



TRAP1 (NC_000016.9, GRCH37) - gDNA - 2024-05-16

agctaatttt ttgtatctta gtagagatga tgggttttca ccatgttggc 3768476
caggctgggc tcggactcct gaccgcaggc agtccgccc cctcagcctc 3768426
ccaaagtgc aggtattacag gcgtgagcca ccgcgccc aaagaactca 3768376
actcttttaa ccaattgcc atcagaaagt atctgaatcc acctatgacc 3768326
tctaagtatt tcaccctttg agttgtcctg cctttccaca cggaaccaac 3768276
ctatgtctta catgcattga ctgatgtctt atgtctctct aaaatgtata 3768226
aaaccaagca agctgtaacc caagcacctt gggccaagtt ctcaggacct 3768176
tttgagactg tgcctccctc catgcacact catatttggc tcagaataac 3768126
cttctaaata ctttagagtt tgactcttct cgacaaggac aagagaagt 3768076
gaataaacga ataaccgcag ttttcctggt ggtattggc actgggttca 3768026
ggttttggag tagtagccag tcaagcctgg aatccccttc ctcattcgct 3767976
ttagcttttt gtccagtctt ggtttgcaag agacttgca cggcctagac 3767926
ggatggccgg gattcacaaa ggtcgcagac acgggaactg cttcttcccc 3767876
agcgtcgcct ccacaccctc gcgtggatac tgacatccgc ccattccag 3767826
gaatgcgcac agctaggcgc agccggccag cgtgggccc gggcggcggg 3767776
gccacctccc ccacctccgc gcgcaaggcc cgtcgccctt gacaacgcga 3767726
tccaaggtca cggaggtccc acccccaggc ccgaccgtcc acgagacggg 3767676
tagtaccctg ccacgcgcc gagcaggcag ctgcccggac agcccggcgc 3767626
ccgccgtgac gtcaccgcc cgcgcccag gaagccccgc cccgcgcagc 3767576
cccgctccgc cccttcccat cgtgtacggt cccgcgtggc tgcgcgcggc 3767526
GCTCTGGGAG TACGACATGG CGCGCGAGCT GCGGGCGCTG CTGCTGTGGG 3767476
GCCGCCGCCT GCGGCCTTTG CTGCGGGCGC CGGCCTGGC GGCCGTGCCG 3767426

GGAGgtgagg gcgtcctggc tggacgggca gcgggagggc cgggccacgg 3767376
agacggcagg gacgtccctg tgctccgggg agcgaggcgc cggcacctgc 3767326
ttcacaggcg tgggaggtcc ggcgaggcca agcgcggcag acgcgtttac 3767276
tttcgctccg ctctcgcga gctccagctt ggctgccttt tcctcggctg 3767226
gactcccctc gccacccgcc catgggagcc ctgaaggagg ctgggtcttg 3767176
gggggtcgcg gggtcgggcg gagcggctgc ggggtcgtcc ctctggagc 3767126
ttcgggtccag tcaggtagcg cacgtgcagg tggagccgct gcggagcgcg 3767076
gagtctttgc ggggtgatgt tgcggggaat ggactcactc ggggtgatcg 3767026
tgctagtctc atggatcgtg ctttaccctt ccccgccctc cagtagcgca 3766976
ctgaggggtt atttgtaaat tcgttcattg gacgcacatg tgagcgcccc 3766926
ctcagtgccc ggcgccgtgc aggttctggg gacgccacag tgaacaaaac 3766876
ctatagcagt catccgggtc cccagagcag gtggactcga tgtcgttgac 3766826
gcagctgtgt cctcggggcc tggaaattgat ggatgcgcca ataaatgttt 3766776
gtaaaacaga gagaacgacc ctaacctctg ctttcccagt cccactcgg 3766726
aggtaacaac agtgaaagt tccggcattgc ttcggggctg tacacagtgt 3766676
tatacgtgta aatataaatg tctgcgtata agtatttttt attctaataa 3766626
gcctaaacca tgtatgcatt gtgctacgtt gtacttcaga aaattttaac 3766576
gctcccagca ttctttccac atcttttcat gtcagtgtat acagggtccat 3766526
gtgccttcca gtgaccacac agtattctgt atgatggacg tgtcatttgt 3766476
ttaaacattg tcctattagt ggacgcaata aagggttattt caggttttac 3766426
tttttattac aatgctgcat agaattgggt agtacttaaa tatttgttca 3766376
cgtgcggtat ttcttttagc ttacataatt agaattttag aattgatatt 3766326
tcagagccta tgcatttttg aaatgttagc agatactgcc aaattgtcca 3766276
aaaaggcctt atcaatttat atccccttta gcaggcatca agactgccta 3766226
ttccaaagggt attttcttca acgctgaatc ttatgtcttt tcaaaaccag 3766176
tgggtctataa aagatacctt gtggccgggc gcggtggctc acgcctgtaa 3766126
tcctagcact ttgggagcct gaggtgggca gatcaggagt tcaagaccag 3766076
cctggccaac atggtgaaac cctgtctcta ctaaaaatac aaaaattagc 3766026

tgggtgtggt ggcgcgcgcc tgtaatccca gcttcttggg aggctgaggc 3765976
aggagaatcg cttgaaccca ggaggcagag attgcagtga gctgagattg 3765926
caccactgca ctccagcctg ggcgacagag tgagacttca tctcaacaac 3765876
aaaaataata ataattttcc ctcaaaaagt gatgctgttg ctctcttcta 3765826
gcaccagtgt ctgatcaatt atttatttat ttttttgtct ttatgagggtg 3765776
gggtttcact atgttggcca ggctgggtctc cagtgcctga cctcaagtga 3765726
tctgcctgcc ttgccctcca aaatgctggg attgcaggcg tgtgtcaccg 3765676
tgcctggcca actgttctgt taatttgggt ctcgtttctt ttgtagctga 3765626
ctcgggtttt tcccccttg gaggttaaga ttttttctct ttgtcgtttg 3765576
tgggtctcgcg tccacagggtg tttgtgattc atgctttgta tcatgcactg 3765526
tcccttccat ttggaaaata tgtcagtttt cagcccaggg acattttaat 3765476
tctgtttctt tatctctttt tctttttctt tttttttgag atggagtctt 3765426
gctctgtcac ccaggctgga gtgcagtggc gcgatcttgg ctactgcaa 3765376
gctccgcctc ccgggttcag gccattctcc tgcctcagcc tcccagtag 3765326
ctgggacttt aggcgccac caccatgcct ggctaatttt ttgtattttt 3765276
agtagagacg gggtttcacc ctgttagcca ggatgggtctc gatctcctga 3765226
cctcgtgatc cgcctcttc ggctcccaa agtgctggga ttacaagcgt 3765176
gagccgctgt gccagccct ttatctcttt ttcttaaaaa ttgtctctct 3765126
cctctcgtcc tccatcttct ggtgcggtgg ttcaagcatt cctctgcctg 3765076
agtctaagaa atggaacatg ttcttggcag cttcttgcgt ggagggtgcc 3765026
cttgtcattg tcacctgtgt ggatgaatgg gaaggtaaata tgtttggatt 3764976
gattgaacga tgagagaatt tagctaagaa aatacatgtc ttgtgcaaca 3764926
ggggagaaaag aatagtttag gcagatccac ctatgtagaa aatccagacc 3764876
tcttgaaatt tttttctttt cttgggaaag tatttccagg ttgtagcatg 3764826
tgcctggctt cagggtgtgcg tgtcttatgt ctgtggaatc ctctcgccca 3764776
tgctacgctg cctcagtcac ccatgagctc agccctctta ccctttcaga 3764726
cctcactgac ccctgacact gccagccctg tcaattgccc tcagaatatc 3764676
ttatttgatt ttttttgagc cggagtcttg ctctgttgcc caggctggag 3764626

tgcaagtgggtg caacctcagc tcaccacacc ctccgcctcc tgggttcgag 3764576
tgattctcct gacttcgcct cccacgtagc tgggactaca ggcgcagcc 3764526
accacacca gctaggtttt gtatitttaa tagagatggg gtttcactat 3764476
gctggccagg gtggtctcga actcctgacc tcatgatcca ctagccttgg 3764426
cctcccaaaa tgctgggatt acaggcgtga gccactgcmc ctggcctacc 3764376
ctcagaatat ttctgtgagg ggtgggctag gatatccgct tgtggacttt 3764326
atatttgtca tttttgcca taacagttaa ttcagcaa atatttcaa 3764276
tgcccccgag tcgtcaaaga aaatgtgacc ctgctgtctg gagtcatagg 3764226
tggctgtcga gcagtgtacc agggccatct tgggtggcctg gacagcacat 3764176
tagagaaaca agagctgctt gcccaggggt aagtttcaca gatgaggagc 3764126
gatttgggcc gagtgtccaa ggctgttttc actggagggg agggaggaac 3764076
gttccatgtc tggaaagctg cagggtgcaag ggtaaggaga tagctctgaa 3764026
taattggttt gatgaaagac ttgcgggagt gtgcaggagt gatggtgaat 3763976
gaggctagca gttgtgtctt ttctgtcaga tataagcttg tgcgtaggag 3763926
cctcatcctg cattcctcag gacagtcaca gagccagccc tgggcctggg 3763876
gtgtggggag cccagccacg tggccacca tgagagcttt tcgtcagagc 3763826
tccaactgtc agaagtgtca gatgtgccag tagaaggatg aggccgcctc 3763776
ctaaaggaga ggaagacct ggaaagatca acagcagacg cagtctcca 3763726
aagcaaactg gattctgtgg tcaggcagggt acgggtgacgg gttggtcatt 3763676
ttgcatgacg aggtgactgc cacaatcacc aagggtgccg agtccagtct 3763626
cctggtcatg ccagatgtc ttgttttctg gaaattgcc gaacatgact 3763576
gaggcaacca cgataggact ggttgggtga ggcgttaaga tcttgggcct 3763526
ttttgttctc tgtaagctgg agcctttgct ggaacttcct gtcttggaaa 3763476
tcagagttgt gagagtaggt cccctgccag caccaggaag gtcgggagag 3763426
ctggtttcct cactttgtc agggctcaag tactagctag tttgtttcat 3763376
cttccaaaaa gagcctcacc tggacccgc tcctgtaggt ggtgcctgcc 3763326
tgctgcgcc tcccctcag tacttcgttt gtgtgacggg tttgcctcc 3763276
tccctctgct ctccctttgt ttggagcctg tgctgtttga tttccgtgtc 3763226

ttgtgtgctg cacccttcag gagaattcag gtgaatttct ggtgctctcc 3763176
ggctgttctt ttcagagtgg aggggagtag tacttgctgg tcagttgcga 3763126
ctctgtctgt gaaacagctc tttgtgttgc tgagatgacg ctagagggtgt 3763076
agcgtccatg acatgtttgt cgtctgatta agctgtgggtg ctggcactta 3763026
gacggcagag gaagggtgtg cccagctgtc caaggccacc aggaggacct 3762976
tcagcttagt taggaccaag ggaactgagt tatctgagt cctgaaaaag 3762926
aacacatcag gccgggcgcg gtggctctcg tctgtaatcc cagcactttg 3762876
ggaggccgag gtgggtggat cacttgagtt caggaatttg agaccaacct 3762826
ggccaacatg gcgaaacccc gtctctacta aaaatacaaa gaaattagcc 3762776
agggtggtgg caggcgcctg taatcccaga tacttgggag gctgaggcac 3762726
gagaattgct tgaacctggg aggtggagggt tggagggttc agtgagccaa 3762676
gattgtgcc actgactccc tcctgggcga cagtgcaga ctctgtcttg 3762626
gaaacaaaca catcaatccg aatgtaagag attagcaaag cgtttatttg 3762576
ttactgggtg agtagttggc ctaagctaag acaaaagagg aatctccaag 3762526
tattttgcta ccccttggca ggaagagagg gaatgcagct tgcgggggtg 3762476
ggatgggggt gtcaggttga taagaaaact gtgggaaaat aaacatttac 3762426
tcctgcccc catgtcagta aataccatgt gacaaagggtg agttccatga 3762376
aagaggctgt tactgaggcc tgtgatactt gcttgtctca aaatgctgac 3762326
atatcttttt tttttttttt tttttttttt tttttttttg agacagattc 3762276
tttctgtcgc caggctgaag tgcagtggca tgacctcagc tctactgaac 3762226
ttccgcctcc tgaattcagg cagttctcct gcctcagcct cctgagtagc 3762176
tgggactaca ggtgcatgcc accatggcca gccaattttt gtatttttag 3762126
tagagacgag gtttcaccgt gttgggcaag atgggtctcaa tcttttgacc 3762076
ttttgatctg cctgcttttg cctcccaaag tgctgggatt acagacatga 3762026
gctaccacgt cgggcctgac aaagaatctt gatagcgatt gaaaatgtat 3761976
ccattcatac tcaaataag taaaaagtgc ttttgggttc aaagccagag 3761926
aatgttcatt gatggcggtt ttgggtgcctc aagtgtagcc agctagaact 3761876
tttcttacca ccgtcctgct tagtcctact gaagacctgc cttctactag 3761826

gaagctgctc ttagtccaca aagtggcttc cctgtagttc cacagcattt 3761776
aacaaaatag atttcaggga gtttatttgt ggtgtggctg gttatttctg 3761726
ctaaaaccac taggaattac cataaaagct gtagcttgga gaaacagtat 3761676
ctacttgctg gagtattact gccacctgtg ttttttttgt ttttgttttg 3761626
gtttttgttt tttttttgtt tttttcaaga tggagtcttg ctctgtttcc 3761576
caggctggag tgcagtggca cgaactcggc tctactgcaat ctccacctcc 3761526
cgggttcaag cagttctcct gcctcagcct cccaagtagc tggggctaca 3761476
ggcatgcaact accgtgcccg gctaattttt gtatttttag ttgaggtaga 3761426
gtttcaccat gttggccagg ctggtcttga acttctgacc ttgtgatctg 3761376
cctgcctcgg cctcccaaag tgctgggatt acagggtgtgc gccaccgttc 3761326
ccagccctgc cattggcttt ttaaccagggt gaattcctgt agattgggta 3761276
gattgaaagg acatgtagct gaatcattgg ttttaaaagg aatggctcag 3761226
ttacttcata gccatataat taagaaatgt ggctagaagg taaaaaattg 3761176
gccaggcctg gtagctcatg cttgtaatcc cagcactttg ggggctgcgg 3761126
cgggaggatc ctgtgagttt aggagtttga gaccagcctg ggcaacctag 3761076
agagaccccc atctctacca aaaaaccctt tttttttttt ttccaattag 3761026
ctgggtgtgc ctgtggtccc agctacccaa gaggtgaag tgggaggctc 3760976
ccttaagcct tgagaagtcg aggctgcagt gagctgtgat cacgccactg 3760926
cactacagtc tgggtgacag agtgacagtg tctcaaaaaa aaaaatatat 3760876
atatatatat atatatacac acacacatat aaaagaaatt aattttgaga 3760826
tagctaaatt aaatgccata ttaagagcag gaggtattc agcaatgctg 3760776
ctgagaagaa gacagaagga cgtgggtcct tctaatagtaa ctatgtgtgt 3760726
cgggttagtg atatgcacct cgaaggagaa attaagacag cacattgcca 3760676
tgttagttca cacttgccag tatttcagca tttgtcaggc aatggaatgt 3760626
tcaagcgaat tttccacgag gctgacttta aaacatttca ttttaaccat 3760576
tatgatgaga agtctttcta gaacactcca tcatttgatg gcccatgact 3760526
gaacctctct tggatgtttt cagggtcatt attacgggtg ttaatgtttg 3760476
gtctttctgtt ttaatatgta ggctcccgtg gggccattga aatgtgaaga 3760426

atccttcgtc tatgaagtgt cccacatca aaactgcatt gtgagtgttt 3760376
atatttttgg cctctcttac tgtggcctta acttgcaggt ctgtctggag 3760326
ccctgttctc tcctttccta gtttgcagat gtggctggga aacttgttag 3760276
catcaaattg ttagaatgag atggatttca tatggggcca gtagtcttcc 3760226
atgagcaaag ctcaggggtga gggcttcagg cccatatttt gactattccg 3760176
agggtgccctt tcgctttttg ttctttttct ttatgttcaa ggagtatatgt 3760126
ttcctgatga atgaagtatc agtatatcat agtagagaac gattagacca 3760076
ggttctggaa cacaggaaac ctcaagaaac agtgagtgtt gagaatgcca 3760026
gagctaagaa ctcagacatt tgtgaggga tacaggtctt tctgttcaga 3759976
atgttcatgt acttaagaat cttctcgcca ggcgcggtgg ctcacgcctg 3759926
taatcccagc actttggcag gctgagggcg gtggatcacc tgaggttagg 3759876
agtttgagac cagcctgacc aacatggaga aaccctgtct ctacgaaaaa 3759826
tacaaaacta gccgggcgtg gtggcgcgat cctgtaatcc cagctactta 3759776
ggaggctgag gcaggagaat cgcttgaatc tgggaggtgg aggttgtggt 3759726
gtgccgagat ggcgccactg cactccagcc tggcaacaag agcgaaaact 3759676
ccgtctcaca cacacacaca aaaaaagggt aaacaaagggt aaactgggaa 3759626
ggaaccgtgt gtaatcttcc gtaccttgca ttttccactt atattctggg 3759576
gtttgtttcc tgtcgccaca gagctctggt attccatagc gaggatgttt 3759526
tgtaatttat gtaaccctct catggcggac atttaggttg ttgctgagtt 3759476
tccccaagat aacagacggc attgccaaca gtttctcaca cttcaccag 3759426
tgctagaatg acagtattta aaacatctgt caatctggta gtgaaaatgc 3759376
tatctcgttt taaagtgcatt ttccttagtt atgagtgtgg taaaacatct 3759326
tttactagga cgtaaagcca ttgatgtttc ttgtttttgt gaatggccat 3759276
ttttctcttg aaccaatggc ctttttcttt tttttttttt tttttttgag 3759226
atggagtttt gcacttggtg cccaggctgg agtgcagtgg cgtgatcttg 3759176
gctcaccgta acctctgctg tagccctttt aaataacttt taaaaattga 3759126
gacagtgtcg ggccaggcac ggtggctcac gcctgtaatc ccagcactgt 3759076
gggaggccga ggcgggcgga tcatgaggtc aggagatcga gaccatcctg 3759026

gctaacacgg tgaaaccca tctctactaa aaatacaaaa aattatctgg 3758976
gcatggtggc gggcgcctgt agtcccagct acttgggaag ctgaggcagg 3758926
agaatgccgt gaacccagga agcggagctt gcagtgagcc gcgatcgac 3758876
cactgcactc cagcctcggc aacagagcaa aactccatct caaaaaaaaa 3758826
aaaaaaaaattg agacagagtc tgactctgtt gcccaggctg gagtgcagtg 3758776
gcgccatctc accttactgt aacctccgcc tcccagggtt aagcagtcct 3758726
ctcgcctcag cctcacaagt agccgggatt acaggcacgc gccaccatgc 3758676
ccggctcatt tatttttatt tatttattta ttatttttga gatggagtct 3758626
cgctccgtcg cccaggctgg agtgcagtgg tacaatcttg gctcactgca 3758576
acctccgtct cccaggttga agcatttctc ctgcctcagc ctccctagta 3758526
gctgggacta caggcacccg tcaccacgcc cggctaattt ttgtattttt 3758476
agtagagatg gaatttcacc atgttgatca ggctggtctt gaactcctga 3758426
cctcatgatc catccgcctc agcctcccaa agtgttggca ttacagggtg 3758376
gagccactgc tcctggcttt ctggctaatt ttgtttttt ttgtattttt 3758326
tagtagagac agggttttgc catgttggcc aggctagtct caaactcttg 3758276
acctcgggat ctgcccgcc ccacctccca aagtgcgtg attacaggcg 3758226
tgagccacgg cactaaattt tatttttagag gcagggtctt gctttgtcat 3758176
ccgggctgga gtgcagttgt gcgatcctgg ctcgctgcag gcctgacctc 3758126
ctggactcaa gtgatactcc tgcctcatcc tccaagtgg ctgtgacctc 3758076
ttcctcccaa ggagcatgtg ccaccatgcc tggctaatta aaaaacattt 3758026
tttttagaga tggggctcca ctatattgcc ccggcttgct ttgaactcct 3757976
ggtctcaagt gatcctccta cttctgcctg ccaaagtact gggattacac 3757926
gcaggagccg tcgtgcctgg cccccagttt ttttcttaat gtgtttgtct 3757876
tttttttttt tttttttgag ttagagtctc gctctgtctg ttgcccaggc 3757826
tggagtgcag tggcacgatc ttggctcact gcagccttcg cttcccagat 3757776
gcaagcaagt ctcctgcctc agcctctgga gtagctggga ttacagatgc 3757726
ccgctgcgac tcccagctaa tttttgtatt ttggttagag acggggtttc 3757676
accatgttgg ccaggctggg ctcgaactcc tgacctcagg cgatccaccc 3757626

acctcagcct cccaaagtgc tgggattaca ggcatgagcc acctcaccgc 3757576
ggtgtttgtc ttttgactta aatttttatg tggtccttat atttatggcc 3757526
ttttgggtta tatattttgt ttagaaacat ttcctcttaa ggccgggcgc 3757476
ggtggctcac gcttgtaatc ctagcacttt gggaggctga ggcagggtgga 3757426
tcacgagttc aggagtttga gaccatcctg gccaacatgg tgaaaccccg 3757376
tctctactaa aaatacaaaa cattagccgg gtgtggtggt gggcgcctgt 3757326
agtcccagct acttgggagg ctgaggcagg agaatggtgt gaacccggga 3757276
ggcggagctt gcagtgagcc gagatccgc cactgcactc cagcctgggc 3757226
gacagagcga gactccgcct caaaaaaaaa aaaaaaaaaa gatttcctct 3757176
taaatacattt tttttaaaaa ctcaagatgc ctggcagttt aggaactgca 3757126
aagcaaaact acagtgagtt agcacttcct actcactagg gtggctataa 3757076
ttaaaaatta aagaaacaac aacaaaaaaaa caggtgatac aaaaatggata 3757026
actaggatgt ggaaaaatca gaaccctccc aactgctgg tgagaatgta 3756976
aaacggtgcg acctctgcag gaaaacattc ttgcagctcc tcacacagtc 3756926
aaaccgaatt accatatgac cccacagttc taccctgagg cacatacctt 3756876
gtagacatga aaacatgtcc acagaacagc ctacacatga atgttcatag 3756826
cagcattatt cataataacc cgaaaatgaa aacaatctga aggtccatca 3756776
gaagggtggaa acgaggctgg gtgcggttgg tcatgcctgt aattgcagca 3756726
cttcaggagg ccaaggcagg aggattgctt gaggccaaga gttgaatgcc 3756676
agcctggaca acatagttag actccatctc gaaaaaaaa ttttaaaaat 3756626
tgctgggtgt ggtggcacat gcctgtggtc ccagccattt gggaggctga 3756576
ggtgggagaa ttgctcgagc ccaggagttt gaggctacat tgagctgtga 3756526
ttgtgccact gcacttcagc ctgggtcaaag agcaagaacc tatctcaaaa 3756476
aaaaaaaaa aaaaaaaga gtgcaaata ggcaggagtgt gtggtgcgcc 3756426
cttctaattcc cacctgcttg ggaggctgag gtgggaggat cgcttaagcc 3756376
tgccagttgg aggctacat gcacatgac agtgcctgta aacagccact 3756326
gcactccagg caacatagt agacccccac cccaccccaa aacaaaagtt 3756276
acagtaaaaa gttggaagct gggcctgggt cagtggctca tgtctacaat 3756226

ctcagcactt cgggaggcta acgtgggtgg attacttgag gtcaggagtt 3756176
tgagactagc ctggccaaca tggcaaaacc cgtctctact aaaaatacaa 3756126
aaattaactg ggcgtggtgg cgggtgcctc agcaggagaa tcacttgacc 3756076
ctgggaattg gaggttgagc tgagcggaga ttacaccact gcagagttag 3756026
actccgtctc aaaaaaaaaa aaagaaaaaa agggccggga ctggtggctc 3755976
acgcctgtaa tcccagcact ttgggaggcc gaggtgggcc gatcacctga 3755926
ggtcaggagt ttgagaccag cctgaccaac atggagaaac cccgtctcta 3755876
ctaaaaaaaa atatatatat atataaaatt agccgggtgt ggtggcacat 3755826
gcctgtaatc tcagctactc gggaggctga ggcaggagaa tcacttgaac 3755776
ccgggaggca gaggttgagc tgagccaaga tcatgtcatt gcactccagc 3755726
ctggcaacga gagtgaact ctgtctcaca aaaaatttgg aagcaacca 3755676
gttgcccatc atttgatgaa tggaaaaaa taatctatac agcggagtgc 3755626
tcttcagtta taaaaggaa tgaggtgctg atacatgcta tatgtggatg 3755576
aaccctaaag actttatgct aagtcaaaga agccagacaa aaaaccatat 3755526
attgtatgat ttcatttctg tgaagtgcc agaaaaggca aatccataga 3755476
gacagacata gatgagtagt tgccaagagc tgggtgggaga gggaaaagag 3755426
agtgaacatg agtggctgta gggcttcttt tggggtgata aaaatgttct 3755376
gtagttgtcc gggcatggtg gctcatgcct gtaatcccag cactttggga 3755326
ggccgatgag ggcggatcac gaggtcagga gatcgagacc atcctggcta 3755276
acatggtgaa accctgtgtc tactaaaaaa aaaatacaaa aaattagccg 3755226
ggtgtggtgg cgggcgcctg tagtcccagc tactcgggac gctgaggcag 3755176
gagaatggca tgaaccagc acgcagagct tacagtgagc ccagatggct 3755126
ccactgcact ccagcctggg cgacagagcg agactccgtc tcaaaaaaaaa 3755076
aaatgttctg tggttagtgg tcgtggctgt acaactttgt gaatatacta 3755026
aaaccactga attgtgcact tgggtgaatt atatggcaga tgtgttacat 3754976
ctcaataaag ttactaaatc tttcatgttt tctttcagta cttttagctt 3754926
ttatttttac ttctatggtc catctggaat tcattttgac ttaataagtg 3754876
acagcggaat ttaaaaaaaaa aaaaataaga ggttggcttt gctatgttgc 3754826

ccaggctggt ctagaactcc tggcctcaag tgttcctccc aacttggcct 3754776
tccaaagcac tgggggttaca aacatgagcc cctgtgccct gctggaaatt 3754726
aatttaacct ttttttgtgt gtgtttactt tttgagagtt gggggggtct 3754676
ccctatgtta cctaggctgg cctcgagctc ctgagctcga gggagcctcc 3754626
tcctgcctgg atctccctcc caaagtgctg ggattacagg tgtgagcagc 3754576
catgcctggt ctggaaattt attttaatat tgtagcttta tattaatgtt 3754526
ctttaatatt tgatgaattt ctcagtttt ttcaaaattt ctttggctat 3754476
ttatgtacac taacttttcc acatgaattt tagaatgaga atagtttaaa 3754426
aatgtgtttg aaattttgta aatgtgttta tgtttctcgt aagtttttaa 3754376
gtgtttttta taatgcaacg ttttgtttgt tttgagacag agtcgtgctg 3754326
tcgcctaggc tcgagtgcag agatgcaatt tcagctcact gaacctctgc 3754276
ctcccagggt caagcgattc tagtgcgttg gtctcgcgag tagctaagat 3754226
tacagggtgtg catcccatg cccagctaatt ttttgtattt ttagtagaga 3754176
cgggttttca ccattttggc caggctgttc tcaaaccct gacctcagct 3754126
gatctgccta ccttggcttc tcaaagtgtt gggattacag gcgtgaggca 3754076
cctcacctgg cctgtaatgt aacttttgta aatagttttg ttttttgatt 3754026
tttttttttt gagacggggt ctcgctctgt cgcccaggct ggagtgcagt 3753976
ggcgcgatct cggctcactg cacgctccgc ctcccgcgtt cactccattc 3753926
tcctgcctca gcctcccag tagctgggac cacaggcacc cgccaccacg 3753876
cccggctaatt tttttgtatt ttcaatagag actggctttc accgtgttag 3753826
ccaggatgat cttgatctcc tgacctcgtg atctgcccgc ctcggcctcc 3753776
caaagtgtg ggattacagg cgtaagccac cgcgcccagc ctaacttttg 3753726
taaatagttt tataagtagg gtattttatt tgtagattat tgatatatgt 3753676
agtccaatat gcaaacgata cagagggtata tctgatgaaa aactcgtctc 3753626
ccactgacat gcctcagaca acaccctcc tgggtggcaag tccattagcc 3753576
agtttttggg tgtccttgca gagatctgcg tggcatatga gaatagctat 3753526
gcatgcatgt atcacataac atgtatatgc atttgaacac catggtagtg 3753476
tgtgcaaacc gctgttctac ctctagtgtt ttttctttgt gttagaggta 3753426

attcagcatc agcacacatt acacagcatt gtcccatc tctataatcc 3753376
catgctttcc aagtgttacc ttacgtctgt agtttacttg ttagtcctcc 3753326
gcttgtgagt atgtagcata tgtaacagtc ttaagtgggt tatttaatga 3753276
cagtcttttg ccctagtagt gtttcagagt tttcttaaaa gatcttgcca 3753226
aaaaagaaaa aaaaggaaag attttgcttt cttggtaa at gcattcttaa 3753176
ttgttttagtt tttgttcctg gggctcttta tgtcatat tctaactagt 3753126
tttctgtata taggacgtcc ggggtgttgat ttttgtattc taccatctta 3753076
ctgaatgctt tttttttttt tttttttttt tcaagacgga gtttcaactc 3753026
tgttctccag gctggagtgc aatggcagca tcttggctta ccacaacctc 3752976
cacctcctgg gttcaagcga ttctcctacc tcggcctccc aagtagctgg 3752926
gattacaggc atccacgaca acacctggct aattttgtat ttttagtaga 3752876
gatggagttt ctccatgttg gtcaggctgg tctcaaactc ccaacctcag 3752826
gtgatccgcc taccacagcc tcccaaagt ccaggattac aggtgtgagc 3752776
caccgcaccc agctttttaa atttctctta aagacaggggt ctcaacttgt 3752726
caccaggt agagtgcagt ggtgtgatct cggctcactg cagcctttac 3752676
cctctggtct caagtgatcc ttccgcctca agtaccctaa gtagctggaa 3752626
ctacaggtgc gtgtcacat gtccaccta gttttgtat ttttgtagg 3752576
gacggggttt caccagtttg cccatgctgg tctcaaactc ctgggctcaa 3752526
gcgatctgcc tgcctcagcc tcctagagt ctgggattac aggtgtgagc 3752476
cactgcccta ggcttattc tttaaaatga tctgcctctt gaaaaatgaa 3752426
agtcttttct caaaaaactt cttcccagggt ctgtgaagca gcacagtggc 3752376
cccttctggc tctcaccttg tacctcgtcc ttgtttgcct cgagcatagg 3752326
accttgtctg tgtttgtgcc tcaggccccc tccctctgtg tttgctgggt 3752276
ccacttagtc tagtcattgg gccttggctc ctaagaggcc cctagactga 3752226
attcctcatc cgatgtgtcc ataccagctt tcaagtgacc tcaacatcga 3752176
cagcagggaa aacattagca cttttgtgac agcctcatat tttccccgc 3752126
ccgagatgga gtctcactgt gtcgccagg ctgggattac aggtgcacgc 3752076
caccacaccc agctaatttt tgtattttta gtagagacag gggtcaccat 3752026

gttgccacg ctggtctcga actcctgact ttgtgatcca cctgccttgg 3751976
cctcccaaag tgctgggata acagggtgtga gccaccgtgc cgggcagcct 3751926
catatTTTTa ataatttaat atctgttttg aataaataaaa tatggtttga 3751876
ttaacaaaa ccatgtgaac aggtaaagct tgagaagtct tgctgctgtt 3751826
cagagcacct gctgtcttca taaccactat tagttgcctg tgggtcctgc 3751776
cactacttac ttgtatgact gtagtaagtg cagatgtaca tattccctca 3751726
gggacgcacc cttctctgtg ttctgttact cactacatag ctcgtggaga 3751676
gcttgctgtg ttcatatata gtttgggtgct ccttcgcttt ctgtagccac 3751626
tgtgaaatgc cgttcatatc ttttgcccca gggttttctt ctggactgtc 3751576
tggctatTTT tttttttttt ttttgggaca gggctttact ctgtcaccca 3751526
gactggagtg caggggcgcg atctcagctc actgcaacct ctgcctcggg 3751476
ttcaagcgat tctcctgttt cagcctccca aagtgcctggg attacaggcg 3751426
tgagctactg tgcccggctt ctgttttatt ttttggtttg attctgtcag 3751376
ttattgagag aggagtgtta agatctccag ctgtgattgt ggaattgttt 3751326
tgtctttaat tctttccgtt ttaacttcat atatgttgaa gctctgttat 3751276
taggcaaata cacacttgtg attacatttt cctgatgaat tgtttgttgt 3751226
agtattctga aatatcctt ttttttccta ataataTTTT ttattttgaa 3751176
atgtatTTTa cttgatatta atagagccac tccagctttc ttaaacacac 3751126
tttttggatg gtatgtatTT ttccattcat ttgtcttaag tgtatctttt 3751076
tctttatgtt taaagtgtct tgtagatagc atgtaattag gtcttccttt 3751026
accaattctg acaatccttg cttataaatt agagttcagt ctgttaatgt 3750976
aagagtaaT atcgatgtgg ctggatttat tgctaccatt ttattatttg 3750926
cctttttattt gtccttttgg attttttccc tgtttttcct ttccttatca 3750876
atgaaatgta tttgagattt ccattgtggg ttatctaag ctttttaaag 3750826
ctattcttct ttgaattatt attttagtgg ttactctggg gtttgaaata 3750776
tgcacccttg gccagggtgcg gtggctcact tctgtaatcc caccactttg 3750726
ggaggctgag gcaggaggat cccttgagcc ccagagtttg agaccagcct 3750676
gggcaacatg gagaaacccc atctctacta aaaatataaaa aattagcctg 3750626

gcgtggtgat gtgcatctgt agtcccagct actcgggcgg ctgaggcccc 3750576
agaatggctt gaactgggag gcggagtttg cagtgagccg agattgtgcc 3750526
agtgcactcc agcctgggca acagagttag actgcatctc aaacaaacaa 3750476
acaaaaaagt ctgggcgtgg tggctcacac ctgtaatcct agcactttgg 3750426
gaggccgatg tgggcggatc acctgaggtc aggagttaga gagcagcctg 3750376
accaacatgg agaaaccccc tctctacaaa aaatgcaaaa ttagccaggc 3750326
gtggtggcac atgcctgtaa tctcagctac tcgggaggct gaggcaggag 3750276
aatcgcttga acccgggagg aggaggatgg ggtgagctga gatcgcgcca 3750226
ttgcactcca gcctgggcaa caagagggaa actccatctc aaaaaaaaaa 3750176
gtttgtaaag agtagctttt gtgatagata ctttggcata ccaagaaata 3750126
tggatgttcc tgtcttcaaa gagtgttact gagaaataca agctttttcc 3750076
tgccctaatt tggtagata aattatacat taacaaaaaa attaacagt 3750026
ggaaatgtca tatgctggca tatagcagca gtttcaaatg agcagcacag 3749976
gctgggcgtg gtggctcaga cctgtaatcc cagcagcttt gggaggctaa 3749926
ggtaggaaga ttgcttgaga ccaggagctt aagaccagcc tggtaacat 3749876
ggaaacaccc tatctctagg aaaaaaaaaa aaaaaagaat ttagtcctgt 3749826
gtgatggtgc ttacctgcag tcccagctgt tcaggagagt aaagcaggaa 3749776
ggtcccttga gcccaggagt tcaagactgc agtgagccat gactgtacca 3749726
ctgcactcca gcctgggtga cagagcaatc tcttttctaa gaaagaaaga 3749676
aatagtaaat acatgaataa atcttttttt tttttttttt tttttgagac 3749626
ggagtttcac tcttgtcacc caggctgctg gagtgcaatg gcacaatctc 3749576
ggctcaccgc aacctctgcc tcgtgggttc aagtgattct cctgcctcag 3749526
cctcccagat agcggggatt acaggcaccc agtgctaatt ttgtattttt 3749476
agtagagatg gggtttcacc ctgttggcca cgctggtctt gaactcctga 3749426
cctcaggatg tccacccgcc tcggcctccc aaagtgctgg gattatggtg 3749376
tgagccactg cgcctggcca gtataaaatt tttttaaatg ggcagcataa 3749326
aaagttaagt gcagtgaact cataggaaga gattattgtg aactgctggg 3749276
gccagggagg cctgaatggg agagagggcc tgcagccagg ccctgcagca 3749226

actcggatgg gaaggagtcc cagctactga gactgcagct gcagagtgga 3749176
ggagctgcat gggcactggc agtagtgggt agggatgtgg ggggtggaag 3749126
gggaggggtg tgtggtgtca cattcaaact atcagtgtt cccattttgt 3749076
gcgaccccaa accaccagat agtttaacag taagatcttg tagcctgaca 3749026
ttgaggtttg tggtttttcc tttaggggtg aggagaaaca caaagacgga 3748976
aattgtacag ctagcgtgtt tggatatctg ttcaggcaga tttattcctc 3748926
taatggttta tttttttttt aatttttaat tttttttttg agacagggcc 3748876
tggctgcatc tcccaccctg aaatgcagtg gcgtgatctt ggctcactgc 3748826
aacctctgcc ttgcaggctc aagtgatcct cccaagtagc tgagactaca 3748776
ggcatgcacc accacacctg gctgtttttt tgtagagatg gggttttgcc 3748726
atgttaccca ggctaatttc aaactcctga gctgaagcga cccccggcc 3748676
ttggcctccc aaagtgtctg gattacaggc atgagccact gcacctgagt 3748626
tagtgattaa aagttgttgt agaagccggg cgcggtggct cacgcctgta 3748576
atcccagcac tttgggaggc tgaggcgggc agatcacgag gtcaggagat 3748526
caagaccatc ctggctaaca cggtgaaacc ccatctctac taaaaataca 3748476
aaaaattagc cgggcatggg ggcgggcgcc tgtagtcttg ggaggctgag 3748426
gcaggagaat ggcatgaatc cgggaggcgg agcttgcagt gagccgagat 3748376
ggcgccctgc actgcagcct gggcaacaga gtgagactct aaaaaaaaaa 3748326
aaaaaagttg ttgtggaaag tttacataac ctgaaatcaa atctgctttt 3748276
aagaatgctg tcaattcaat taatgtaatc ttggcgttat gatactaagt 3748226
cttgcaattc tggctggaat tatagatttc ttattttttt ctttttccca 3748176
attgtgagga cttctatata ctctcccat aatgaatatt atattaaatc 3748126
ctttcaaaaa tataggctgg gtgtagtggg ttgtgcctgt aatcccagca 3748076
ctttgggaga ctgaggcaga cggatcacga ggtcaggagt tcgagacat 3748026
cctggccaac atggtgaaac cctgtctcta cttaaaaaag aaaaacaaaa 3747976
aaacaaaaaa acacaaaagt tagccgggca tgggtggtgca cacctgcaat 3747926
cccagctact tgggaggctg aggcaggaga attgcttgaa cctgggaggc 3747876
agaggttgca gtgagccgag atcacgcat ttcactccag ctctgggcaa 3747826

cagagcaaga ccttctcgag gaaaaaaaaa aaaaattctg catattaatt 3747776
ggggaaaaac caaaaagact agaaaaatga aacatgggga aatcatgttt 3747726
aatcttagag tgaggaaggc ttttacaacc aaaagactaa tttccttttt 3747676
tttttttttt tgagacagag tcttgctctg ttgcccaggg tggagtgcag 3747626
tggcgccatc tcagctcgct gcaaactccg tctcccgggt tcatgccatt 3747576
ctcctgcctc agcctcccaa gtagctggga ctacaggcgc ccaccactac 3747526
gcctggctaa ttttttgtat ttttagtaga gacggggttt caccgtgtta 3747476
gccaggatgg tctcaatctc ctgacctcgt gatcctcccg cctcggcctc 3747426
ccaaagtgct gggattacag gtgtgagcca ccgctcctgg cgactaattt 3747376
ccttaatata taaaaagctc ttacaaatca ataagaagaa gatttaaaat 3747326
gtagtagaaa aattatcaga ggataccaac agtcccttaa caaaaaagga 3747276
aataggaaat atttaaaaat acgggacagt gctcagtttt gcttataata 3747226
agagaaatgt aagtgaaac tgcaagtaaa attttatctg accaataggc 3747176
aaagatccaa gagtttcac tcaacactga cttggcagga atgtaggatg 3747126
atatgcactt tagtacattg ctgtgggaac gtaaaactgat aggatctctg 3747076
tggagtgtga cttggcagta tctaccactg cttcaaatac ataaccctag 3747026
gctgggctg gtgtcttacg gctctaattc cagcgcttgg gaggcagagg 3746976
ccgggggatc acttgagctc aggagtttga gaccagcctg ggcaacatgg 3746926
tgaatccctg tctctacaga aaacacaaaa attagccggg tatggtggca 3746876
tgagcctgta gtctcagcta ctcggaagg ttaggtggga ggatcacttg 3746826
aatccggagg gttgaggctg ctgtgagcca agatcactct actgcacttc 3746776
agcctgggag acagagttag acccagtcaa aaaaaaaaaa aaaaaaaaaa 3746726
ttagctagga gtggtaatac acggcctata gtcccagcta ctcaggaggc 3746676
tgaggtggga ggatcacctg agcccgggaa ggtcgaggct gcagtgcagct 3746626
gtgattgtgc cattgtgatc cagcctgggc aacagagtga gaccctgtct 3746576
caaaatagta gtaacttaca ccagccagtt attgctgtgg tgtttcctga 3746526
tgggtgtgctt tctgttttct gccattcctt gtgtttattc attggaattc 3746476
tgctgtgatg aagagctgct gtcctcctc tgtttaagtg tgcaccgatg 3746426

tttgcttgat ttgccgggtc acagcttaca atccattatt gtcgttcgtt 3746376
atthttgccgc acagattgtc ctagattctg ccactgggag cccttctggc 3746326
tgggctgtgt gttctcctga cacaccccggt cctttctcgt ccttctgcac 3746276
accactgggt gtcctaggct cctctgtgtg ctccgcaggg atctctgggt 3746226
cctgtttttg gagagaggta ttcacaaacc aagatctggc tgccaggtag 3746176
ggtgaccagc cgtcctagtt tgccaggaca aaggctttcc ctgggacgtg 3746126
ggactttaga gtgctgaaac tggaacagct tttggacttt gctctctgta 3746076
gcctaagtgg ggggtcatcg cgcctgggcc ctgtcacgcg tcagtggaca 3746026
gagctgggaa atgtgtgtgt gtaaagtgtc cgggtattgat ttctgcatcc 3745976
agtctgtaca catggcaaag gttgtgagcc tgtactgatg cctgtacctc 3745926
cagtgccgcc ccgcaggggtt tattcctgcc ccttccttat cagtgacttt 3745876
tcttcaactg tgaggacccc aactcagtag ccacaatcag cttttccgct 3745826
tgatcttggc acatgcgtaa atcgggctca gacctgctga ctccgcaggg 3745776
gacacatctc ctgcccagc ctgggtgatg tgtgctgtcc tctgaggtta 3745726
gttttacagt aacagtcaaa gtgctattht ctgaagtctc ttaggttagt 3745676
tcttctttca gagtgggtgat gtcacgtca cagctctgca tatttgctgt 3745626
ttgtatttca ttttgtgttc atgtgcgccc tgthttgttt tcacggthtc 3745576
thtttcttht tctthttctt tctthtttht thttthttcg agacagagtc 3745526
tcactctgtc gccaagtctg gagtacagtg gtgcgacctc ggctcactgc 3745476
aacctccacc tcctgtgttc gagcagtcct tccacctcgg cctcccagat 3745426
agctgataac tagaagtgcg ccaccacgtc tggctaagta atggthttgt 3745376
thttgagtat gagaaacctg accatggttc taagagagac atacgaaaag 3745326
atgtatgtgg aagtgtcatg thccctcagc tctgccagcc ctctccccct 3745276
cccgtthtct ttgcattctc tgtacatatg ctggttgggg gttgaattgt 3745226
gtctccccac gaaagatgtt gaagtcccag ctctcagtac ctgtgaatgt 3745176
gaccatattt ggaaataggg tctttgcagg tgatcaagtt aagatgagtt 3745126
cacttgggtg ggccctaadc cagtatgact gtgtccttat aaaatgggga 3745076
catttgaaca gacagacatg tgtagaggga gaagggcaga cgtcctgaag 3745026

ggaagacaca gggagaagat gaccacccac aagccaagca acgccagagg 3744976
ctgcagaggc tggaagaggc gcaaacagac cctccctccc agcctcagga 3744926
ggaaccagcc ctagtggcac cttgatcttg gacttcttgc ttccaggact 3744876
gtgagagaat aagtgtctgt tactgtaagc taccggggtt gtgccacggg 3744826
gagtttaata cacacctcct gtaggtaacc aagctgtggg gtttgaaggc 3744776
cgggtacagt ggctcatacc tgtcatccta gtgctttaag aggccaaagt 3744726
gggaggatta cttgagtcca ggagttcaag accaggctgg gcaacaaaga 3744676
gaaaccttgt ctctatTTTT attctTTTT aaaaagaggc caggatatgt 3744626
ggctcacgtc tgtaatccca gcactttggg aggccaaggt gggcagatca 3744576
cttgaggatca ggagttggag accagcctgg ccaacatggt gaaacatgt 3744526
ctcttttaaa aataaaagcc aggcattggt gtgcgtgcct gtaatcccag 3744476
ctactaggga ggctgaggca ggagaatcgc ctgaacccag gaggcagagg 3744426
ttgcagttag ctgagatcat gccctgcac tccagcctgg atgacagagc 3744376
gagactctgt ctcaaaaaa aaaagagaaa gatacgttcg cgtcctcatc 3744326
cctggtactt gtgagtgtga gcttatttgg gtcatttcag atgtatcagg 3744276
ttgtgatgag gtcacactgc atgggggtgg ggcctaactc cagtattcct 3744226
ggatatccgta taagaagagg gaaatctgga cacagccagg actcacatag 3744176
agaagagctt gccatgtgac aagagacaga gcctggaggg tctgcaaagc 3744126
atgaaacacc aaggatgccg gctactgcc aagctgggg agaggtgcgg 3744076
gatggactct ccctcggcac ctccagtggg aagcaccgct gccagaacc 3744026
tgggacctt tttttttttt ttttgagaca gagtctcgct gtctcaccca 3743976
gcctgaagtg cagaagtgcg gtagtgtgat cttggctcac tacagcctca 3743926
acatcctggg ctcaagtgat cttccacct cagcctcaca agtagctggg 3743876
actacagggt cacaccacta cacctggcta gtttttgtgt tttttgcaga 3743826
gatggagtct cactttcttg ccaggtggg tcttaaacc ctgggctcaa 3743776
gcgattctcc tgccctggcc tcccaaagt ctgggattac aggtgtgagg 3743726
ttgtgtgcct ggctcagaac tgtggacct tttgaaact cctagtttgt 3743676
ggtgctgtgt ttcagtagtc ctaggaaaca aaatacacag tcacatcagt 3743626

ttctggttta tcctttttgt gtttctttta cacaaatggt gagaaacact 3743576
gatatgctct gtgggcaggt gttggcactt ggacacttcc ctctgtgcc 3743526
cccagggctg gctgtgcttt ggaaggaggc acagagactt cagcaccctg 3743476
gtttgatgta gactgttcgc gaactcctct aatgccaaat accatttaat 3743426
tccagaagaa atgtcccggt attttttttt tttttttaac tgtacgaata 3743376
aagtgaacaa tgcaattaca tgggcccaaa taactggatg tttacatggt 3743326
ttggaatttg aatactttct gaattgtggt agatgttttt aaggtatctg 3743276
catagagata aagacaggct agggttggcc gggcatggtg gctcacgcct 3743226
gtaatcccag cactttggga ggcctagggt ggtggatcac ctgaggtaa 3743176
tagttcgaga gcagcctgac caataagggt aaacctcgtc tctactaaaa 3743126
atacaaaaat taggcatggt ggctgggtgcc tgtagtccca gctactttgg 3743076
aggctgagac aggagaatcg cttgaaccca gaagatggag gttgcagtga 3743026
gccgagatca ctgcactcca gcctgggcga cagagcgaga ctccatctca 3742976
aaaaaaaaa aaaacaaaag gccaggtttg tgctgtttgt aagtccagga 3742926
ataagcctaa agaataggca agttttggct gggcacggtg gctcatgcct 3742876
gtaatcctag cactttggga ggctgagggt ggcagatcgc ctgaggtaa 3742826
gagttcgaga ccagcctggc caacatggtg aaacctgtc tctactaaaa 3742776
ctacaaaaat tagctgggtg tgggtggcagg cgcctgtaaa cccagctact 3742726
cgggaggctg aggcaggaga atcgcttgaa cccgggagggt ggaggttgca 3742676
atgagccgag attgcacat tgactgcag cctgggcaac aagagtga 3742626
cttcatctca aaaaaaaaaa aaaaaaaaaa gcaagttttt gtacctttta 3742576
ggagtatgaa agttgatatg ttaatttttt ttttttttg agacagaatg 3742526
ttgctctgtc acccagcctg tagtgcagcg gcacgatctc ggctcactgc 3742476
aacctccact tccaagttc aagccattcc cctgcctcag tctcccagat 3742426
agctgggatt acaggtgcct gccacatgc ccggctaact tttgtatttt 3742376
tagtacagat ggggtttctc catgttggcc aggctggtct cgaactcctg 3742326
acctcatgtg atccgcctac ctacgcctcc caaagtgtg ggtttacggg 3742276
cgtgagccac cgcaccctg gctgatatgc tgatttttaa aaccttgatt 3742226

cctggatatt ctgttgtctt tcctttctac ttgttacaaa tttgtgaaga 3742176
acaggagagg ctcccagtta gatgcggttc atttaggctt agactttgac 3742126
acggcgtggc tggctggcca catatccttg acaccatcac gtattgcaaa 3742076
tctactgacc aaggcaggggt cctgggtatgt ggtccctggg gtcagtgggt 3742026
gttgggtgttg ggtcgggtcca gtcctgtgtt ggagtgaaag tgtctggttt 3741976
ctgggcctgc gtcgggtgaac tgcgtgcggc tggggacaca ttggctgctt 3741926
tcctccctcg ctgggctctg ccggcaactt tctcagcca ctggactgag 3741876
caggaagtta cagaagacaa gtctccttct tagttagaag gtagaaccca 3741826
tcgtcagctg tttttcagtt tttaaagtac acaaattttt tttaaaaaat 3741776
ctgtttttgga tgaaaaagca atgggaaaga atcaactttt agaagatgag 3741726
acagtttcag aatattaaca tttaaatatt tggatccctt ttgggaggat 3741676
tttttttttg cttgactgtc aagagcaaag aagtgtggcc catcgggggc 3741626
ttctgcaggg gctgcgaggg tcgagacagg tttcagtttg gtaggttgat 3741576
gcgaggtgtc acccgtgagg cgaatgtggg aagtgtgtc agcaggcatc 3741526
tgccagctgg gcatggtggc tcacgcctgt catcccagct ctttgtaagg 3741476
ccaaggcggg aagatggttt cagcccagga gttcgagacc agtcttggca 3741426
acatagcaaa accccatttc taaaaaaat tttttaaaaa attatggggg 3741376
catggtggtc tgtgcctgtg gtcccagcta ctcgtgaggc ggaggcagga 3741326
gcattgcctg agtccaggag gttggggctg cagtgtgctg tgatcgcagt 3741276
gacagagcga gacccctct gaaaagaagg cagcagcca cccctccag 3741226
tttcgcttct gcggttctga gaagacacag tatcttacac tgatgacatc 3741176
tgtgagggt ccttgccaaa accacaccct gacactgtgg catttgggcc 3741126
tgtggatttc tctttcagca acagcccgc ttagagatgt ccacgctagc 3741076
ttctgctaga cacccttgat gggacgaatt accatattgt ttctcgtgtc 3741026
ttcctaattc tcattctttc tgcatatttg tcttttcagG AAAACCAATT 3740976
CTGTGTCCTC GGAGGACCAC AGCCCAGTTG GGCCCCAGGC GAAACCCAGC 3740926
CTGGAGCTTG CAGGCAGGAC GACTGTTCAG CACGCAGACC GCCGAGGACA 3740876
AGGAGGAACC CCTGCACTCG ATTATCAGCA GCACAGAGAG CGTGCAGGgt 3740826

agccttggct cgtgctttgg tctgggaggg ctttttgggt cactgctgtg 3740776
cgtaaagggg cattttcagg gtggaggcag tgattggtag agccaccgcc 3740726
ttaggtgtga aatcagaagg tcttggctgt agggagtgtc gcgccctcca 3740676
tttctgtccc agcgaggggac ttctgccagt gtcgggtgtg tcttgccccc 3740626
tctggtggcc acccgtgagt ttgccgtccg gcacctcccc tgagtgggtga 3740576
ttcatggcac atctgctaata aatcatggaa gcgggagggg aaactcagca 3740526
ttggcccagt ctgctgcagg ccgaattctg gagctgtctt ttcattccct 3740476
ctgaagtata aaaaagcagt ctttggagcc agtcctgaag tggctccatt 3740426
tctggcctttt aagtgggtcg acaagagtag aatctttgaa gttaaaaaga 3740376
gaagtgaggt tttcttggtt ttttgatttc taactaatta atttggaaac 3740326
cgcttttttg aagaatatag tccaggcaca gtggctcaca cttgtaatcc 3740276
cagcactttg ggaggccgag gcaggaggat tgcttgaggc caagtgggtcg 3740226
agaccaacct gggcaagata gaccctttct ctacagaaaa aaattaaaaa 3740176
gttagccagg catggtagca cacaccagt gttccaggta cttgagaggc 3740126
tgaggcagga gaatcggtt agcccaggaa gttgaggctg cagtgagcac 3740076
gatcctgccat ctgcatagca gcctgggcaa cagagccaga tcctgcctct 3740026
aaaaaaaaa gaaagaacat ataatctggt tcttagaggc agtccagttc 3739976
tcgtaacct gcacattggg aaaccaggct cagcattccc tcgacatagc 3739926
ccgaggcatg tctggcctca gcagtgggag gatttgcct gccctgagac 3739876
ctcctttctg agagactttt tgttttgttt tgttttgaga cagggtcttt 3739826
ctctgtcacc caggccgagt gctgtagtgc aatcatggct cactgaagcc 3739776
tcgacctccc tggtcaagt gatcctccca cctcagcccc ctgagtcact 3739726
gggaccacaa gtgtgtgcc ccaccgtcag ctactttgtg tattttttgt 3739676
agagatggcg ggatccctct gtgttgccca ggctgggtctt gagctcctgg 3739626
gcttaagtga ttctcctgcc ttggcctccc aaagtgtgtg gattacaggc 3739576
atgagccatg gtgcccagcc agactttgtt tctgtctgtc tctttctttt 3739526
tgttcatgat cttaaagtgt tgggaggccg aggcgggcca atcatgaggt 3739476
caggagatcg aggctatcct ggctaacatg gtaaaacccc gtctctacta 3739426

aaactacaaa aaattagccg ggcgtggtgg caggcacctg tagtcccagc 3739376
tactcgggag gctgaggcaa gagaatggcg tgaacccggg aggcagagct 3739326
tgcagtgagc cgagatcgtg ccactgtact ccagcctggg tgacagagcg 3739276
agactccgtc tcaaaaaaaaa aaaaaaaaaa aagtttaaaa ctcataaaact 3739226
taagctttct ttggaatgtg acgtagcgta ttcttgacaca aaaatagaag 3739176
ttaaaccttg ttggttgtgt ctgtgtttca ttactagGTT CCACTTCCAA 3739126
ACATGAGTTC CAGGCCGAGA CAAAGAAGCT TTTGGACATT GTTGCCCGGT 3739076
CCCTGTACTC AGAAAAAGAG gtgcgttccc tgctaaccat gcccgatgct 3739026
agcaaagttt cttttcacaa agctggtttt tatgccattc tggagaattg 3738976
ccagataata tattagctgt gagaaagcat taaactttgg acaggtcctc 3738926
atcttaagct accagtgaga ggagttttac cagaatctgt tttggtttcc 3738876
tggtggaagt tatccagatg gttctttggg ctggatcaac tctgggaatt 3738826
aattgaattt tgccaataat tttaaaagtt cccgaaatac aggcctggtg 3738776
tggtggctca tgcctgggaa ctgagtgctt tgggaggtcg aggcaggagg 3738726
atcacttgag cccaggagtt tgagaccagc ctggtcaaca cagcaagact 3738676
ccgtctctac aaaaaattta aaaaattagc cagctatggg ggcactgacc 3738626
tgtggtccca gctactcagg aggctggggg gggaggatga cttgagcctg 3738576
gcagactttg gggctgcagt gagccatgat tgtgttacta cactgacctg 3738526
cacaacagag taagaccctc tctccaaaaa aaaagtcccc caaatcctag 3738476
cgtgcagctc tgctgaattc cgtctctgtg gagctttgga tacgctctga 3738426
ggcccctttg cctggtggga ctacctgcag gtcttggcgg ctttggtgctg 3738376
cggaggaaga aggttcccca gtcctgtgtg tatggagcag ggaggagtta 3738326
ctgaggaaat taaaacgcat ttggggccag gtgcggtgac ccacacctgt 3738276
aatcccggca ctttaggagg ccaaggtagg aggattgtgt gagtccagga 3738226
gtctgagacc agcctaggca acgtgaagag accccatctc tattaataaaa 3738176
aaccgcaaa aactcatttg gggtgacagg acaaggaaaa agaaagatga 3738126
aggccaccat cgttgacatg ctgattattg ctggaaggca aaggagagtc 3738076
ctgaagaaag tttgtaaagc agcagatttc aaagctcaga gggccttcta 3738026

ggagctgttt ccgggtttcg tactgatgag tgctgcattc ctgactccca 3737976
gtgacctcca gcttccgccc agatcagcca ccgcttcctc ttcacctatg 3737926
tgctcttgcg gacttaattt ttctattttt aattgtgtgg gtttttgttt 3737876
tttttttttt tgggttttta attttttggg acaggggtctg ggtctgacgc 3737826
ccaggctgga gtgcagtggg atgatctcgg ctcgctgcaa cctccgcctc 3737776
ctgagctcaa gccatccttc ctctcagcc tctggctgat atttgtattt 3737726
ttttgtagag acggagtttt gccgtgttgc ccaggctggg cttgaactcc 3737676
tgggctgagg tgatctgcct gtttcagcct cccaaagtgc tgagatcaca 3737626
ggtgtgagcc accacacccg gcctctctca ctgattttaa atggaaggtc 3737576
tgtttgaggt cagtgtgctt ttcagctcct gagggacagc tgggccctga 3737526
ggcctgtttt tctccgggtg tggtagacct ggtgtttggg ggtccccact 3737476
agatgagatg aagctaggga acctgttttt gtggagtagg agtgtattag 3737426
tccattttca cgttgctgat aaagacatac ctgagactgg gcaatttacc 3737376
aaagaaggag ctttaattgg acttacacct ccatgtggct ggggaagtct 3737326
cacagtcatg gtggaaggca aggaggaaca agtcccgtct tacatggatg 3737276
acagcaggca aagagagaat gagcaagaca caaaagcaga aacccccaaa 3737226
aactgtcaga tctcatgaga cttactcact accacgagaa cagtactggg 3737176
gaaacggccc ccatgattca cttatctccc accaggctcct tcccacaaca 3737126
cgtgggaatt atgggagtac aattcaaggg gagattttcg tggggacaca 3737076
gccaaaccat atcaaggaga aatggatgtt tgagtatat gccgtcatcc 3737026
ctgtgcagga gttgggaaag aaattgttcc tcgcaggcct cttttgtttg 3736976
tttttttgag acagagtctc tctctgtcgg ggctggagtg cagtggtgcc 3736926
atctcggctc actgcaacct ccgccttgtg ggttgaagcg attctcctgc 3736876
ctcagcctcc tgagtagctg ggattacagg tgtgttccat cacgcccagc 3736826
taattttaat attttttagta gagactgggt tttgccatgt tggccatgct 3736776
ggtcttgagc tcctgacctc aagtgatcca cctgcttcag cctcccaaag 3736726
tgcctggatt acaagcatga gcccacaacc ccagccagag ggctcttctt 3736676
aaagttataa ttaacagatg gacacgtaac ttcaggcttg attaaaaatc 3736626

ctgaaaaggg ccaggcaccg tggctcacgt ctgtaatccc aacacttttg 3736576
gaggcggagg cacaacgatc acttgagcct gggagatcaa gaccagcctg 3736526
ggcaacatag cgagaccctg tgtctataaa aattttaaaa caattagctg 3736476
ggtgtggtgc atgcctgtgg gccagctac ttaggaggct gaggtgggag 3736426
gattgcttgg gtccaggagg ttaaagctgc aataagccgt gattgcagcc 3736376
tccagcctga gtgacagagt gagactctca aagaaatcct gaaaggaaa 3736326
tcagcacctt cagtcacttt gtgaccggcc cagaggaact gcctttgact 3736276
aaagcagaaa ctctttatgc ttgagaatt gactattctc ctctaccttt 3736226
taacagttaa tggaagtga gctgaccaga tagatcctgc aggatgagt 3736176
tccttcattg tctgtgcctc ccatttctat tcctgtagGT GTTTATACGG 3736126
GAGCTGATCT CCAATGCCAG CGATGCCTTG GAAAACTGC GTCACAACT 3736076 [R128H](#)
GGTGTCTGAC GGCCAAGCAC TGCCAGAAAT GGAGATTCAC TTGCAGACCA 3736026
ATGCCGAGAA AGGCACCATC ACCATCCAGg tacctccctc agtgtccagg 3735976
cgtgtggcag gcccgccat gcagcaagga caggatccgc cttctagtga 3735926
tgtctcgggt cccagggacg tactggccgt ccgtaccacc aggataactc 3735876
tggctataat ttagtgttac agtagcactc attcattata gaaaattttg 3735826
gaaaagcagg taagcagaaa agaagaaaat ttgaaatcac cccatcatcc 3735776
agcaataact actggtaaca tcttagcata tggccacaca gggttttggt 3735726
atatgcagggt attaacatat ctaaacatat cttattttta atgtactctt 3735676
ttcatatfff taactgcgtt ttcccctcaa aatgccgacg aagcagtgct 3735626
gtggctgctg ctgtagcctt gtggaaattt taaggctgaa aagttaggcc 3735576
aaagaggatc aggtaggggc cctgagagac attgcatcca aagacagctg 3735526
cctcaggacc tgtcatcca gggtcacggc gtcattgcgg ggggtgtctgt 3735476
ctctgtggag aggtggacag actggcctcg gtgggatctg agtattccct 3735426
tttaggggtgc tggcttgctc tgaaggatcat gccacataaa tgaatgcagg 3735376
cacgcgtgaa tgaatggact tgtgaaggga tggctgtttt aattaaagga 3735326
ggggcttttg tgagggtgca gctttacgca ctccctcttg ggtttagaga 3735276
atccagactg agccccgtgg tacgtgccag ctgtttgtca tagcccttgg 3735226

tcataaggat tgggtgggga gtgggtttct tctctccctg cctttgctga 3735176
gctggcctgg ctgtggaatg ggccctgtgg gcagggctgc agcgccctgt 3735126
gctttcctcc tgttttcagc acagaggttc cttgcagatg attgaaaatg 3735076
gatgtgctgg ggcaaggggt catggggaca tgattcttgg tctttagcag 3735026
agggggccagt cctcatgtgc cagtacttcc tgggtactaag accatttatg 3734976
ttacaataat gatttttggg tttgtctttt gtcttctttt ttcttaaaga 3734926
acagtcttag atttacagaa aatttgagca ggtaatttag agctccatta 3734876
tatcctttgg gaccagttt ttctattctc aatagccgat gggagcgtca 3734826
tgggtccattt gtttcatctt ttttcctttt ttttggagac agagtgtggc 3734776
tgtgtcgccc aggctggagt gcagtagtgt gatctcagct cactgcagcc 3734726
tccgcctccc aggtccaagc aactctcgtg cctcagcttc ctgagtagct 3734676
gggattacgg atgtgtgcca tgatgcccaa ctaatttttg tatttttagt 3734626
agagatgggg tttcaccacg ttggccaggc tgggcttgaa ctcctgccct 3734576
caagtgatct gcccgcttg gcctccaag tgtagatta caggcatgag 3734526
ccaccatacc cagcccattt attacaatta attaactaat attgatagat 3734476
tattcttacc taaagtttta gaaaaggaag ctttcttgtg ggggtctcaga 3734426
gggtattatgc cattccatct catctactga tatctcagct acattgcttt 3734376
ttgttatttt taggggattt tctagggaaat aaaatatgca gccttaattt 3734326
atcactgtct agcttgaatt gatatttaac acttcattgt aagaatctta 3734276
caacagtatc attccggtgg caaaatcatc ttttctttt gatgtcaaat 3734226
attttatgta tatacctgtt gtaaaccctc acaaattcct ttttattttt 3734176
gtttgagaca gagtctcatt ttattgccta ggctggagtg cagtggtatg 3734126
atctcacctc actgcagtga ggcctctgcc ccccggtttt aagtgattct 3734076
cctgcctcag cccccaagt agctgggttt acaggcacat gccaccacac 3734026
ccggctaatt tttgtatttt tagtagagat ggggtttcac catgttggtc 3733976
aggctggtct caaactcctg acctcaagt atctgactgc cttggcctcc 3733926
caaagtgctg ggattacagg cgggagccac cgcgcctagt ctcaccattt 3733876
ccttttaaaa tcacattgtg cgggtcgcct ggcaacagat gatttctgtc 3733826

tacatctgaa aaatctatag tttttttttt ttttttagtaa atatttttaga 3733776
acagatttca attttcagaa aaatttttaa gatagtacag cgttgccatc 3733726
tactccaaca cccagcttcc cttatgattg aaaccttatg gccgggtgca 3733676
gtggctcacg cttgtaatcc cagcactttg agaggccaag gtgggcggat 3733626
cacctgaggt caggagttca agaccagcct ggccagcacg gtgaaacccc 3733576
atctctaata aaaatacaaa aattagccag atgtggtggt gtgcacctgt 3733526
aatcccagct gctcaggagg ctgaggcagg agaattgctt gaacccggga 3733476
ggcggaggtt gtggtgagct gagatcgcgc cattgcactc tagcttgggc 3733426
aacaagagtg aaactcgtct caaaaaaaaa aaaaaagaaa tgtagtata 3733376
ttacattggt tacagttaat caaccggtat ggatatatta ttcttaacac 3733326
aagtctattc aggtttcctt agtttttacc tcatgtcctt tttctctccc 3733276
agcatccac atgacattta gttgtcctgg ccccttagct cctcttggt 3733226
gtgacagttt ctcagacttt cttgttttt gatgaccggg aagatttttt 3733176
tttttgaaat ggggttttgc tcttgttgcc cacgctggag tgcaagtgtg 3733126
tgatttcagc tcaactgcaac ctccgcctcc cgggttcaag caattctctt 3733076
gccttcagtc tctcagtag ctgggattac aggtatgtgc caccatgcct 3733026
ggctaatttt gtatttttaa tagagacaga gtttctccat gtcggtcagg 3732976
ctgatcttaa actcccggcc tcgtgtgatc tgccctgcctc ggcctcccaa 3732926
agtgtctggga ttataggcat gagctaccgc acccagcctg acctggaagg 3732876
tttttatgtt tgtttagagt caggatcttc ttccgtctcc aggttggggt 3732826
gcattggtgc tatcagggtt cgctgcagcc ttgacctctt gggctcaagt 3732776
gatctaccac atcagccccc ttagcttagg gccacaggca catgccacca 3732726
tgcctggcta actttaaaaa aattattttt ttgcccaggc atggtggctc 3732676
acgcctgtaa tcctagcact ttgggaggcc gtggcgggca gattgtctga 3732626
gctcaggagt tcaagaccag cctgggcaac gtggtgaaac cctgtctctg 3732576
ctgaaaatac aaaagaaatt agctgggtgt ggcagcgtgt gccggtagtc 3732526
ccagctactc gggaggctga ggcaggagaa ttgcttgaac tcgggaggcg 3732476
gaaggtgcag tgagcggaga tcacaccact gcactccagc actctagcct 3732426

gcgtgacaga gcgagaaatt tttttttttt tttttttgta gaggcaggggt 3732376
cttgctttgt ggcccaggct ggtgtcaaac tcctgggctc aagcaatttt 3732326
cccaccttga ccttccaaag tgctgggatt acagatgtga gctgttgtgt 3732276
ccagccctat gttttcttct agagggtttta tagcttttagc tcttatattt 3732226
agatctatga tccatttcaa gttaattttt gtgtatgggtg tgaggtaggg 3732176
cttgagggtt atgttttgtt tatgggtgta cagttgtttc agtactatct 3732126
gttaatagac ctatcatccc ccattgaatt accttggaat ctttgtcaaa 3732076
aatcaagtaa tacactctct gtgcatctct gttcctgtgc tctgtttgggt 3732026
tctttcatcc atgtgtcgat ccttaaattgc ccacatcgca ctgtcttaat 3731976
tattgtagct ttataggaag tcttaaaatt aggtatttta aattctccaa 3731926
cttcgttctt caaaatattt tgaaaatttt ctaagttctt tgtatttcca 3731876
tatacatttt agaatcggct tgtcattttc tacaaaacct gtgaggattt 3731826
agactgggat tgcagtgcag atcagtttgg gaaaaataa aaataaattg 3731776
aaaataggag ctattagttg cattttttcc tttaccttgg tctaacatta 3731726
acctttccct taaggactct atttaagttt ctgatgtatt aaacacttaa 3731676
atgaaactta tatttaatga ctgatatcaa ctagatacta attttaagta 3731626
gttttttatt cataattatt acatgatcta caataaatga atcaggctgg 3731576
attttgact attcaaaccg gcacctcaga aataattgcc cagaagcctc 3731526
ttgggtgcat gtttcttgtt ggctgctggg gcccgtagaa catgcacaca 3731476
tgtgtgcact gcagtaactg gtggtgatgt ggttttggca cccattctgc 3731426
ctgtgctgcc tacaatggga aggctgacag ctggccagtc tccctggcct 3731376
gctgcttgc gtggattatt tgctgagtgg cactgaccac ccttgctttg 3731326
ccaatggaga cagcactggc gcctgggtgct agtgggctcc catggctcct 3731276
gcaggctgtc ctggagagga agtctttaga aaggaacttc ctagaaggaa 3731226
gttcagaaaa ctgtttctga gggcctttgt cccaattcat agatgtggag 3731176
gcttgagtg agctctttta ttttaagggtg tctgcacatc atagcagagc 3731126
aagctggggc tgtggctaca ttatgggcat gttgagcgag gatctgcaga 3731076
tgggagtctg actgggcttt gaggaaggag gagcccatgg tcagtaaggc 3731026

cttgtgtgtt caccagcgcg ttggtctgta ttgtgattca ggctgctata 3730976
gccgaatacc ttagactggg caatttataa acaacagaac cctattgctt 3730926
acagttctag aggctgggag gtccaagagc aaggggccag cagattgggc 3730876
atctggcgag ggccctttga ctccaggcagt gcctcttgca tcttcataca 3730826
gaaggtggaa ggggcaggca agctccctca agcctgtttt ctaagggccc 3730776
tactcccatt catgagagtg gagccgtcgt gacttgatca cctccccaag 3730726
gccccctcc cagtgccatc cccttgggac ttaggtctta atatatggat 3730676
ttgggtgaca ctggcactca gagcagagca gctgcaacag gataggccag 3730626
atagaggctc caacgcaagg gctctgcctt cccgcaggag aggcgtctgt 3730576
gcccgtgtt cccatggtgg tagggtggga gtaggtgccg cgtgcagagc 3730526
tgcgttccca acacctgctt cctggtgtcc tcagtcagat cattctgctg 3730476
gattgagaga gccaccagag gggatcactg ttccccagaa ccacagccag 3730426
ggagaaggcg tgggggccac atcttgatgg tgggagagct gtgcttttcc 3730376
taattgctgg tgtaatat tcttttcgga atggttttta acaaacaag 3730326
caactttctg ctgtcccttc ctgttttctc tggtagaggc aagctgctat 3730276
gactagaatt agtcttttcg ttttttctt tttttttttt gagatggagt 3730226
ctcactctgt caccaggct ggagtgcagt ggcgcaatct cagttcactg 3730176
cagtctctgc ctctgggtt cactgggctc aagcaatttt cctgcctcag 3730126
cctccgagta gctggaacca cagggtctcg ccatcatgcc tggctaattt 3730076
cttttttagt agagatggg ttttaccatg ttggccaggc tggctttgaa 3730026
ctcctggcct caagtgatcc gcctgccttg gcctcccata gtgctgggat 3729976
tacaggcatg aaccatcact cccggccctt agaattagtc ttttctgatg 3729926
agcatctggt gctacctggc tgggccctgt ctggccaatg tcattgacac 3729876
cacttgagtc cctgggactg ctggtgcact caccggctc cccagggtgct 3729826
gggggcttgg cacttagtgc gtctctctcc tcagGATACT GGTATCGGGA 3729776
TGACACAGGA AGAGCTGGTG TCCAACCTGG GGACGATTGC CAGATCGGGG 3729726
TCAAAGgtaa gcgtggggcc cccacacagc ctcccccttc ccctcagggt 3729676
gcaaggatcc ctccagtagg ggtggccctg ggtgccagat taagtaagaa 3729626

cgttgtcagt tgcattgccac gcagtgggta ctgtgggaac acctcatgac 3729576
atgacagcca tccctcagta tctgggggtt ggtccctcag tatctagggg 3729526
ttggtttcag gacccccctt ggatagcaaa gtctgcagat gctccagtcc 3729476
cggattaaat tgggtgccgta tattgttagac acatcttctt gtatgcttta 3729426
gatgggtctct aggttagtta taatacctga tagaatgtaa atgctagata 3729376
tagatataac atagtattgt tttttatact actttttatc attgtgttgt 3729326
tttttatttt ttttctgagt attttcgatc cttggctggg tgaatctgca 3729276
aatgtggaac ccgtagatag gaggaccaac tgtattggct cactgcaacc 3729226
tctgcctccc ggttcaagca actctcctgc ctccagcctcc caagtagctg 3729176
ggattacagg cacgagccac cacgcctggc caattttttg tatctttagt 3729126
agagacgggg tttcaccatg ttggccgggg tatcctccag cctcagcctc 3729076
ctgaggcgtg actacaggtg cacgtcacta tgcccagacc cacagagcag 3729026
ttctgaccag aaccatcaaa cccacagacg ccgcatccca agcccgttct 3728976
catcacggcg ctgtgtgaga ggggactgat ccctctgacc ctctctgcgt 3728926
caagcccaca aggtcaggg aatcgacttt gcagaaaagt gctgtgaggc 3728876
agagcaacac atttgactc agaccaacag cctgggaacc tccagcggtc 3728826
gcccttttcc agctctgggc aaagcactta cttcagtctc ctcatctgta 3728776
agatgaaaac actaggtcgg gtgcgggtggc tcacgcctgt aaccccagta 3728726
ctttgggagg ccgaggcagg tggatcacga ggtcaggaga tggagaccat 3728676
cctggctaac acggtgaaac cccgtctcta ctaaaaatac aaaaattagc 3728626
tgggcgtggg ggtggtacct gtcatcccag ctactcggga ggctgaggcg 3728576
ggagaatcac ttgaaccgag gaggcagagg ttgcagttag ctgagatcac 3728526
gccaccgcgc tccagcctgc gcgacagagc gacactccat ctcaaaaaca 3728476
acaacaacaa caacaacaaa caaaaaaccc accctaactg tgacttgacc 3728426
cccacgttac gtcttttgtt gtatttctct cgaggtttgt ctgctgtcct 3728376
gtgtagcggc caccagctgc atgtggcagt ttaaagttaa atgcattcaa 3728326
attaaataaa aggggacatt gtgctcctca gctgcacagg ccacattgca 3728276
ggtgctcggc aggtgtcgc attgcacctg gcagaacgtt cctgttgttg 3728226

gagaaagttc catcggacaa cgtgggccag ggcagtgggc gtgtgtatatt 3728176
tacttgactt tggccttagg acctttggca gtattatagt agaaaaatga 3728126
agtgtgtgc ggtgcttaca gacgcatgcg cgtgatttct actctttttc 3728076
ccacaaagtg tagagtccag gagacttgaa tatggaagcc agtttggagc 3728026
ctctcctcac tcctggcctt cctatggaag gagcttattc aagggaaaga 3727976
gcttattcaa gctgctcttt cccaccccc aggtgtgacc cacaggcctc 3727926
cacctgtctg ggacaggcag gactgtgagc tttgggaatc aaatggaaaa 3727876
cacacttgtc ccactgctgc cagctggttg tcctagggct aatgtgtcac 3727826
ctctctgtga cttagctctt cacgtgtaga atgggggtgga aaagtactcg 3727776
gtgtggctgt tttcaggatg aaggggtctt agcggtgctc gcagaagagc 3727726
cacggtgttg ggagtgtctg ctctctggag gggaggctgc ctactaact 3727676
ggcctctgcc ccacagGCCT TCCTGGATGC TCTGCAGAAC CAGGCTGAGG 3727626
CCAGCAGCAA GATCATCGGC CAGTTTGGAG TGGGTTTCTA CTCAGCTTTC 3727576
ATGGTGGCTG ACAGAGTGGG GGTCTATTCC CGCTCGGCAG CCCCGGGGAG 3727526
CCTGGGTTAC CAGTGGCTTT CAGATGGgtg agtgacgaat gtcgcctgac 3727476
aggcagctca aagctgagct ggagccctta gcatggagtt tggaaaggga 3727426
tggactcaga aaacgtacac aggcattttc tgggcttttt atatgaaatc 3727376
tgactctccc attttgggga gttagtgact tttgtggctc cagggtggcct 3727326
atggcacctg tctggtccca tgtggttggg caccaccact gcgctcggga 3727276
aggcaggctc ggcccgcgct gagctccttt ctcagtggct gagctgcagg 3727226
actggcctgt cgcctggtgg acactatgca gcctcctgtg accgaccttc 3727176
tgcaagagct cattctgctt cctcccagcc ctggcatttc ctggctttgt 3727126
ctccccagcc cacttctgcc tctatagggg gaggagcctg ctgggggctt 3727076
tttttttttt tttttccttt gggacggagt ttactcttg ttgcctaggc 3727026
tggagtgcaa tggcacaatc ttggctcact gccacctccg cctcccagg 3726976
tcaagcaatt ggcctgcctc agcctcctga gtagctggga ctacaggcgc 3726926
atgccaccac gccagctaa ttttgtattt ttagtagaga cagggtttct 3726876
ccatgttggg cagactgggc tcgaaccccg acctcagggt atctgcccgt 3726826

cttggcctcc caaagtgtcg ggattataga cgtgagccac cacgcctggc 3726776
tccgagggct ttttagcagg tgagccgctt ccagccagcc gaggcgtcct 3726726
ccctccgtga tgccatttct gctccacagt gtgtgcactg tgctcagctt 3726676
gactccccac tctcccaaaa ctaacattcc tgtttaattc catgggagcg 3726626
gggctcagag taaacttagg ccaaggcatc aacatggccc tgccggggga 3726576
ttccccctc ctgtgcttcg gagatggttt tctgctcttc ttagggggcg 3726526
cctgtcccc tggcctttgt tttgcccct gggcatctgg cacccgattt 3726476
ggagctgggc cagtcccca cagtgcccc ggcttgcttt tggggaagc 3726426
ccagaagctt cttcgaagcc cagggtcggg ggaggacccc cgcccccccg 3726376
ccccccgcc gaggaacca ggagaactct gccgcctgcg acaggctcat 3726326
cgttcctgat gggcatgtga tggcctgagt ggtgcgctgg ggtcagaaat 3726276
ggggcatttg aggtgtgttg tgtgttgtt gggctctgcc tatgaaacc 3726226
tcgggaaccg ctggagtccc atgcagggtg tgtcccagtg tcacatccac 3726176
ctggcttttc ctttctttgc ctgccttagT TCTGGAGTGT TTGAAATCGC 3726126
CGAAGCTTCG GGAGTTAGAA CCGGACAAA AATCATCATC CACCTGAAAT 3726076
CCGACTGCAA GGAGTTTCC AGCGAGGCC GGGTGCAGg tgagcgggag 3726026
cccgggcca ggctcactct gggatccatg tgtggcctgg aggccaccag 3725976
gtcagcaggc attttccctg gttctacctg cacgtagggt gcacaggcag 3725926
agccgtgaag ggccgagccg ctgcgggact gggagggggg ctgcccgcc 3725876
gggctgcgta gcatcgagct cctgctggga ctgggaggaa gctggcctgg 3725826
ctgaggcgga cctcctctc cttcctctgc gtggcccttg gccttttagtg 3725776
cacctggggg tttggcgag tcctgtcca ggatgtgggc gtggccttcc 3725726
ctcttttgtt cctgctggac actcaggag gccctgagta ccccaggag 3725676
tcagcccaga aagccatgtt ccagccacaa gctgacattg cagtctcgca 3725626
gcagccgggg cctccacagc tctggttctc acgtgggctc cgctgctgcc 3725576
cccgtgagac tggggggagg acagggtgcc ccactgtgcc ctgtttctgt 3725526
acctgtgaag tgtacacagc atggaggacc cttcccagca ggctggcgct 3725476
catcctggag ctgctgcaaa gcttgcgttt ccacaagcat ttagatgca 3725426

gtgtgggtttt tcttttgtcc cttccagATG TGGTAACGAA GTACAGCAAC 3725376
 TTCGTCAGCT TCCCCTTGTA CTTGAATGGA AGGCGGATGA ACACCTTGCA 3725326
 Ggtgagccct gagttcctct agggactggt caaacatgga gacaaatctg 3725276
 tacgtttcag ggcagcggag aagagatgag cccaggggat gcggcccaga 3725226
 gtcacagggc gagctgctct gtggagatga gacctgggtg tggggatgag 3725176
 acagggggccc agctctacca cagccctgcc cctgtgcacc gggcagccgg 3725126
 ggtcaggggt cagggttcac tgaggcgtaa cgcccatccc agctggctca 3725076
 ccacatcagt gtgcagccat ggtgttcagt gcagccacag agctgtgcag 3725026
 ccaccccga tcaattccag aacatcccat caccctcaaaa agcagccctt 3724976
 tccccactgc ccctcccca gtcccagcag ccacggtctc ctttctgtcc 3724926
 attgtgctgc ctgttccaga cgtttctcct ggatggagtc acacggcatg 3724876
 ctgtcctcag tgactgactt cccctcgcg gctcagctgc ggtgcagcgt 3724826
 gggtcgtcat cgctctcacg gccacactg tattcgtcag ctcgcccctg 3724776
 ctgggcagcg tcatcctctc ccacaggccc cctcaggctc cggctggtcc 3724726
 tcctgacatg ttgtcctgag gagctcctgc cccagagcct tgttgtctc 3724676
 ccctgcacta cccggcatag cccagcgggtg gggctggaga ggggtctacg 3724626
 cctgagacca ccgcccgtct gtcccaggag cctgtccagg gccaggcgt 3724576
 gactggctc aggcctgcac ggtggtggag aagacgtgcg tggatgaacac 3724526
 gacgccctcc ccgccgatct ccgtttccag GCCATCTGGA TGATGGACCC 3724476
 CAAGGATGTC CGTGAGTGGC AACATGAGGA GTTCTACC~~GC~~ TACGTCGCGC 3724426 [R316H](#)
 AGGCTCACGA CAAGCCCCGC TACACCCTGC ACTATAAGAC GGACGCACCG 3724376
 CTCAACATCC GCAGCATCTT CTACGTGCCC GACATGgtga ggcactgtgg 3724326
 cagtcccacg gccctcaggg tgactctgtt gtcccctgtg gcatcagctc 3724276
 tgcagatgtc acatgattaa catggcagtg tgagggcatg aaaaacatag 3724226
 gtagtgctgg gtgtggtggc tcacgcctgt tatcccagca ctttgggagg 3724176
 ctgaggaggg tggatcacct gagcccagga gttgcagacc aggctggcca 3724126
 acatagttag accccatctc tgaaaaaaaa gaaaaaaga acagatgcct 3724076
 ctgggtgggt aaccacagag gtttcctctg tctcaggggt cacacatggc 3724026

gaggggaagga ttgatgggca tctcagtga ggctgggggtg gaggcttgtg 3723976
gactgggggtg tgcctgggga gggccctcag agcctacatc atctgctgtg 3723926
gatcagtgga tgctgtcctg ccaggcgctc tgggaagggc ctgtggtctt 3723876
gcctctccgt tggcctctct gtgtgcttcc tccacaccct ccacctcccc 3723826
tggtttcctt taccacattg aagtccccgc aaatcctgcc gtaaggagac 3723776
ctattcgggg ctgagagcca gcccgtcctg cccccaggct cttctgtcct 3723726
tggctgcctg gaaactctcc taatgtcctg cacagctggc atccatcttg 3723676
gaaagagcca gccagggtgtg gcctccaggg gcttgttaga gtctcaggcc 3723626
ccaccaggg ctctgcgtg ggagcccaca ttttaataag atctccccgc 3723576
attttaaccg gatccccccc attttaacca ggtcgcccca cattttaacc 3723526
aggctctcca acatttgaac tagatacccg ccgcatttta accagatccc 3723476
gtgatgaggt gtgggtcccg gttcgggaag taccagtgtg gagcagggtgt 3723426
tggcaggcac gttccacgag ggccagacag gagctggtcc cagcgtttcg 3723376
ggcccgggtgt ctttcgtagc cactaacct gccgggtgag gaagcagcac 3723326
tgccctgctg ccctctgagc acacagggcc gggccccatg agctgcgtag 3723276
acactgaaat ttgagtttca tcttcacgtc tcatgagatc atcctttttg 3723226
aaatctttcc tcaactgttt gaaagtgtaa aaaccactct taggctacac 3723176
agaggtaggc agtgagctgg atctggctcg agggctcttt gctgatccct 3723126
gacctgtagc aaggtttggc tgtgttcagt gtgttcagggt gtacgtgcaa 3723076
ggttcactct cttgtgtcct ccttaggggg tgggctgggg agggcggcag 3723026
ctgccagaga aggccttcag cccctgcaga gccacagtgt ggggcatcgt 3722976
ggggcccctg cactgggctt caactcagag cagacgctgg gggagggcga 3722926
ggcgggagtg ggctctggat tcatcgtgtc cgccccacc tcccagccag 3722876
ggcctgcctg gggaggggtca gtgctgcatg atggcgtgtt ctctcacc 3722826
ccagAAACCG TCCATGTTTG ATGTGAGCCG GGAGCTGGGC TCCAGCGTTG 3722776
CACTGTACAG CCGCAAAGTC CTCATCCAGA CCAAGGCCAC GGACATCCTG 3722726
CCCAAGTGGC TGCGCTTCAT CCGAGgtacg ctgctcagag tccgtgagca 3722676
gtgccccctg ggcccagtg cgcccgtgc atctgtgagg gaccgtgctg 3722626

attccattct cagcagccct ctgcagcgag agcaccgccg tcggcctgcg 3722576
ctgcctgtgt gtcagtcgcg tttacagacc ccgggagctg cccacacctcc 3722526
ctacgcacat gactgatctg gggggagcac tgggggtgttc agattgaggt 3722476
ctttccatat gtagggatac tgagtttcag attgatattgt gagttgtgtt 3722426
acgtttgagt gagattatag ttttaagaaag acttcagtat ttaagccttg 3722376
gtacacagag gtgcgaacca tccctgatag agttttgttt gtttgttttt 3722326
tgagacgagt cttgctctgt caccaggct ggagtgcggt ggtgcaatcg 3722276
tggctcactg caacctcctt aagtgattct cctgccttag cctcccagat 3722226
agctgggatt acaggcgccc gccaccacac ccggctaatt tttgtatttt 3722176
tagtagagat ggggtttcac cataattgcc gggctggtct cgaactcctg 3722126
acctcatgat ccgcccacct cggcctccca aagcgctggg attacaggcg 3722076
tcagacactg tgcccagcca gagttgtgat ttttaacata aagcccaggc 3722026
tgtcattttc cgagtgttac ccgaggctg tcccggccac ccacagccca 3721976
ggtcactgtt ctgggagggtg gcaggacgta gaggaagctc cggcagtgcc 3721926
gcctccctgc ttccctctta gcacacgtgc tgggttgaag gccaggcctg 3721876
aagacaaagg gcaggttaat ggggaatgtt ggggtggtgtg gagggccgca 3721826
gccccgggag aagctgactg ccgtgtctcc cagGTGTGGT GGACAGTGAG 3721776
GACATTCCCC TGAACCTCAG CCGGGAGCTG CTGCAGGAGA GCGCACTCAT 3721726
CAGgtgagcc tcgggccgcg gggagaggac cctgctgggg acaaggcccc 3721676
tacctgctcc ttgccccca gagggcccta gccgtggccc atggagctga 3721626
gagcagaggt ggtcggggaa gcccggcctg cacatggggg ccctcaggag 3721576
ccttccaggt gctggcctgg cctctgaagc ttgtgttcca gaagaagggtg 3721526
gggggtggctg gtcattggctg aggctggagt ctggataggg ggagggggccg 3721476
cagagccaga cctgcccacc tgtgccccag ggttgtgact gcagccctgc 3721426
agcaggccag ccctgtgttg aggggactcc agtgtgctgg ctccaggttc 3721376
tccatcagta gctatcactt cccactctg gcccaggct caccaaatag 3721326
tctttattca aaacctcgct tactggcttt tttccccta atgcaagtag 3721276
tatttcctta ctagagcaca ttcaagtgc ctgtgctctc acctagagat 3721226

gactgctgtt gatggtttag ggtggggttag attggcagcc acatagggca 3721176
ggtttcagag ggagcctgtg gggtaggat tcagctggaa tttggagccc 3721126
tggaggtctc tcaagagccc accacgtgca gcatgccatg gaacgggcct 3721076
tggttgagcc cccaacgtgc ctgcagtgtt tctctgccc aagggtttctc 3721026
tccagtgttg aaatggaagc agatcctcgg aaaaaggatg agtctgggta 3720976
attggtgtgt gttggggctg cgctgtgggc atggcgagag gcccacaccg 3720926
agaggcactg gtcctcagag attctgtcct gtgccgcggg caggagcagg 3720876
tctggggaga tggtaggcag tgtggtttcc tgcctgggtg gtccatgccc 3720826
agccctgcga ggtcacatgg cctgccgggtg atatcctcct gcctcacctt 3720776
cagaggcaga aagccatgga gatTTTTTt ttttttcaac caagcaagcc 3720726
gcagtgatgt tttattggtt gactgatagg gtctttcttg ttgtccagggt 3720676
tggaatgcag tgggtgtgatc acagctcact gcagcctcaa cctcttgggc 3720626
tcaagcaatc cttccacctc agcctcccaa gtagctggga ctacaagtgt 3720576
gagctaccat gcctggctaa tttttttgta tttttttgta gaggtaggat 3720526
ctcactatgt tgcccaggct gatcttgaac tcctgggctc aagcgatcct 3720476
ttggcctcag cctcccaaag tgctgggatt ccaggcatga gccactgcac 3720426
ctggccactt agatTTTTTt tttttttttt tttttttttt ttgagacgga 3720376
gtcttgctct gtcgccagg ctggagtga gtggcgagc ctcggctcac 3720326
tgcaaccttc gcctcctagg ttcacgcat tctcctgtct cagcctcccg 3720276
tctcagctgg gactacagg gcctgccacc atgcccggct gatTTTTt 3720226
atcttttagta gagacagggt ttcaccgtgt tagccaggat ggtctcgatc 3720176
tcctgacttc gtgatccgcc tgccctggcc tcccaaagt ctgggattac 3720126
gggtttgagc cactgcgccc ggcctgtttt tgTTTTtcat gcaattgaat 3720076
tcatattgct tatactgttt ctttttttct acctagttaa tttgcaccac 3720026
ttcccatgtt gtttttttga agcactttta attgctacat catgggacat 3719976
cacagggatg taccatagtt tactgatccc gtccctcggg gctgcacagc 3719926
tgggctgtct cagtgtttct gcagttatga cactgcagt catgtttatc 3719876
ttgtttctga aatctTTTTt tttttttttt tttttttttt ttgagacgga 3719826

gtcttgggtct gttgcccagg ctggagtga gtggcacgat ctcggctcac 3719776
tgcaagctcc gcctcccggg ttcatgccat tctcctgtct cagcctcccg 3719726
agtagctggg atacaggcac ccaccaccac gcccagctaa ttttttgtat 3719676
atntagtaga gacaggggtt cactgtgtta gccgggatgg tcttgatctc 3719626
ctgaccttgt gatctgcctg cctcggcctc ccaaagttct gggattacag 3719576
gtgtgagcca ccgcgcctgg cctgttctga aatctttacc tgcagctgta 3719526
tttccttagg atagaatact aggggtgggg ttacttggc ggaagatata 3719476
actatataaa aggtattttc cttgctgact aaagagatgt tatataatca 3719426
atgaaaaggg ggccctcagt cttgtttccc cacacagccg tgctggcttc 3719376
tgacagcagg accccgactt gctgccgaca tgaccacagg gcagcagttg 3719326
tgctgacctc aacaggatgc atccccgcc cacagcagcg actgttctgt 3719276
ggtcgttaga gtcgtgctct ttggtgtact gaccctgtgc acttcgagt 3719226
cgcctgtggg ttactgggtga tctgccaat gtttcagttc acttcagtga 3719176
agagagggct tggggctgac tcccggatta ttattgctgg tgctggagtt 3719126
gtccccacct tgtccatccc catcacctg cccaggagtg gccacaggag 3719076
gggaggttcc aggtacaatg tccctgggct ggataaggca aaggacaccc 3719026
actgaactga ggacacgtct ggccctcatc gggaagctca cggatgaagt 3718976
ggaggcaggg gccaggccct gtggagaggg agctcctggc gtccctgcgg 3718926
gccgaggcgg ctgcgttcct ctccccatcc tgaatgtgtt tcctgagtat 3718876
ttcttctcca ctgagaactg tgctgagcct gcataaacac gtgtttcatc 3718826
ctgtgagggg agccgtgagt ctcactcat agttgtggaa actgagtcac 3718776
agaggggtgg tcctgctcag taaggagct gcattcctgg ctgtggcagg 3718726
catgctggcc cactggtagt gcccgaagct gcagagcagg ggtcctcatc 3718676
ccagcttgtg gttgtcaaag gttgcgttgt cagtctgaga actcatctcg 3718626
atcagaaaag agtcagccga aattagagct tttgaaagaa tcacaggctt 3718576
aaaagttgga agcatggtac caagaacatg ttttcctcg aatcctgtga 3718526
gaggaagttg ctttctcgat gcctttgggg tgcatttcca acaaacaagg 3718476
atgtccttcc ctttgaatt aacagatgtt ataggtattt tgaagctatg 3718426

taaatgtcac attcttcatg aaactctcaa tacattcatt tatttactta 3718376
aaatatttat gtgttggccg ggcgcggtgg ctcacgcctg taatcccagc 3718326
actttgggag gccgaggcag gcagatcacc tgaggtcagg agttcgagac 3718276
cagcctagcc aacatggtaa aaccccgctc ctacttaaaa aatagaaaaa 3718226
ttaggctggg cgcaatggct cactcctgta atcccagcac tttgggaggc 3718176
cgaggcgggt ggatcacgag gtcaggagtt accagcctgc caagatggtg 3718126
aaaccccatc tctactaaaa acacaaaatt ttagccagtc gtggtggcag 3718076
gcagggtgtaa tcccagccac tcgggaggct gaggcagaga attgcttgaa 3718026
cctgggagggt ggagattgca gtgcgccaaa atcacgccac tgactccag 3717976
cctgggcgac agagcgagac tcatctcaaa aaaaaaaaaa aaaaaaaaaat 3717926
cagccgggta tgggtggcagg tgcctgtaat cccagctact tgggaggctg 3717876
aggcaggaga attgcttgaa cccgggaggc agaggttgca gtgagccgag 3717826
atcacgccac tgactccag cctgggggac aagagcaaga ttcgtcggat 3717776
ggaaaaaaaa aaaaaaattg atgtgttata tttatactat ttataattta 3717726
tttatatggg ctgatttcct gttttattca agagtttata atcttgctat 3717676
cattaataaa atttttttat tttttttat ttattttatt atttattttt 3717626
gagatggagt cttactctgt tgctcaggct ggagtgcagt ggcgaggat 3717576
tggctcaccg aaacctctgc ctcccgatt caagcgattc tcctgcctca 3717526
gcctttcaag tagctgggac tacagtcacc caccaccatg ccctggtaat 3717476
tttttgatt tttagtagag acgggggctt accatgttga ccaggctggt 3717426
ctcaaactcc tgacctctgg tgatccgcc gcctcagcct cccaaagtgg 3717376
tgcgattaca ggcaggagcc accatgcccc gttgattatt cttagcacgg 3717326
ttaccattt gaccaatccc cctccatgta accaatctac cattgccact 3717276
gccctcttct gcgggtgtcc ctgtcaccta cttgggctct gactcttcac 3717226
ggtgggctgg tcacgcccc agcctggaca cccttctctg gggttcttgg 3717176
gctctgacac cataaccagg ctcttcccaa ccatggccct gcatagacac 3717126
ctccctggg ctctgcaccg catcctgggc tactgtcccc ccgctcccag 3717076
gcacgaaggc atgtcctgtc ccattctgcc ctgtggctga aggactgagt 3717026

cactggggat ggagtgtggg aggaaaggct ctaaataaac tcgagagagt 3716976
 gttgttccca tgctctggat tattgaaata cattgtaatt tacctgctta 3716926
 aaggaaagac taaatattaa gaagaaaata aaaatatccc tagtcccagt 3716876
 gataaagttg ttcctaattt taggccatta tgtaatgctg cagtaaatat 3716826
 cctgatccct aaaatcccaa ttttgaaaaa ttagagtata catatattca 3716776
 gtataaatcc caaattacag tgtacatata tagtatatac agtgctgctc 3716726
 ctaatgatgg aaaattgtta tgtacatgta gaatgtgcat tctttgcctg 3716676
 tatctataga cgtactgtaa tttaccaca ttgggatttt tctgggtttt 3716626
 ctttcaacac agctaacttt ctcatgtcat tgaggattat taaaagatgc 3716576
 agtttttttt ttttatggcc atttagcatt acataatttt agcctatatt 3716526
 cttgaacatg aggttgttca taattgttat attttatgtg ccacagtga 3716476
 aatcctggta cataaatctt ggtgtgctca catgtttcct aagggtgcagt 3716426
 tcctataatt ggaacaactg gctcaaagggt tgggaagggtt ttccgggcgt 3716376
 gggatatcttg tctctggggg catcggttct cctactgcct ccaggggggtg 3716326
 tctgccctcc accctgctgc ctctgtccg gccactgccc agggtttctg 3716276
 tctttctgct cagtcttttt cagtttggcc aataacggta ccttgttgtt 3716226
 ttcacttctt tgattcttag cggggctgaa cttttttcg taccctctgg 3716176
 ccatttgtat ttcataagag ctgcttgtat gtattaaatg catttctttt 3716126
 ctgtagGAAA CTCCGGGACG TTTTACAGCA GAGGCTGATC AAATTCCTCA 3716076
 TTGACCAGAG TAAAAAAGAT GCTGAGAAGT ATGCAAAGTT TTTTGAAGAT 3716026 [Y444N](#)
 TACGGCCTGT TCATGCGGGA GGGCATTGTG ACCGCCACCG AGCAGGAGGT 3715976
 CAAGgtatag gagctgtgtt ccaggccttt ttctgggcca ccttgtccct 3715926
 ggggctgctg aggaagctgg tggagggtgc ccctgatgtg gcgacggtgc 3715876
 agctgggtac cctggctgct gctgctgctg ccaccagggt caggaaatgg 3715826
 aaggccaggc ttctgggcct ctggcacctt ccaggcacat cttaccctc 3715776
 ccaccagtgc tgtgctgtgc tctgaagggc tcagcctcac tgctgtgtga 3715726
 aggtgcagcc cagggagtgg caggaagagg gcgtgcacac actgtctccc 3715676
 ctgagaggat gttgggggct ggggagccac agacagggtg gacaagccaa 3715626

ggactccgat cccgtgggtg gggaagtggg tggctctcagt gtctgttgag 3715576
ggactattca tcatgtactg gatatcagtc tccaaatact atgctacagg 3715526
ggccagtcgt tcagttaatc caatagtggg tggctgaaaa acgaaacatt 3715476
tgttccataa acattttttg tccatttttt attgagatac aacttacata 3715426
gcatcagatt cacagaattc accttttaac acgtaaaatt cagtggcatt 3715376
tagtgcatc acagtgtggt gtggctgcct ccactgtaac cccagaacat 3715326
ttcatcccag gagcccatcc cgtgctggtg tcccttctcc ccagcagcag 3715276
gaggaggggtg accacgtgtg tgggggccca aggaggccgt gttctggttg 3715226
tttgccgact tcggcagctt ctgacacagg cctcttcatt ctccctttatc 3715176
ttcatttgag ttaacagcac acaggtaaga gtcagagaca tttctaggtc 3715126
tttgtaggtg tgcacgtgtg acatgtctta tcaatgcaga cccaccatgt 3715076
gtgcaggggt ggccctgggcc ctgctggttg ggtgtccagc tccttgcttt 3715026
tccctctttc tgttttccc ctgctgcctt ccagctgcag ctcccatgag 3714976
ctctagagggt cacagctgcg ttcagctgat ggggaggagg gcaaaccct 3714926
cccctaaggg cccttctcca aatcccactg aaaccactg ggcaaagcca 3714876
gtctctgcc tagccagctg tgaggagggc cggaaccgt ggacttcacc 3714826
cgtgtccgtg tgcccaccag agactgactc tgtcactgag ggcagaggga 3714776
agacgctggg tccaggccgg gctctgctgt tgggtgggggt cccctcccag 3714726
ggcgtggtgc gcgtagctcc ctggagagcc cctgggccac ctggggcagg 3714676
agggtgcttc taagcccca gagctccaa aaggggcctg atgggcagag 3714626
caaggcctgc tctcggacaa cccccagtc cactaccgtc cctcgggtca 3714576
gggccagcct ggagtgccag gaggccatgg gcatcggagg gtttgcgccc 3714526
agttagttgg gcaacattga gcccatgggc ctggaataag tggtgacctg 3714476
ccccgtccct tctagGAGGA CATAGCAAAG CTGCTGCGCT ACGAGTCCTC 3714426
GGCGCTGCCC TCCGGGCAGC TAACCAGCCT CTCAGAATAC GCCAGCCGCA 3714376
TGCGGGCCGG CACCCGCAAC ATCTACTACC TGTGCGCCCC CAACCGTCAC 3714326
CTGGCAGAGC ACTCACCTA CTATGAGGCC ATGAAGAAGA AAGACACAGA 3714276
Ggtgggtgag cgggtgggtg ggcgggctcc gggggctgca acctggggag 3714226

ggctcttgacc ttctcagctc tgtgctgggt gaacctgccc aagactccgg 3714176
gcagggctgc acagtgggtc agggtcacgg gcacagaggc cggaccgact 3714126
gtgacggctg tttcccactt ggaggtcaca tgtggttttt tttgtttgtt 3714076
ttttgttttt ttgagatgga gtcttgctct ctcgcccagg ctagagtgca 3714026
gtgggtgcgat ctcggctcac tgcaacttcc gcctcctggg ttcaggtcatt 3713976
tctcctgcct cagcctcctg agtagctggg actacagggtg cacaccacca 3713926
caccagcaa atttttgtat ttttaataga gacggcattt caccatgttg 3713876
gtctcgaact cctgacctca tgatctgcct gctttggcct cccaaagtgc 3713826
tgggattaca ggcgtgagcc actgcactca gccacatgtg gatttcttta 3713776
tgcgtggagt gcttctgcct tgaaggcagt cagagccttc cttagacca 3713726
gggtgtcgtag taactgtcat gcaggcctag gaacccaac tgccccggtg 3713676
ttccccagtg tggcccgtt ggctcccca gccctcctgc cgccctcatc 3713626
ctttcttctg tgggtggctgg agggccccgg ggtctgatgg agctgctctt 3713576
ggccacctgc agGTTCTCTT CTGCTTTGAG CAGTTTGATG AGCTCACCTT 3713526
GCTGCACCTT CGTGAGTTTG ACAAGAAGAA GCTGATCTCT GTGGAGACGG 3713476
ACATAGTCGT GGATCACTAC AAGGAGGAGA AGTTTGAGGA CAGGTCCCCA 3713426
Ggtcggcatc ccctgctctc taggcgtggg gctggtttcc actccccgca 3713376
cgctctcct gccccgcagc gagggccttc tttgggtttt cgtcagttga 3713326
cctgggctca gccacccccg agaagagcct tgtgggagca ccctggtgac 3713276
tggaggaagg tgcctcctgg tttagatata aggggtctgt ccagtgtctc 3713226
tgccacgggtg gcttctggag ctggcccagc ttcttgagag gctgtgtatt 3713176
tttttaaagc cctaaccaag ttgtatgggc ctcaggcaac ctgaagcatc 3713126
ctttgagggtt ttacttttag atgaaaagca tcttgctagc ttgtgtctcc 3713076
atcctggtgg gagaggagggt gggagctgga agcatgtctg gtggcccca 3713026
tggaagccgg ggagttggga tgcaggcctg agctccctgt cgctgctct 3712976
tccgcagCCG CCGAGTGCCT ATCAGAGAAG GAGACGGAGG AGCTCATGGC 3712926
CTGGATGAGA AATGTGCTGG GGTCGCGTGT CACCAACGTG AAGgtgaggc 3712876
tttcccgggg atggaccacc acttgccgc agtgtcccta acaggctggc 3712826

cagctggtgg ctcccagtac ctggcccgtt ggggtgtcctt ccagcagcag 3712776
cagaagccct tgggtgtcagg tggagaccct gtgggtccct gctcggcacg 3712726
tgttgctcgg gagtgccgct gaggcaggaa ggccgtgtct ttctcccagc 3712676
cctgctccag agcagggtgtg aactgagaac tgaaaaacca gcatcctgag 3712626
tgaggagctgc aatggctgag gacgtggggg ttccaaacaa gggacatgct 3712576
acccagccc tcaggagctc acatgctcac ttgggtgctt agtcgggggt 3712526
tttgggtggg cttcagagag ctaagactcc cccaccaaac ctgtctagct 3712476
cagagtgaga aatgagcgtc ccatgcatgg tcaattggag gaaggggcct 3712426
catgcagggt gggctggcat ggagcagagg acgatggatt cgggcagctc 3712376
ctggaggcag cagcggggca ccagggtggg ggagcccctc gggcacagta 3712326
tctttgctg gggcatcagc tcagggccca caagttagtg ggtaatgggg 3712276
agggagcagc gctggtccag gggagtcctt gagacccgc ctgctacctc 3712226
gtggtctggg tgacctcac ccctggttaag atcctgccag ccctctcaca 3712176
ttgggaacct ctatcacct caaccccggt ctttgctcac agGTGACCCT 3712126
CCGACTGGAC ACCCACCCTG CCATGGTCAC CGTGCTGGAG ATGGGGGCTG 3712076
CCCGCCACTT CCTGCGCATG CAGCAGCTGG CCAAGACCCA GGAGGAGCGC 3712026
GCACAGCTCC TGCAGCCCAC GCTGGAGATC AACCCAGgt gaggccacgc 3711976
tcctggctct tccagcctgt gggattcccc agaatcctgt gtgtggtgtt 3711926
cttttgttgt ggaatgtgac acagaagaaa agtgcgtgag gcctgtggac 3711876
atgtgggtaa ctataaggag ctgtatgcag tttaggctgc acccatgtga 3711826
aatggaacct ggccagcccc ttaccatccc cagggtgtcac ctgggaggtt 3711776
agccacatcc cagcctgtga ccatgtcctc gttttgcttt atggctttgc 3711726
cacctgtgcg tgtcctggac atgctcagtt ttgcctgttt tgagctttgt 3711676
acgtggatct tgggtgtttgc tgaagtctca cgttgctcac ttggcatgag 3711626
ggttgcccat gcagaggggc tgccacaagt tcattttcat agccgaataa 3711576
tgtccgctgc agaaaccac ctcggcacag cagactgctc cgttctgctc 3711526
tgctgggcct ccggtggttc ttggtcagaa gttgtggaga gccaggctgc 3711476
tctgagtatt cttgtccacg tgtctggggc ttgtgtgggt ttctctgtgg 3711426

ccccggtggt gggagctgct tccaggggtgc accgagaacc ccccagccct 3711376
gacagtggct gagccgtaag atttccctcg tttcttcctg ttgttcttta 3711326
tatgcccttt atctgttgta aatgtctttt cacctgcctt taggtatctt 3711276
ttgagtttct ttctttttac agtatcactt ctttgcaccc atgaatgtga 3711226
tctatttagg tctttaacat cttttggtac cttacattct ctgtaggggtt 3711176
ctggtacat ttttaaagaa ttattctttg atgtgtctta tgggggtattt 3711126
taaaatttca ttttctaact tgtatatgaa ctaacttgta tatgaagttt 3711076
cttttttggg ggaaattttg aatgtagcaa ttttttaaaa aatgaagtta 3711026
cataaacatg ttacaaaaa tagaaaacag caaaaaggaa atcaaaatcc 3710976
atagacttac ccccccccc acaatgtagc ctaagtagta ttttaatttt 3710926
tgagacaggg tctcactctg tccccagggt tggagtgtag tgggggcaatc 3710876
tcagctcact gcaacttcta cctcctggcc tcaaacaatc cacctgcctt 3710826
agcctcccga agtgctggga ttacaagtggt gggctaccac ccccagccag 3710776
tttttgtttt gttcttttagt acatgtctag tttttttctt ttgtcatttt 3710726
acaaccataa cttttaaaat tatactggag gcgagggaga tgcattctcc 3710676
tagccatggc actcctgggg aaaggctgac ttggccttatg gctgtcagt 3710626
cacagcagcg ccagtatgca gaatgcctgt gcctctgctg gagcagctca 3710576
gtgaggcgga caccaggtca ctttaactag ttttggtggc aaactagttt 3710526
tgtgagatag ctgcagaagt gctcgtttct gtctgttgcc acttcacttt 3710476
tgagacagg gtcttgctct gtcacctagg ctggagtgtta ccagtggcgc 3710426
catcagagct cactgcagcc ttggcctccc aaagtgggtg gattacaggc 3710376
gagagccact gtgccagcc agcttcactt tcatttgttt taaaatttgg 3710326
tgttctgtcc acatagttca gaattcaaaa ctgcttacag gggaaaattt 3710276
cctcctacct gtgtccccag tgcagccagc attagggctt ttgtatttct 3710226
gcagagatta tgtgcatttg tgggcagctg cgcccgtggg cttccaaggg 3710176
ggaacttgct gtgcagtggg tccttgccctt gcttttctcc cttagggtaa 3710126
ctaggtgacc tccacattag catattaaga atgtcctttt tttccagcta 3710076
cgtagactag aaatgtgagg atgtgcattt gaagtgtttc ctctgttagg 3710026

ttgggtgcgg tgcctcacgc ctgtaatccc aacatttttg gaggcctagg 3709976
cgggtggatc acttgaggtc aggagttcga gacctcatct ctactaaaaa 3709926
tacaaaaact agctgggggt ggtggtgggt gcctgtaatc ccagttactt 3709876
gggaggctga ggcaagagaa cctcttgaaa ccaggaggct gcggtgagcc 3709826
aagatcatgc ctttcactc tagcttgggt gaaggagtga gagtctatct 3709776
atctatctat ctatctatct atctaaaaaa aaaagtgttt aaagggatgc 3709726
agttaggaaa tggaatggct gagtctcagc atatcatcca catgtggttt 3709676
tcccgaactc agttgtcctc tggagagggt gtacaaattt acagttcccc 3709626
agagccctcg gttttatcag acttctaagt gaaaaattat aatattcatg 3709576
ttaaggttaa atactacatg atgctttttc ctatgcagaa aaaaatattg 3709526
ttctgacgtc aaatatgtca atcattcttt actttttgggt ttgtgggttt 3709476
gcttggaag gctttcccct tctgagatga tgaaacattt cttccctaga 3709426
attgtgcttg tcatctttga tccctctgga atttactctg gtctaaatgg 3709376
ttttctgcat ggctcccagt catcccagt ctgctggatg gagtgatctg 3709326
tctcctccct cttctgtgaa atactgtcct catcagacac tcagtgtcca 3709276
ccctcgttac atggagttgt ttgccttccc cctttccaga cctaaactgt 3709226
tttatttact agagccctat aatatgtttc aacatgtggg tcttactccc 3709176
ttctctttta ttatttatct aggaaccaag gcatgtcttc acgtactaag 3709126
ctccttttgt cccttttagt tatattaatc ttggagtttg gctaccttac 3709076
agcattttct aatactgaca ctcctgattc tcttgggttt tctgggtata 3709026
taatgatatt atctataaat gatcattaac ataccttatt taaaaaacta 3708976
cagacagtct tactgtgctt ctttaaatat cctgataatc ccaaaacatg 3708926
aagggagggt cacagcacgt ggtactgagc tgctttttct ggtgggttct 3708876
gtgttgcag **CACGCGCTCA** **TCAAGAAGCT** **GAATCAGCTG** **CGCGCAAGCG** 3708826
AGCCTGGCCT **GGCTCAGCTG** **CTGGTGGATC** **AG**gtgagtgc agcagcttag 3708776
gatgactgca gggaccaggt ctaccagccc tgccagcctg cttcaggggt 3708726
ggaacagcgg tttcctctaa aatcctgtct ttttgtttgt ttgtttgttt 3708676
tttgagatgg agtggtgctc tgttgccagg ctggagtgc gtggcgcat 3708626

cttggctcac tacaacctct gcctcccggt ttcaagcaat tcccctgcct 3708576
cagcctcccc agtagctggg actacaggca tgcgcctggc taattttgta 3708526
ttttagtaga gatgggggtt tcaccatctt ggccaggatg gtctcaatct 3708476
cctgacctcg tgagccaccg tgcccagcca aattctgttt taaaaacgga 3708426
aaaatggcca ggcgtggtgg ctcacgcctg taatcccagc actttgggag 3708376
gcgggggggat cacctgaggt tgcagtgagc cgagatcgtg cctctgcact 3708326
ccagcctcgg caacagttag actctgtctc aaaaaaaaaa aaatgaaaag 3708276
gtgccccatg cccctcataa tgggtttctc ctcttgcctt tcagATATAC 3708226
GAGAACGCCA TGATTGCTGC TGGACTTGTT GACGACCCTA GGGCCATGGT 3708176
GGGCCGCTTG AATGAGCTGC TTGTCAAGGC CCTGGAGCGA CACTGACAGC 3708126
CAGGGGGCCA GAAGGACTGA CACCACAGAT GACAGCCCCA CCTCCTTGAG 3708076
CTTTATTTAC CTAAATTTAA AGGTATTTCT TAACCCGagt gtgtgttggg 3708026
ctttttttct gggtcctgtg gcaggatggg tcctctcttc ctgcagttca 3707976
actggtgtgg ggaggggctg ctcacttcag catcacctcc actggatagt 3707926
ggtcactgat ggcttgggcc tgcaggcaag tgggcacagg gtctgggctg 3707876
agcctacctg agctcctgtg tcccatcctc atgtggctgt gcaagggagg 3707826
acacatacca gttggtcact caggccatag gcagcctgga agttaaaggg 3707776
aagagccgag tcgggaacaa cggcgcctcg gagcagcatc cctgcaacca 3707726
cgatcctgat ggggtgttggg aagagaaagt aggttcccct ttcacacatg 3707676
ggcctggctc agcaccgca ggaactaaac taagagccct gggacctgcc 3707626
agtgcaggtc tgtgggtgcc caaaactgca caccctggtc tgtgcccctc 3707576
aatgtgaaa ccacatgaca gcctaggtgt ctgcctctcc tcttatcccc 3707526
agatgtgctt ttccgaaaaa acctaaaaat cgtggctctt gttattctgt 3707476
tccctgtagt ggatcaactg aagctcagtt gggtgagtgt tcaaaggctt 3707426
tgaggcttct gaagcccgac ctatgagtca cggctgccct tggagggtgc 3707376
ctcagtctgc cctaagcgcg aggccctgct cacctgtcat aggcacagtg 3707326
cgtgggtgta gctgtggtgt cagcgtgtc ggggatcagc cactggaagg 3707276
tggggcttgt ccacaggcgg atggatgacc actgggaggg tctcacatag 3707226

ctgcagcccg cattgaagtc gcccatcaac atgacgtcct accaggaaac 3707176
gctgcctgtg gccctgggac atgcggaggc cgctggtgcc cactgcccct 3707126
gggagggcct cacctccaag cccatttct cttggacatc caggtagacg 3707076
tcatagagag cgtcgatctc ggctactgcg tcccccg

TRAP1 (NC_000016.9, GRCH37) - gDNA - 2024-05-16

