgtatttct 3660225

gcagagatta tgtgcatttg tgggcagctg cgcccgtggg cttccaaggg 3660175

ggaacttgct gtgcagtggg tccttgcctt gcttttctcc cttagggtaa 3660125

ctaggtgacc tccacattag catattaaga atgtcctttt tttccagcta 3660075

cgtagactag aaatgtgagg atgtgcattt gaagtgtttc ctctgttagg 3660025

ttgggtgcgg tgcctcacgc ctgtaatccc aacattttgg gaggcctagg 3659975

cgggtggatc acttgaggtc aggagttcga gacctcatct ctactaaaaa 3659925

tacaaaaact agctgggggt ggtggtgggt gcctgtaatc ccagttactt 3659875

gggaggctga ggcaagagaa cctcttgaaa ccaggaggct gcggtgagcc 3659825

aagatcatgc catttcactc tagcttgggt gaaggagtga gagtctatct 3659775

atctatctat ctatctatct atctaaaaaa aaaagtgttt aaagggatgc 3659725

agttaggaaa tggaatggct gagtctcagc atatcatcca catgtggttt 3659675

tcccgactcc agttgtcctc tggagaggtt gtacaaattt acagttcccc 3659625

agagccctcg gttttatcag acttctaagt gaaaaattat aatattcatg 3659575

ttaaggttaa atactacatg atgctttttc ctatgcagaa aaaaatattg 3659525

ttctgacgtc aaatatgtca atcattcttt acttttggt ttgtggtttt 3659475

gcttggaaag gctttcccct tctgagatga tgaaacattt cttccctaga 3659425

attgtgcttg tcatctttga tccctctgga atttactctg gtctaaatgg 3659375

ttttctgcat ggctcccagt catcccagtg ctgctggatg gagtgatctg 3659325

tctcctccct cttctgtgaa atactgtcct catcagacac tcagtgtcca 3659275

ccctcgttac atggagttgt ttgccttccc cctttccaga cctaaactgt 3659225

tttatttact agagccctat aatatgtttc aacatgtggg tcttactccc 3659175

ttctctttta ttatttatct aggaaccaag gcatgtcttc acgtactaag 3659125

ctccttttgt ccctttagtg tatattaatc ttggagtttg gctaccttac 3659075

agcattttct aatactgaca ctcctgattc tcttgggttt tctgggtata 3659025

taatgatatt atctataaat gatcattaac ataccttatt taaaaaacta 3658975

cagacagtct tactgtgctt ctttaaatat cctgataatc ccaaaacatg 3658925

aagggagggt cacagcacgt ggtactgagc tgctttttct ggtgggttct 3658875

gtgttgcagG CACGCGCTCA TCAAGAAGCT GAATCAGCTG CGCGCAAGCG 3658825

AGCCTGGCCT GGCTCAGCTG CTGGTGGATC AGgtgagtgc agcagcttag 3658775

gatgactgca gggacccagg ctaccagccc tgccagcctg ccttcagggt 3658725

ggaacagcgg tttcctctaa aatcctgtct ttttgtttgt ttgtttgttt 3658675

tttgagatgg agtgttgctc tgttgccagg ctggagtgca gtggcgcgat 3658625

cttggctcac tacaacctct gcctcccggg ttcaagcaat tcccctgcct 3658575

cagcctcccg agtagctggg actacaggca tgcgcctggc taattttgta 3658525

ttttagtaga gatggggttt tcaccatctt ggccaggatg gtctcaatct 3658475

cctgacctcg tgagccaccg tgcccagcca aattctgttt taaaaacgga 3658425

aaaatggcca ggcgtggtgg ctcacgcctg taatcccagc actttgggag 3658375

gcgggggat cacctgaggt tgcagtgagc cgagatcgtg cctctgcact 3658325

ccagcctcgg caacagtgag actctgtctc aaaaaaaaaa aaatgaaaag 3658275

gtgccccatg cccctcataa tgggtttctc ctcttgcctt tcagATATAC 3658225

GAGAACGCCA TGATTGCTGC TGGACTTGTT GACGACCCTA GGGCCATGGT 3658175

GGGCCGCTTG AATGAGCTGC TTGTCAAGGC CCTGGAGCGA CACTGACAGC 3658125

CAGGGGGCCA GAAGGACTGA CACCACAGAT GACAGCCCCA CCTCCTTGAG 3658075

CTTTATTTAC CTAAATTTAA AGGTATTTCT TAACCCGAgt gtgtgttggg 3658025

ctttttttct gggtcctgtg gcaggatggg tcctctcttc ctgcagttca 3657975

actggtgtgg ggaggggctg ctcacttcag catcacctcc actggatagt 3657925

ggtcactgat ggcttgggcc tgcaggcaag tgggcacagg gtctgggctg 3657875

agcctacctg agctcctgtg tcccatcctc atgtggctgt gcaagggagg 3657825

acacatacca gttggtcact caggccatag gcagcctgga agttaaaggg 3657775

aagagccgag tcgggaacaa cggcgcctcg gagcagcatc cctgcaacca 3657725

cgatcctgat gggtgttggg aagagaaagt aggttcccct ttcacacatg 3657675

ggcctggctc agcacccgca ggaactaaac taagagccct gggacctgcc 3657625

agtgcaggtc tgtgggtgcc caaaactgca caccctggtc tgtgcccctc 3657575

aatgtggaaa ccacatgaca gcctaggtgt ctgcctctcc tcttatcccc 3657525

agatgtgctt ttccgaaaaa acctaaaaat cgtggctctt gttattctgt 3657475

tccctgtagt ggatcaactg aagctcagtt gggtgagtgt tcaaaggctt 3657425

tgaggcttct gaagcccgac ctatgagtca cggctgccct tggaggtgcc 3657375

ctcagtctgc cctaagcgcg aggccctgct cacctgtcat aggcacagtg 3657325

cgtgggtgta gctgtggtgt cagcgctgtc ggggatcagc cactggaagg 3657275

tggggcttgt ccacaggcgg atggatgacc actgggaggg tctcacatag 3657225

ctgcagcccg cattgaagtc gcccatcaac atgacgtcct accaggaaac 3657175

gctgcctgtg gccctgggac atgcggaggc cgctggtgcc cactgcccct 3657125

gggagggcct cacctccaag ccccatttct cttggacatc caggtagacg 3657075

tcatagagag cgtcgatctc ggctactgcg tcccccgg

TRAP1 (NC_000016.10, GRCh38) - gDNA - 2026-11-24

