tgagcatctt ttcatatgca tatacatatg gtgaggtgta tgttcagagc 3067543
ttttgcccgc ctttaatcaa gttgtacatt ttcatattgt tgcattttaa 3067593
gagggttttt tttggtatat tttgggtcac agtgctttat cagatatgtc 3067643
ttttgcaaat attttctccc agtctgtggc tcgtgttgtg aacgtggcta 3067693
gttctcttga catacatatc ttttcacagt atgtaatcct gttgtgcttt 3067743
ttttttttt cctttgaga cggaatcttg ctcttgtcac ccaggctgga 3067793
gtgcagtggc gcgatctcgg ctcactacaa tctccacctc ccaggttcaa 3067843
gggattctcc tgcctcagcc tcccgagtag ctgggattgc tggtgcccgc 3067893
caccacgccc agttgatttt tgtatttttt agtagagatg gggtttcacc 3067943
atgttggcca ggctggtctc gaactgctga cctcaagtga tccgcccgcc 3067993
ttggcttccc aaagtgctgg gattacaggc gtgaacaacc gcgcccggcc 3068043
tgatgtgcat ataattttat tatttgattt ttaatataca tgaatagcat 3068093
gcagttccaa ctttgctcga gacttcacaa ttaccatttt aaagggctgc 3068143
aaaataatca catttcctcc tcaacagccc cactttacag atgaaggtag 3068193
aggaatgcta acttgcctat gctaacccgc agagctctga atcctccgga 3068243
tagcgccccc gctgtaatcc acccagtgct tccctccaga cccttctccc 3068293
tctcgtgcgc gcggaggttt cggtttcctc ttttacgtag gccgccccac 3068343
tcgcttgaaa acaaagtccg cgatcctcta gcccgcaaga gagctccggg 3068393
actcagaccc cgggcgcgag gtcccacgag cggcggggcg gcgctctcgc 3068443
ggtcctcctc cccggcaagg gccggggcag ggggaggagg cagcgcgaac 3068493
AGTCCACGCC CTCCAGCCGG GCGCGCTCGA CGCGGACGGC GGGCCAGCTG 3068543
CCGGAGCGCG GCGACTCCAG GGGACCCACA GCTGGGGCGC CAGAGCGCGG 3068593
CCATCCGGGC GGGGCCGACG GAGCGCGGCA GGACTTGGCT GGACGGCGCG 3068643
GCCACGGAGA AGGGCGCGgt gagcggactg gcaccgcgcg gggaacattc 3068693
cggaggccgc cgggctcagt cccggtgacc cccctggtcg gggttcgcgc 3068743
gccctccccc agcacgcccg ggcaaggctg ccgcggcgtc ggagtaatcc 3068793
ccaaccctcc gccgccgctt cttccctcac ccgggcctcc agacgtttgc 3068843
cgcggaaacg aaagtaacgc tcgggtgctt gcgtggaggc cggggcggcc 3068893
gcgggcttcc cggaaggaga gggactctgc ccggggtgcg cgcggcgggc 3068943
gggccccgcc ggtaccggaa gtcgggcggt gggcggggcc gcgggcgctc 3068993
ccggaagtca ggggtgctcc gctaggtgtc tctgcttatc cggagtccgc 3069043
tggccgcctc tgtgccagag gtcggggcgc tggactggta gcgggcggag 3069093
acctgccttt gggccgcggt taccgcgtga gggtggaata ggcagtccca 3069143
cacgccatta atgttgtttt ggtggagaag gtgggctcct agtgccctat 3069193
cattaagaaa aaacagtttg ggctcttccc ttaccagccc tttgaaaggg 3069243
ccttttactg ttgcgcttga ggccgcagca ggttccaaaa acaaaagcat 3069293
ttctgcgtga tcttagacga ctgaggggac gaatgtggta accctagcag 3069343
gcttctgtca ctggcaggtg cttttgtgaa gtgctgcgga ccctcttgag 3069393
ggttgggaag aggataggct gcatcctcct tccctaagca tttgacaaag 3069443
cctcacaggg atgcgggggt tgcgggggca gggggaggtc tggggttgtt 3069493

agttctttct ctcttgctga ccatttggct ctcccttaat cagagctctt 3069543

ttttattttg ggcaaagcag gaggctgttc caatgattaa ttcttccctg 3069593

acttacactt gaagaagcca aggcaggaag tgaactttga aatgtgcaat 3069643

gtcttagtac tcatctgcat tctgtgactg ctaggaagat ggactgagtc 3069693

aagaggaaat tgtcttgtta gaaatgtgga atactgcgtc gggcacggtg 3069743

gctcactcct gtaatccgag cacttcggag gccgaggtgg gaggatcacc 3069793

tgaggtcagg agttcgagac cagcctggcc aacatggcaa aaccctgtct 3069843

ctactaaaaa tacaaaaatt agccaggtgt ggtggcgggt ccctgtaatc 3069893

ccagctacgc gggaggctga ggcaggagaa tggcttgaac ccaggaggcg 3069943

gtagttgcag tgagccgaga ttgccactta cactctatcc tgggcgacag 3069993

agggagactc tgtatcaaaa aaaaaaataa ataaagaaat ggggaatact 3070043

gcagctcttc tattcacaaa aagtgaagac taggcttgtt taaaatgaaa 3070093

tttggagtgt atcattatta ctgataaaat agcaaaaatg ataacttta 3070143

atactcattt tcctctgtct gaactatact gagcctcaga gatatgttgt 3070193

actttctgga atgtgaatat taatgagtat taagaaaagc tcttaaacag 3070243

cctctttcaa actgggcagc ttacttttg gtgcttatta atctataacg 3070293

tgttaacatc catatgatct gggaatttga agaaaatact taatttccca 3070343

tgctttagtt ggatattaca ttctggcaaa aaaggttgac tgtattaatc 3070393

tgtagaacat tgattttgaa ccatatattt caaaaataca tgagccgtgt 3070443

atttttattt ttgagacaga gtcttgctct gtcacccagg ctggagtgca 3070493

gtggcgcgat cgcggcttaa tgtaaccttc gcctcccggg ttcaagcagt 3070543

tctcctgcct cagcctccca agaagctggg attgtaggca tgcactacca 3070593

tgcctggcta atttttgtat ttttagtaga gacagggctt caccacgttg 3070643

gccaatctgg tctcaaactc ttggcaatct gccctccttg gcctcccaaa 3070693

gtgctgggat tacaggcatg agcccctgca cctcaccttc ctgtatttaa 3070743

aaagtttatt ctgtactttc tccgtgtttc tgactgtcgc acatttattt 3070793

aatatagatg agtaaggctg taagggtggg tctttgcatc tggatttttc 3070843

cgaagacaga ttatttgcta tctagagaag tagcatgtat tagtgagcca 3070893

atagtgaaag tttgaatgaa gggacaaata tttcattcca ggatcctacc 3070943

actttaggtg aatcacttag ctccaaatct tagtttcttt atttgcaaat 3070993

tgaaatcatg ataaaatttg cttcaggggt tatgatgctt gtttaaactc 3071043

tgtttcaatt cttgtctctt gctggtcctt aagtctcttc cttgctcaga 3071093

gcttttgttt atccaggcaa agcatcaggc tgctgtaatc aaggaagttg 3071143

gagaaatcct ctggtcactt ggatagctga gcaaaatcag aattctgtta 3071193

gtgggaagaa agggggcaat ggcaggtggg caaccagcat tttctgccat 3071243

tctcttgtta tgtgtggtca tcatagaaaa atggggaaaa agttaattag 3071293

aatattttga tatgtatact taccctgcct tagaaggtaa tcgtgaaatt 3071343

ccttgagatt tcacattaat ttcaatagaa acaaattcac tgtcctgagt 3071393

ccctgaatta atatttatgc aaaacattta caaattcctt caaatggacg 3071443

taattattag ttaaaattat ttgctataac aggccagcat gtctttgtca 3071493

ctctgtgtca tggctttgta ataatatggt tatgcagtat ggccatataa 3071543

gctgcctaaa ttcactgttt ttgtatatcc ttcaactact cacaaggcct 3071593

tcctaagata ttcagtgctc ataaagttga atctttcatg tggaaaaaag 3071643

aggggtggat aggaaaaaca aaagaaatca ctgaacacca tgcagaagat 3071693

gcagaagatt aacagactaa actagcaaac cgcaagactg taaggagaac 3071743

tgacttgggt caggagctaa gctcccaaag tccagtggac ccaactagag 3071793

gccttcccaa actccaccgc acacagcagc acctgcaggt cctagttggt 3071843

cttgacaaat ttgaggagat gtggctgaga ctgaagaaga gataccaaat 3071893

aggactcctc ataaagtaga aacctttac tcaaaagggc atttttcagg 3071943

gcatgttgta gttcctgcct gtttctttac tgtctgtgac ctttttaaa 3071993

tattattaaa cattctttca caacatcgct tttgcaaact gctagatata 3072043

tttcagtgtt gatgggcata actgattctc tcctctgtac atgctaagtg 3072093

ttttacctac ttttgctgtt ctatgtaatg ctaccaggaa cagctttgca 3072143

cataatcttt atcagcatct ctgatttgat ccctcagagt aaagaaatac 3072193

tgagtcaagg aattattcct ttcaaaaaaa taattttaat tttacattta 3072243

attcatgtct attgtggaaa atttggaaaa catagtaaaa gtgtaaagaa 3072293

gaaagtaaaa atcaacctat catcaagata caatccttgt taacattttg 3072343

gtgtctttat gtctttttta tctgtactta tatctttatc tatttacata 3072393

tatatatata taaaacacac acaaatgtga atataatttt tacagattta 3072443

ttcgtcaaaa acaattttga atggctatat aatattctgt taggagtgtg 3072493

ccgtaattca tttaacaata tttttatttt tatttttttg gacaattaaa 3072543

tagttctctt tttaaaatag ttattcaatt gatgatgggc cggcatacgt 3072593

tgggttctgc taggctctgg agatggtgca caagacaagt ttcctgcctt 3072643

ctgtgaactt catgagaaat aattctcaat tacagtactg tcttacctat 3072693

ggaagtgtct aatgggaaga cttaggatgg cttccttgac aaaatgacag 3072743

ttctctgaca cctaaccagg caagaagttg gaagaatatg gcctaagagg 3072793

gtggggcgga tgacccttat ggaatgggga aggcttcaca gttctgcctg 3072843

ctccagtgat gtgtagtgaa tgaaaaagga ggcctaaaat caatgttatc 3072893

ttttatgccc tctgtctcca cccgctccta cctcattctc actaggattg 3072943

gtcagtaggg ccctgctgac agagtgatcc cagctgagaa tgttggcatt 3072993

ctcaaagccc aaggaaacaa cacccgtgtg gataaacaca tgtgggcggc 3073043

tgggccaacc atagctagag acataaagca ggcaacaaac gtgttttcac 3073093

aaatatatac atatgtacat atatacgcat atacaaatat atacatatac 3073143

gtatatacac atagacaaat atagctatat atctacatat acaatatatg 3073193

catacacaca tacaaatatg tgtatatata cacacatata catttttata 3073243

tcatatatta tatattacat atatacatat acaaatatat gtatatttat 3073293

acgtatacat acatgaacgt atacttttt tttctcataa tccttaccac 3073343

ttctgtgagg tggtcattat tgtttcactt tgcagatgag gaaactgagg 3073393

cataagtaag tgccccaagg tcacaggttg gtgagtcaca gagctagagt 3073443

tcacgctcat agtggagggc ccgtgctctc ggagctatgg ctcctggtct 3073493

cttacctcac gcgtgtgcct caccccaccc ctcagtcttc aggccttcat 3073543

ctaggcagcc ccccgcctcc acccactgcc cacgtcccac cgatgtagtt 3073593

gtttcctgag gcacttctct tgtttggtaa tgtcttatgt cctaggaaag 3073643

aaggcccata ggtgctgctg tatgagcttc ctccgctaga cagagctggc 3073693

cccagccttt agatgaggtg tagaaggctg gttacccggg tcacctgtag 3073743

ccggccactg tgcaacacca tgggcagcct aggagtttcc agagtcccct 3073793

ctccccaagg tatttctttt ttcatttttt aactccctgc cctccaacat 3073843

tttattatga aaaacaccaa gtctgaaggt tacgtccacc acgactatcg 3073893

tcttaacacc gcttgcttca tcgtgtaatt ctccatctcc tttcccgtca 3073943

tctgtccgtc attgtctgac tttttgatgt atttccaagt acacatcagt 3073993

acacatctcg aaatacttca gcatgcatac catagctaga gttcaatatg 3074043

tttacaggtt tgtcttttga tgtaaaattt acctgctgtt gttgggagta 3074093

catctgctga gtatgggcag atgcgtatgc ctgcaaccct agcccccgtt 3074143

gatatcctac aacattatca tcaccccaga aagttccttc atgcccctgc 3074193

ccactcagcc tcaccgtgct cacaggcggc cagtgttctt tttctgacac 3074243

agattggttt tgacttctga accgtcatat aaatagaatt acatagtatg 3074293

tatgcttttg tataaggcga ctttcactta tcacgttttt gcatttcgtt 3074343

catgcggttt tcattcatgt gtatcagtag ttcattttta ttgctgagta 3074393

gtatcccatc gtgttcatac accagtgtgt tcactcattc tcttactgat 3074443

gggcagctgt ttccagtttg gagctattat aaataaagtt gctatgaaca 3074493

ttttacaagt gttttccaac atacgttttc atttctcttg ggattggaat 3074543

tgctgggtca tagtgcaggt gtttgtggtt ttataaacaa aataaatgcc 3074593

tatgaaattt caatgaatat tttatgcccc agaaagagta tttttcatgg 3074643

tctgtatctg gatgtagata tttattattt tattttattt taatttttt 3074693

gagacagagt ctcactttgt tgcccaagct ggagtgcagt gagtggcatg 3074743

cgatctcggc tcactgcaac ctccgcctcc caaatttaag caattctcct 3074793

gcctcagcct cctgagtagc tgggattaga ggcgcgtgcc accacgcctg 3074843

gctgattttt gtatttttag tagagacggg gtttcaccat gttggccagg 3074893

ctggtcttga actcctgacc tcgtgatccg cccgcctcag cctcccaaag 3074943

tgctgggatt acagacgtga gccacggcgc ccagccggga tgtgggtatt 3074993

tctggaatac aaaacatcca tagccctcct tttactctca aagcaaaaca 3075043

cagacacgca cattcacatg cacacaccag tgtgtccgtg tcctgttggt 3075093

ttgcatggag tttctgtttt gccacgaagc tttttgccag ccctttccc 3075143

aaagtgtttg taccatttta tactcccacc agtgatgttt gagaggtctg 3075193

gttgcttcac atgtttgcca gtgtttggtg tattagtctt tttagttttg 3075243

gatatcctgg tagttgtgta gtggtgtctc cttgtggttc tccatgggtt 3075293

tttattctat atttcagttt ggggaaaatg aatgaatgga agaaaagaag 3075343

ggaggaagga tgaagcaaat agctgtgctt tgagatctga cactgtatac 3075393

ttcacagccc tgatggacat tctccaaatt ctactccttt ttcacatttt 3075443

cttcttagag tttgcattgt tctttttata ttcttcagat tccttctttt 3075493

gttcataatt acttaaacct attcattttc taatgccttt cagttgttaa 3075543

tttactgaag ttctttggtg cttactagtg ctgcttgctg tagctgcagg 3075593

gtctgtctca cagtgaattt tttcttttgt gttttataat tttggaaagg 3075643

gagctcatgt taaatttgta tttgtaggaa ttctgtctgg cctggcttga 3075693

ggttgttgtt tgctttagcc tataacctca ggatggcatc agcctgtgac 3075743

cacttcctgt gtaaaagttc atagtttagg cgatcctctc aattcaaagt 3075793

ctgtatctat ttcaagacag gcccaaggtt ataaatttgc acaaacttt 3075843

ttttttttt tttaatacct tgtgcccagt ccaagacaaa tatgtttgtt 3075893

tgccatgggc tgctttttt ctagttcatc ctttcatcaa agggttgcac 3075943

attgagcagt gccgtgttaa ggggggattc ttcattctac cttcttttct 3075993

tgtattcctt gacctcagct gggctttaaa ccttgacttc tggatggcga 3076043

ggttggcact cccctgtgtg agctactgcc tgcctccggt gctctgtttc 3076093

tgtccctaga gttcttttcc tttccacgga gttttggtat gcatttcaat 3076143

gaatgtttgt attatgttgt ccaacatact tgtgtccttt atagctggag 3076193

ggttcttaaa attttctaat gctccatatt gccagaaata aaaaggctga 3076243

gggaataaat attatagtct tctctgattc ttaaaaatat gaaaaatagc 3076293

tcatcagatg actgtaagtc tatcctcaga aatccaaggc acaccaagca 3076343

tgtggtggaa tgttaacaaa agtttttaaa aatgatcttt tctgccaggt 3076393

acaatggctc acacctgtaa tctcagcact ttgggaggct gaggtgggag 3076443

gatcccttga tcttaggagt ttgagaccag cctgggcaac atagtgagat 3076493

cccccggccc ccccatctct acaaataatt aaaaaatcag ctggtcacgg 3076543

tggggtgcac ctgtggtccc agctactcaa ggaggctgag ggaggaggat 3076593

tgcctgagcc caggaggtcg aggctccagt gagctatgat tgtgccactg 3076643

cactccagcc tgactgacaa agtgagaccc tgtctccaaa ggagaaaaaa 3076693

aaaaacatat atatatatat atatatatat atagtcttgc cctgaggttt 3076743

tctctctgtt ttctttacag GGTACAGCTC TGCCGGGGGG GGAAAAAGTG 3076793

GTACCATTTT GGGCGTTCTT GAGCTTCAGA ATGCAACCAG ACATGTCCTT 3076843

GAATGTCATT AAGATGAAAT CCAGTGACTT CCTGGAGAGT GCAGAACTGG 3076893

ACAGCGGAGG CTTTGGGAAG GTGTCTCTGT GTTTCCACAG AACCCAGGGA 3076943

CTCATGATCA TGAAAACAGT GTACAAGGGG CCCAACTGCA TTGAgtgagt 3076993

agggagcagg ggtgggtggg ctaagttctg agcgggatgg ggacgttggc 3077043

tgttgtggag ccgttggctg ctgcggagcc gttggtgggt agagtgagag 3077093

ggagcctgcc aagatgtcag ggtgacgatg gctcttcgga ttgttattgt 3077143

cgctgatgtg gactctgaga ctgggtagtg aaggactctc acagctggta 3077193

agtaacagaa gagacatgaa caagaaggaa atagagaaag acaaagagat 3077243

aagtgtggtg gggggacaat gaaaaggaaa caggaggatg ggtgaagaca 3077293

gacctattca ctcgcttcac attttcagtg aggaccagcc ctaagtataa 3077343

aaatgaaaag gcagttcatt cctgagaggt tctgagagcc ttccctttaa 3077393

agcaaccagt agagtggttt cacctctctc cctcctttgt cagagtggtt 3077443

ttgagagagg ctgtttttt ttttttaat cgttctgtcc agcacggtct 3077493

tttttcaggt taccttgctg ctgttcatgt acttttcatt cattgattca 3077543

ttcattcctt cattgattta cattttgga gcatgcactg ccagttactg 3077593

ggcaggagta ctgtgaggaa gtgagaaacc gctctgcctt ctaacgcttc 3077643

tggcctgtgc ctggaagaga tcggtacaga cccaagcatg accccagcac 3077693

gtgggagtga tgtgttggag gtgtgcacca ggctcttgag gcgctggctc 3077743

tgccagcctc agcatagcac ctttcctgcc cacagGCACA ACGAGGCCCT 3077793

CTTGGAGGAG GCGAAGATGA TGAACAGACT GAGACACAGC CGGGTGGTGA 3077843

AGCTCCTGGG CGTCATCATA GAGGAAGGGA AGTACTCCCT GGTGATGGAG 3077893

TACATGGAGA AGGGCAACCT GATGCACGTG CTGAAAGCCG AGgtagagag 3077943

ggcccctccg cacggggatc cccagcgctt gggccctggc tgtctgttat 3077993

ggctcccctt ggggtgtttg tttgcagctc gttagcatca aatttgcaaa 3078043

ttgcttggta gtttgaattt tcttttcctt tttttataga gacaaggtct 3078093

tgctatgttg cccaggctga actccaacac ctggtctcaa gtgatcctcc 3078143

cacctcagcc tctcaagtag ctgggattac aggctggatt tcctgaagtc 3078193

agtttctcct taaaacatct atgccttgat tgggctccgt gggtcacttc 3078243

tgtaatctca gcacttttgg caggaggatc acttgagcct tggtgctcaa 3078293

gaccagcctg gataacacag tgaaatcccc tctctacaaa aaataaaagg 3078343

tgcatgtgaa cagagcaaga ccctgtctct gaaaaaaaga gaaaatcttc 3078393

cttgcctttt actgccctga gagtggtctc ttcatcctct cgatcctgtg 3078443

gacagtcctc catagtctgt gtcttaggaa tgtgattggc tgtttaccat 3078493

acctgtccgc tgctctgcaa tctacagttc agagacaagc cctgtcttca 3078543

tgatgcagac atcatctgat gtagagtata tgcatgatgg gatgacatta 3078593

aatatggatt aatgaaagga tatacactat aaatgaccgt gagagcagat 3078643

agaatattag tggttgcact ttgataccat tcaacaaagt tttattttaa 3078693

attaaatata gaaattattg gcaacaacac tggataggat ttaaaacaaa 3078743

aataaaaatt gtttaccaaa gtcaaatgat ttgaaaacat ttttaaaagc 3078793

ttatgtgcct gttaagatga aggccttgcg ctagttgctc atgaatcaat 3078843

agctaatatg acgtaggaga gtaaaaggag gcagatagct aaataagtgg 3078893

tatggtgtga tggggttttt ttttttttctt ttgtaagaga acaaggtctc 3078943

actgtgttgc ccaggctgga gtgcagtggc acaatcatag tgcactgcag 3078993

gcttgaactc ctggccttaa atgatcctct cacctcagcc tcctgagtag 3079043

ctgggactat gggcatgagc cactgcaccc agctgtgtgg tggtattttt 3079093

ttttttagag gagtctcgct ctgtcgccca ggctggagtg caatggtgca 3079143

atctcggctc actgcaacct ccacctccct ggttcaagca actctcctgc 3079193

ctcagcctct tgagtagctg ggattacagg cgcctaccac catgcctggc 3079243

tatttttta atttttagta gagacaagtt ttcaccatgt tggtcaggct 3079293

ggtctcgaac tcctgacctc gtgatccgac tgccttggcc tcccgaagtt 3079343

ctgggattac aggcatgagc caccgttccc agctgatggt gttttgatag 3079393

acatactcat tgctgaggga gtacacatga gaggcaccca ctcagcctgg 3079443

aatagacaga aaaggcttcc aatgtgaagg acatgtagac gttttgaagc 3079493

agagaattag agaacaagtg ttctaggcag agagaatacc atgtagagac 3079543

tgccaaattt ggggaactgt aaattcctgg gtttggctag agcatagatt 3079593

gcacagggta tggggagggg tggcgggata tggctgcctt tatggcaaat 3079643

actcccactt ttccactttc ttctcccacc ccacaattgc caagccaaca 3079693

gacatctcac aaaaataccc ttgggaagga gaagaggtga tcacttatac 3079743

gcatggtatt atagtttgat cagattgctc tccaccccag aactagagaa 3079793

gatcagctgt ttgaagtaaa cattttgatt gggaaataag tctttggtct 3079843

cccatccaag tactaaccag gcccaaccct gcttagcttc tgagatgaga 3079893

gagaaatcat tggggacatg aggcattgtg caagatgagg gaaagttcag 3079943

gtgcacctgt ttggactcag tcagggcatc aggaggacct gagagagaag 3079993

cagaaagaga ggagagaggg ggaccaactt tgcttactca gaagtttttc 3080043

ctaagtccaa aggtatacca aggaagaaga gaaaacatct tttctgctac 3080093

tttctgtatg gtggtgatca agctattaac agtgtagctc tgctacgtta 3080143

tgtcataaat atggtttgag ggggaatctc acttctatca ttaaaatttt 3080193

tttcctgtta accaacgacc aaaatacata tacattttta ggaaacatct 3080243

tgtttgtata ctgatttttt attgttaagc aaaactgtaa tttaaccact 3080293

ataatagaaa ctggaattgt ttctgttagt attgatgctc acataacaag 3080343

aatacaatta taagaaccag tgacctgaga ctctacagaa gcctgaagta 3080393

tctgctacca ggtcatcaaa tagatattaa ttcacttaag cgtagtttta 3080443

acatcatgtt tatctcagat ttttctatga ttgtaatcag tgtgaacatg 3080493

ttcccttgta ttctttttttc tcttaatgtt attttacacg cgacatttgc 3080543

atggcattgt tcatgtcctt aatgtaaact tagtatgatg tcgtgtgagt 3080593

atcccacaga aactgcttgc tcgtatattt attcatccat tcattcaaca 3080643

agcattccag gtacaatcct aggttctaaa gatacagtcc taaataatat 3080693

atatttttgt tctcaaggag cttaatttta tagtatttta tgcattacca 3080743

aattattgtg ggatttttgt ttttacacta acaaaataca acacgaatac 3080793

cctctgcccc cccccgaatg aaatctttct tgtttcccag tgacagcagt 3080843

actgtggtgc acctgctgga aggaaacctg gtaaccttct cctcaggctc 3080893

agatcccacc acccttttcat gaaacagttg ctttggccta tttgataacc 3080943

tttccatttc atagacttaa tatcacttgt tttagATGAG TACTCCGCTT 3080993

TCTGTAAAAG GAAGGATAAT TTTGGAAATC ATTGAAGGAA TGTGCTACTT 3081043

ACATGGAAAA GGCGTGATAC ACAAGGACCT GAAGCCTGAA AATATCCTTG 3081093

TTGATAATGA CTTCCACATT AAGgtaaacc atcatcggta ggcttccaga 3081143

aagttgggtg attttagttt taattctcca atgtaaatcc attctcgtac 3081193

attggagaag ctaaaggaag acctagctca gcttataact gttgatgatg 3081243

gtgccgaaag gctctaccgg tgattgagag gaaggctgca ggcttgatgg 3081293

gatcaggaga taactgtcag gataactcat atcttttggg ggaggagtgg 3081343

agttgaatgg ggtagatgag aagacctctt tcctagactg tgtttttttcc 3081393

tctgttagaa acatttagaa acattcaagg gttgcccttt tcatcctgga 3081443

atgggccatt ggtgtcataa tgttctccag gaaatctgtg tcaccaagac 3081493

tctcctcctc tggaaatgca ggggaatgtg aaggtgtgtg cggaaaatcc 3081543

ttagagttca gatatggcct aagagtgaga tcagcggccg ggtgcagtgg 3081593

cccacgcctg ttatctcagc actttgggag gctgaggtgg gcggatcacc 3081643

tgaggtcggg agttcgagac cagcctgacc aacatggaga aaccccatct 3081693

ctactgaaaa tacaaaatca gccgggcgtg gtggtgcatg cctgtaattc 3081743

cagctactcg ggaggctggg gcaggagaat cgcctgaacc ggggaggtgg 3081793

aggttgtggt gagccgagat tgtgccatcg cactccagcc tgggcaacaa 3081843

gagcgaaact ctgccttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3081893

aaaaaaaaaa aatcagcagt gcatcaaaaa cctctacttt gaaattttgt 3081943

tttatatttg tattcgattg tttacttctg tctgtatttt aaaaatcagt 3081993

ttcctttgaa cacattcttt ccattgtcgt aaagggaaca agggaaaggg 3082043

atttttcttt tgttcattca agggcaggat ttagctaggg ggagtgtcat 3082093

atctaattgg cttctgcagc aggaatccaa gcacaagaat ccaaaagggg 3082143

aagcggaagg ggaagcagcc ctgggggagg cacccaggag ctgctgacac 3082193

aggggcctct catcaccagc aggttctgcg tctagcgctt tgtcctagtc 3082243

ttggacaaag ggctgggaat aaaaattcct tattcataac ctatcttcaa 3082293

attcatgact tccctcttat gtcgtgggtt agaatctgtg aattttaggt 3082343

actcatgtgc cacagttcat ccccacatgc ttgcttggat tcctggaggc 3082393

agaagtggaa ctggcaccta tattctcttc tgaactgtgc tgccctgtca 3082443

ttttgccctg ccagcactgt tcttgttctg tgtctgacct tgctattttt 3082493

ctctctgctt ttttgtctgt ttttctcctc ctttccaccc tatctcctct 3082543

taggttcagg ctacagctca aaacaagcaa cactgcagtc cttatcctca 3082593

gtgtgtcttt gggatccttg gacacttgca tccatgggcc tctggacgcc 3082643

atttggggaa atagaaggtg tagtatttag ccactgtctg ctgcataaat 3082693

gtgcagagaa gaaaataacc attttccccc caagccctag aaatagttga 3082743

aaaacatacg cagagtcaat ggggaatgag aataaatatg tttggttgtt 3082793

actgttcttg tcagaaacat cttccgcttt tcccctcccc cttactgcat 3082843

aaggaatacg ataccagaat ttcatgtgaa cgtttcctgg gcgacatttt 3082893

acaaatggct gaggagacac acagtttcta tgagtctgtt gagaagtcgc 3082943

tgttttgaac ctgcccagtg caaccatttc tggaaaattt accgtacctt 3082993 DELexon5

atgtataatg gataagccca aaattgaaag tcagatctga tttgcttacg 3083043

gccttcacca aacaatccca gtggctcaat gtctttcgca gATCGCAGAC 3083093

CTCGGCCTTG CCTCCTTTAA GATGTGGAGC AAACTGAATA ATGAAGAGCA 3083143

CAATGAGCTG AGGGAAGTGG ACGGCACCGC TAAGAAGAAT GGCGGCACCC 3083193 G181S

TCTACTACAT GGCGCCCGAG CACCTGAATG ACGTCAACGC AAAGCCCACA 3083243

GAGAAGTCGG ATGTGTACAG CTTTGCTGTA GTACTCTGGG CGATATTTGC 3083293 Y212*

AAATAAGGAG CCATATGAAA gtaaggcatt acttactttc cactgccgtc 3083343 c.688_688+20del

ccctcagcat ctacacgcac tgtgcctgga actaataggt gcccagtaaa 3083393

tttttgttga atgaatgagt aatcccattt aggaatcagt gatcatagga 3083443

tgaataggaa cctcgatagt gtgtcattag ctggagaggt gctgtgaaat 3083493

tccagggttc ttcctagaca ggaaagttga ttgtttctgc ttgtgaggac 3083543

ttagcctttc acactacaag gcatacactt catactttca ctcattcact 3083593

tgctccttca ttcaagaatt atttcttttc agtccctact gtgggcactt 3083643

gagtcggcat tgggaatata aagatgagta agtcgtggct tgtgtaggat 3083693

agagacactc tgcagtttgt taagtgcata aactgatgga tgttgtccta 3083743

catactcttc ttgggtgatc atcagctccc atggtttgat gatcatctct 3083793

ttgcaaatgc ttcttaaatc tgtgtctctg gctctggaat ggatatccac 3083843

ttgtcttaca gtcagatcca tcgcaggtac cagaggaacc tccaaagcag 3083893

catcccccaa acacatcctg tcgacactgt cctgcagctc gccccgcttc 3083943

acccctcttc atatgcttgg gaagtggcat cgccatcctt ttaccaagtt 3083993

gttgcccaat aagaaacttc agagtcatcc cagactcgcc cttgcccctc 3084043

tctcccacat tctatcagat ctcaaaacct gtgaattcaa gatatatgta 3084093

tgactcaaga tatatctgca acccatctgc ctttctctgt ctccactggc 3084143

ctctgctcag ttcaaaccct cctcgtttct gcagcaggct ccttccaccg 3084193

tccaccattc atgtggcagc caaaatggtc gtcctaaaag gcacatgcaa 3084243

ccctctccct cacatattgg aaatccttcc cagatgctct gtggtcttca 3084293

ggatgaagtt cgaattcctc agcgtggaat aaaaggcctt catgttctgg 3084343

cctttgcttc tctactggcc tcgtccctaa ccctcccttc tttgtcagtg 3084393

tgcagttaca ctgaggaatt tgtgggatgc gtcatgatct ctgtaacttc 3084443

tagtctgttg atatcctgct tctcttcctg gagtcctcct ccttaagtct 3084493

ccctttccca ttctttacct gctaattttt ctggactcaa caaagccttc 3084543

ctggaccttt ttagtcaggt ttgtgctact ggaaccccct gtacatcctt 3084593

ttttttttt ttttcccgtg agacagagtc tcattctgtc gccaggttgg 3084643

agtgcagtgg tgcagtctcg gctcactgca gcctccacct cccaggttca 3084693

agcaattctt ctgcctcagc ctcccgagta gctgggacta caggtgcaca 3084743

ccaccatgcc cagctaattt ttatattttt agtagagacg gggtttcacc 3084793

atgttggcca ggatggtctt gatctcttga cgtcatgatc cgcctgtctc 3084843

aacctcccaa agtgctggga ttacaggtgt gatccaccat gcccagcctc 3084893

agccttcttg aatagcaatg atcactctgt gttttaagtc actctcatta 3084943

aactgagctc ctaaagacaa ggactgccct gtatttgctt ttgcacatgg 3084993

agcatgccat tggccttgcc cacataatct ttttgttcca tcagcaggca 3085043

gctttgtcga gaattttgtt ttatctgcag acattaagat attgtttggt 3085093

catctctgta gtggaatatg tcagctcctt gtcataaggc cattccactc 3085143

tatggaatga ggcagctgta ccagaggctg agaaaaatga gcagtattgt 3085193

tcaagttctg tcaccttcct gcctgagaga ggagcaagac ctgaaagaaa 3085243

gtctttgctt tgtagATGCT ATCTGTGAGC AGCAGTTGAT AATGTGCATA 3085293

AAATCTGGGA ACAGGCCAGA TGTGGATGAC ATCACTGAGT ACTGCCCAAG 3085343

AGAAATTATC AGTCTCATGA AGCTCTGCTG GGAAGCGAAT CCGGAAGCTC 3085393

GGCCGACATT TCCTGgtaag agcatctttt ctgactgtgt aggatgcatc 3085443

ctgtgtggtg attttcctag taacatattg ttaggaactt ggtttgaatc 3085493

ctcagaaaac tgagttcgac ttgacttgtg gttttaaact gattttctag 3085543

atttcaaaca tgttattcag tgcaaagaag ccctctctct caaaagcatg 3085593

atggcacata aggccttctt gtttccttt tttgtaatta actttttaac 3085643

ttgggtttaa atatacgtaa catgaaattt aacattgtaa ctgttttcaa 3085693

gtgcactgtt caggggcagt aagtacagtc ccatagtaca ttcactttcc 3085743

atcgtctctc tccctgcccc tggcagcccc tatcctactt tctgtctctg 3085793

tgaatttaac tgcactgggt gccttatata taagtggaat catacagtat 3085843

ttgtcctttt gtgtctggct tactccactt ggcatgatgt cctcgaggtt 3085893

catctgtgtt gtagcatatg tcagaatttc tttccttttc aaggctgaat 3085943

aatattccat tgtatgaatg gagtgcattt tgtttatcca ttcgtccgtc 3085993

tatgggcact taggtggctt tgaccagcct tcttgcttct tcacttcttt 3086043

tatttccatc ccctcccttg tttagctggc atctttagaa agtattttgc 3086093

cgtctagatt ggccttgtca tacagggatg aggaaaggtg ccgggatgtt 3086143

tgctgagcag tattctatgg tgtggatgta ccacggtttg gttaactact 3086193

cactccttga aagacttgtt tccagttctt aactgttggg actaatgcag 3086243

ctgtaaatat tcgtggacat gtttttgtgt gaatataagt cttcatttct 3086293

ctggagtaat acccaggggt acaatagcta ggttgtatgg tagtttcatg 3086343

tacagtttat tttaaaaatt ccctaacatt ttcccagagg ggctgtgcca 3086393

ttttatgttc ggtgtccgag tgatgcaggt tcttgtatcc tcaccagcat 3086443

ggggtaccca ggctcctcac acttctgctt agtcagctac aaatttattt 3086493

gagtattccc acaagcccca cttcaggttt ggtaattcgt tagaaagact 3086543

cacataactc aagaaaacat tttacttacg tctccccttt tactgcagtg 3086593

ggtacaattc agaaacagcc aaatggaaga gatgtacaag gtgaggtatg 3086643

ggaggagggt gtatagaact tccatagcct ttcaagacac accgcattcc 3086693

agtgcttctg tgtgttcagc aacctcaagc tctccaagcc tcaccgttta 3086743

aggtgattta tggaagttcc attacatacg catgactgac taaatcatgg 3086793

tcattggtgc ttgagcttaa tctccagtcc ctctctcctc actggaagtc 3086843

aaaggtggag ctgaaagtcc caaccttcta attatagctt ggtctttctg 3086893

gttgctagcc cccattctga agttgcctag ttttctgacc ccacccaaaa 3086943

gacactctta gaagactcca aggattttag gtgctacctg ccatgaacaa 3086993

aatcaaacct tcctgattct ccaaggtgtc ttcttttatt gtttcctttc 3087043

tgtttagaga actttcctta atcattcttt taggatatgt ctgaactctg 3087093

tcattctaaa attttttttcc ttatagggaa ggtgttattt ttctcttgct 3087143

gctttcaaga ctttgtcttt atttttcaga gatttagttg ttatttatct 3087193

tggtgtggat tcctttgggt ttattctgtt taggttttgc tcagcttctt 3087243

aaatctgtag gtttatgcct cttaaaccat atttggggag ctttcagcca 3087293

ttatttctgt aagtactttt taacccccac cctctttctc ttttctttct 3087343

ggaattctga caacataaaa actatatctt tggttatggt tatagtccca 3087393

caggtccctg aggctttgtg tttttttttgt tttttttgtt tttgtttgtt 3087443

tttttcagtt aattttctct ctcttattca gactgggtaa gttctatcat 3087493

tctgtcttcc agttcactga tttttctgtt tctcctcgat tccacagttg 3087543

aacctgtcta ctgagctttt ttttttttttt gacacggact ctcactctgt 3087593

cgcccaggtt ggagtgcagt ggcgcaagct ctgcctcctg ggttcacgcc 3087643

attttcctgc ctcagcctcc cgagtagctg ggactacaga cacccgccac 3087693

cacacctggc taatttttttg tatttttagt agagacgggg tttcaccgtg 3087743

ttagccagga tggtctccat ctcctgacct tgtgatcagc ccgcctcggc 3087793

ctcccaaagt gtgggattac aggtgtgagc cactgtgtcc ggcctaccga 3087843

gctttttatt atgttttggt cattaaagtt ttcagctcta aaatttatat 3087893

tctccccttt tttgctgaga ctttctattt ttcatttgtt tcaagcaggt 3087943

tcataactat taattgaatc gtttttatca tggctgtttt aaaatccttg 3087993

acaggtaatt ctgacattgc tgtcatctca gtattggcat ctattgattg 3088043

tcttatttca ttcagtttct gattcttaat gtaatgggta atttttctgt 3088093

tgaaacttgt acattttctt cctatgtttg gagattctgt atcctcttta 3088143

agccttctgt tttaactgaa ctttcctgac actgctctga caagggaaga 3088193

gtggtggcca ccttattagt gctgggtaga ggtagaagtt cagcctctcg 3088243

actcagccct tattgacacc taaggtcaga ggctcctctt cactgctgat 3088293

caggggtggg aattctggca gagtccacac ggtccccact gacacagagg 3088343

tgaaggtacc tcattactac tggacaatgt taaaagtccc gattctccac 3088393

tagacctcct ctgacacttc cccagtgggg aagggaaggg tggtcttgtt 3088443

actgccatgt ggggcaaatc caggctattc ttgtgttctc ctgacaccat 3088493

gggagtggag gcgctcatta tcagctggca ggtaggacag ccctggcttc 3088543

ctgttgggcc ttctctgaca ttaccccggt gggggtgttg ggttacgttg 3088593

ttactgtctc atgcggttgg atgttgaggc tctccacttg gccttagctg 3088643

ctgtgggtgg ggttggagcc acagggtttt ttctgtggtg gttggctgga 3088693

acagagtggt tgctgactaa aagttttctc ctatccaagt actaaccaga 3088743

cctgaccctg cctaacttcc aagatcagac aagtttgggc atattcagga 3088793

tggcatggct gtagactggc taaaggtttt ctgtctgtcc cttgctgccc 3088843

cttgcttagt tctttggcta gaaagagcag gctttagttg gagatttttt 3088893

tttatctgtg gctcttgatg gtttgaggtt gccacctttt cagccaagtc 3088943

tgagatatat gaggaaaaga gaaaatccag tgaactcact atcgtgtgtt 3088993

tcatctgatc ccgaggtttc ctgctggtct gcctccttct cttctccttt 3089043

cagagactct gtatgtttgt tttataaata atatatagga tgtttttgtt 3089093

gtacttagaa ggaagattaa gaaaaaagta tgtccactcc atcttcctgg 3089143

aactggaagt ttctttttc ttttaaggct aacagctgta acccattaca 3089193

ctaaatcctt cctctgacta tcccaatctc tcataaattt gatgccagag 3089243

gaacagaaac atggagttcg cccatccctg ttcagctgga gatgaactca 3089293

catcagggag cagtttgtgt tgcagccaga gaaactgcag cacgaataaa 3089343

aagcacaaag agcacaggct attgaggcag aaacccctgg tttcctgtgt 3089393

tagcctatcc cttgttctgt ctattaatct tattagtctc tatcagagtc 3089443

agtgatttgg agcttaaatt tttatttaag ctttgcccac agattgaggt 3089493

aagtaattca aagataatag atggctaata tttttatttt atgttagaaa 3089543

ataattaaga aatttaaagt acattttact tttacagGCA TTGAAGAAAA 3089593

ATTTAGGCCT TTTTATTTAA GTCAATTAGA AGAAAGTGTA GAAGAGGACG 3089643 Y289*

TGAAGAGTTT AAAGgtaggc aatatagcag atgctcaaaa tattaacata 3089693

gcaaaatata tactgtcaat catgaaaacc aaaacaaagt gatttgttat 3089743

tgagatttga ggtaagctag cttggtaaac atataaaaca aaatgagcaa 3089793

ttgtctgcac atatcatcct gttggcatac tggacccatt tctccttcaa 3089843

aactcatgaa atgagagaaa acatatatag caatatgaaa acaaaagcac 3089893

aatgtcactg gcaaagattg gaaagtacca taagtggatc agccattttg 3089943

aggaattctt gaaagataga aagaccacag aattattctg ctgagacata 3089993

taacagacaa ggaatactag cccaagacat aatgctgagg aagaagtacc 3090043

ggaggggcag tcttgggtca gtgtgcagaa gcaacagcac agtcacctgg 3090093

gatgttgaca ggggagtcat ctgagaacct catttatgct atttaggaaa 3090143

gtcggcttct ctccctcctt cccctgtact tagcaacaga tggcagcagc 3090193

atctgcccaa gactgaagca aggaggtggt ttctggggtt agaggggcat 3090243

gacaaggccc agttaggaac caatcaacta agaggaatgg agaccacccc 3090293

gccccccctgc caactctgga atcaagctac tgccatccat cttccagcaa 3090343

cctaccccat aatcatgaac aggagactac gacaaataaa acaggcagag 3090393

actttaaaat ataatttaaa aaagagatta gaatcagcta agataaactc 3090443

taaggcaaaa aatcattccc tcaaacaatc aggaatattt cataatgata 3090493

aaaggcccaa ttcatctgga aagtataacc gctttaaatg tggatccacc 3090543

ttcaataaca tgacctcaaa atcaaccagc caaaagtgac agaactcaaa 3090593

gaaaaacaga caaatccaca attaaaactg aagattttaa tacacatctc 3090643

tcttcaattg atagaacgag caaacaaaaa tcagtaagga tatagaagac 3090693

agaaagaaca tgacgaacac acttgacgta acggaaacac aggatacgct 3090743

gcacctaata accgcagcgc acctacctgc cgcacctagt aaccgcagag 3090793

cgcctacctg ccgcacctag taaccgcagc gcacctacct gccgcaccta 3090843

gtaaccgcag agtacctacc tgccgcacct agtaaccgca gcgcgcctac 3090893

ctgccgcacc tagtaaccgc agcgcgccta cctgccgcac ctagtaaccg 3090943

cagcgcgcct acctgccgca cctagtaacc gcagcgcgcc tacctgccgc 3090993

acctagtaac cgcagcgcgc ctacctgccg cacctagtaa ccgcagcgcg 3091043

cctacctgcc gcacctagta accgcagcgc gcctacctgc cgcacctagt 3091093

aaccgcagag cgcctacctg ccgcacctag taaccgcaga gcgcctacct 3091143

gccgcaccta gtaaccgcag agcgcctacc tgccgcacct agtaaccgca 3091193

gagcgcctac ctgccgcacc tagtaaccgc agcgcgccta cctgccgcac 3091243

ctagtaaccg cagagtacct acctgccgca cctagtaacc gcagcgcgcc 3091293

tacctgccgc acctagtaac cgcagcgcgc ctacctgccg cacctagtaa 3091343

ccgcagcgcg cctacctgcc gcacctagta accgcagcgc gcctacctgc 3091393

cgcacctagt aaccgcagcg cgcctacctg ccgcacctag taaccgcagc 3091443

gcgcctacct gccgcaccta gtaaccgcag cgcgcctacc tgccgcacct 3091493

agtaaccgca gcgcgcctac ctgccgcacc tagtaaccgc agagcgccta 3091543

cctgccgcac ctagtaaccg cagagcgcct acctgccgca cctagtaacc 3091593

gcagagcgcc tacctgccgc acctagtaac cgcagagcgc ctacctgccg 3091643

cacctagtaa ccgcagcgcg cctacctgcc gcacctagta accgcagcgc 3091693

gcctacctgc cgcacctagt aaccgcagcg cgcctacctg ccgcacctag 3091743

taaccgcagc gcgcctacct gccgcaccta gtaaccgcag cgcgcctacc 3091793

tgccgcacct agtaaccgca gcgcgcctac ctgccgcacc tagtaaccgc 3091843

agagcgccta cctgccgcac ctagtaaccg cagcgcgcct acctgccgca 3091893

cctagtaacc gcagcgcgcc tacctgccgc acctagtaac cgcagagcgc 3091943

ctacctgccg cacctagtaa ccgcagagcg cctacctgcc gcacctagta 3091993

accgcagagc gcctacctgc cgcacctagt aaccgcagag cgcctacctg 3092043

ccgcacctag taaccgcagc gcgcctacct gccgcaccta gtaaccgcag 3092093

cgcgcctacc tgccgcacct agtaaccgca gcgcgcctac ctgccgcacc 3092143

tagtaaccgc agcgcgccta cctgccgcac ctagtaaccg cagcgcgcct 3092193

acctgccgca cctagtaacc gcagagcgcc tacctgccgc acctcggaac 3092243

cgcagagcgc ctacctgccg cacctcggaa ccgcagagcg cctacctgcc 3092293

gcacctcgga accgcagagc gcctacctgc cgcacctcgg aaccgcagag 3092343

cgcctacctg ccgcacctcg gaaccgcaga gcgcctacct gccgcacctc 3092393

ggaaccgcag agcgcctacc tgccgcacct cggaaccgca gagcgcctac 3092443

ctgccgcacc tcggaaccgc agcgcgccta cctgccgcac ctcggaaccg 3092493

cagcgcgcct acctgccgca cctcggaacc gcagcgcgcc tacctgccgc 3092543

acctcggaac cgcagcgcgc ctacctgccg cacctcggaa ccgcagcgcg 3092593

cctacctgcc gcacctagta accgcagcgc gcctacctgc cgcacctagt 3092643

aaccgcagag cgcctacctg ccgcacctag taaccgcaga gcgcctacct 3092693

gccgcaccta gtaaccgcag agcgcctacc tgccgcacct agtaaccgca 3092743

gagcgcctac ctgccgcacc tagtaaccgc agagcgccta cctgccgcac 3092793

ctagtaaccg cagcgcgcct acctgccgca cctagtaacc gcagcgcgcc 3092843

tacctgccgc acctagtaac cgcagcgcgc ctacctgccg cacctagtaa 3092893

ccgcagcgcg cctacctgcc gcacctagta accgcagcgc gcctacctgc 3092943

cgcacctagt aaccgcagcg cgcctacctg ccgcacctag taaccgcagc 3092993

gcgcctacct gccgcaccta gtaaccgcag cgcgcctacc tgccgcacct 3093043

agtaaccgca gcgcgcctac ctgccgcacc tagtaaccgc agcgcgccta 3093093

cctgccgcac ctagtaaccg cagcgcgcct acctgccgca cctagtaacc 3093143

gcagcgcgcc tacctgccgc acctagtaac cgcagcgcgc ctacctgccg 3093193

cacctagtaa ccgcagagcg cctacctgcc gcacctcgga accgcagagc 3093243

gcctacctgc cgcacctagg aaccgcagag cgcctacctg ccgcacctag 3093293

gaaccgcaga gcgcctacct gccgcaccta gtaaccgcag agcgcctacc 3093343

tgccgcacct aggaaccgca gagcgcctac ctgccgcacc tagtaaccgc 3093393

agagcgccta cctgccgcac ctaggaaccg cagagcgcct acctgccgca 3093443

cctagtaacc gcagagcgcc tacctgccgc acctagtaac cgcagagcgc 3093493

ctacctgccg cacctagtaa ccgcagagcg cctacctgcc gcacctagta 3093543

accgcagagc gcctacctgc cgcacctagt aaccgcagag cgcctacctg 3093593

ccgcacctag taaccgcagc gcgcctacct gccgcaccta gtaaccgcag 3093643

cgcgcctacc tgccgcacct agtaaccgca gcgcgcctac ctgccgcacc 3093693

tagtaaccgc agcgcgccta cctgccgcac ctagtaaccg cagcgcgcct 3093743

acctgccgca cctagtaacc gcagcgcgcc tacctgccgc acctagtaac 3093793

cgcagcgcgc ctacctgccg cacctagtaa ccgcagcgcg cctacctgcc 3093843

gcacctagta accgcagcgc gcctacctgc cgcacctagt aaccgcagcg 3093893

cgcctacctg ccgcacctag taaccgcagc gcgcctacct gccgcaccta 3093943

gtaaccgcag cgcgcctacc tgccgcacct agtaactgca gagcgcctac 3093993

ctgccgcacc tagtaactgc agcgcgccta cctgccgcac ctagtaactg 3094043

cagcgcgcct acctgccgca cctagtaact gcagcgcgcc tacctcctgc 3094093

acctagtaac tgcagagtac ctacctgccg cacctagtaa ctgcagagta 3094143

cctacctgcc gcacctagta actgtagcgt acctacctgc tgcacctagt 3094193

aactgcagag tacctacctg ctgcacctag taactgcagt gcacctacct 3094243

ttaaaggctt ttcaagaaca tacagagcat tttcaaaaac tgaccatgtg 3094293

ctgggaaatc aaataagtct caatttaaaa ggattgtaat cataaaaatg 3094343

tcctctgagt atatttcaat tatgttcaaa attaatttta aaaaggtaat 3094393

tggaaaatct tatgtggtta gaagtaacga aatatacttt taaatatccc 3094443

ttggatcaaa aaaaataaat cacaatggta tttagaaaat atttttcact 3094493

gaaggctaac aaaacactac atattaaaat tataaaatgc actttgcaaa 3094543

ggagtactta atataacctt aaataaataa atatttcata tatatatata 3094593

tatatatgaa gaaaggctga aaattaatta gccaaacatt atctgaagaa 3094643

gatagcaaat aaacctagag aaaaaagaag taaataataa ggaaaagagc 3094693

ataaattaat gccgcagaaa gtaactaaca gcggatcaaa aaatccaaat 3094743

attggttatt cgaaaggcta atacaataga ctaattaaga ctgatagagc 3094793

caggtgtgag gtaatcccag ttacttgggt ggctggggtg agaggatcgt 3094843

ttgaggccag gagtttgaga ccagcctagg ccacacagtg agaccccatc 3094893

tctaaaaaaa taaaataaaa aattaatgag acatggtggc atgtgccagt 3094943

agtcccatga aggctgagat gggaggactg cttgagccca ggagtttgag 3094993

gctggagtaa gctatgatca tgccgctgca ctccaacctg ggcaacagag 3095043

tgagacccta cttctgagaa aaaaaagaaa aaaaagactg acaaaaaagg 3095093

agacaagatt gaaatccatg aataaggagg aatcactata ggtcctgcag 3095143

acatcaaatg ttattaagag aatattatga acaacttttt gttaattatt 3095193

ttaaaattta ggtaaaatgg accaatgtct ttaaaaagtt caatttagca 3095243

aagctaactc aaatagagat agaaacttag aatattcctg taactattaa 3095293

aagaagcagt gataaaaaaa gaaaacttcc tatagagaaa accccacaga 3095343

gagcttcatc aatgatttct gccaaatatt caatgaagaa attatgtcaa 3095393

tcttatacag ttttctctag ataatagaga agagagaact cttccagatt 3095443

cactttgtgt aagcataacc ttgattccca aaactggaaa ataaggtaca 3095493

agaaaggaaa attacagacc aatcttgttt aacagtatag atgcaaaagt 3095543

tctaaataaa atactataaa caaactcaat tcatcaaaga acaaacgcaa 3095593

aattcggttt ctgccaagaa tgcaaagtta gtttaacttt atgaaaatct 3095643

gtcattataa tttattacat tgtcttctta aatgagaaaa agatatatct 3095693

tttcaataga tgcagataaa tctgttgata aaatgtaatg tttattcatg 3095743

attaaaaatg ctagcaagtc agaaaagaaa ttccttttct gataataagg 3095793

tatcttgaaa cgaacagaag ttttgtactt attttaacaa aatgttaaca 3095843

gccttttttt ttttttttg aggcaaggtc ttactctgtt gcctaggctg 3095893

gagtgcagtg gcgtgatcac ggcttactgt atccttgacc tcccaggccg 3095943

aagcaatcct ctcacctcag ccccctgagg gaccacaggc atgcaccacc 3095993

atgcctggct aatttgtatt ttttgtagag acaggatttt gccatgttgc 3096043

ccaggctggt ctcaaactca tgagctcaag ccatctgccc tcttcagctt 3096093

cccaaagtgc tggaattaca aggcatgagc cactgtgtcc agcccacctt 3096143

tctctgaaat aatatgcaag accaagctac ttaccacccc tatttctggt 3096193

cagcctggta ctggaggccc tagctatttt agtagagcaa gaaaaagaaa 3096243

gaagagatat aggattggaa aagaagaaac aaaactgttc ataggttata 3096293

ggatgtgtac atagaaaaac tcaaaagtat cttttaaatt aataatagtt 3096343

tagttataaa aatcaatata taaaaataaa tcttacaaaa ggtatgtagt 3096393

aactctaaaa gtataacctt aattgagaga cataagacca aagtaagtga 3096443

agaaatatac catttacttt gtgattcgga agtcaccata gtacgaagat 3096493

gtcagctctt ctcaaattga tctatagaat caatgcaatc tcaaccaata 3096543

tctcaagttt ttttttttt ttttttttt ttttgagaca gagtctcgct 3096593

ctgtctccca ggctggagtg cagtggcatg atctcggctc actgcaagct 3096643

ctgcctcctg ggttcataca attctcctgc ctcagtctcc tgagtagctg 3096693

ggactacagg cgcccaccac cacacccagc gaatttttt ttttttaat 3096743

agagacggtg tttcaccgtg tcagctaaga tggtctcgat ctcccgacct 3096793

cgtgatctgc ccgtctcagc ctcccagagt gctgggatta caggtgtgag 3096843

gcaccgtgcc cagccaagta ttttgttttg ttttgttttg tttttgagac 3096893

agagtcttgc tctgttgccc acgctggagt tcagaggcgc aatctcggct 3096943

cactgaaacc tctgcctccc gcgttcaagc aattctccta cctcagcctc 3096993

ccgagtagct gggattaaaa gcgtgcgcca ccatgcccgg ctaatttttg 3097043

tatttttagt agacatgggg tttcactatg ttggccaggc tggtctcaaa 3097093

ctcctgacct caaatggtcc gcctgccttg gcctcccaaa gggctgggat 3097143

tacaggtgtg agccaccacg cccagcctat atctcaacct tttagttttg 3097193

tgtgtgtgtg gcaagtgggt gtgaggagtg gaacttgaca aacctactct 3097243

gaaatccata tgaaaaggta aagaagagaa taagatcagc caggatgccc 3097293

ttgaagaagg acaagactag tagtgaaggg tttgccttat cagattcttg 3097343

tcaagaatta ttataaagct atattaaaaa gacagtggta ttggtgtagg 3097393

ttggacagat actgttggaa tggagttgaa aacccataga tctacacata 3097443

cctagaaact tgattttcac agagatggca ctgtagagca gtggggaagt 3097493

gacagtcttt tcagtaaatg gtgctgagac aactgggtat ccacatggta 3097543

cagaaatgaa attgggcttc taccttacac cataccaaaa aatcagctcc 3097593

aggttgatta ctgacagaaa tgtgaaagat aaaattataa agctattgga 3097643

aaatatagga gaatttgtcc atatcctcag ggtaggggat cctcaacagt 3097693

atacaaaagc attagctgta gtggtaagaa ctgataaatt ttaaaattta 3097743

taaaatttta aatgaatgtt taaaacgaat ttataaacga attcattgta 3097793

aaattctata aattatttat aaataaattt atacatttat aaatttagaa 3097843

gatttttaaa tgaatgtata cattcatttt aaaactttta ttcatcaaaa 3097893

taaaccatta agagaatgga ggcagggcat ggtggctcat gcctgtaatc 3097943

ccagcacttt gggaggctga ggtgggagga tcgcttgagg ccaggagttt 3097993

gagactagcc tgggcaacat agtgagacct cctctttaca aataataatt 3098043

aagaaattag ctgggcgtgg tggtgcccac tttcggtccc agctactcag 3098093

gaggctgaga tgagatgact gcttgggccc aggaggctgc gccattgcgc 3098143

tccagcctgg gttactgaat gagaccccat ctccaataaa taaataaata 3098193

aataaaccag tcacagaatg ggagaagtgc aacacacaca taactgacaa 3098243

aggacttgaa tacataaaat ctagagaaat tgtataaatc ggaaaggaaa 3098293

agatatgcaa cccagttaaa acagggatga aatagctgaa tgggcacttc 3098343

accaaagaga ataaatacac caaaaaagtg cacaacttta ctggtaatta 3098393

gagaaatgca aattaaaacc acaataagat aatatgtgtc taaacattgg 3098443

caaatatggc aaggcttttc taaacaacat gaaataaatc caaataaaca 3098493

gtgaaatgtg tttatggatg gaaagacttg acatactaaa gctgtctatt 3098543

ctccccaaca tgatttataa aaggagtgca atcctaatta aaagcacaac 3098593

caaattcttt atggaattca acaagctgac tcttaagtta cacaaaatgt 3098643

acaaagatag ctaagaaaat tctgaaggag gagatcagaa cagtgtagac 3098693

tacagcaagg ataatcaaat agattaatag aaaaggtgag tctttgcagg 3098743

ttgggttttc cagaagcagc cactgagttg gagattgggg tgcaaggaag 3098793

gagtgggaag caggaatgag cagaggaaga agtcagaagg caacgaagcc 3098843

tgacagctct ggcagccggg agcactgagc aaatgcccct caggcttgtc 3098893

ccacgtcaga ctgaaatggc caaggcttta tcccctcgcc tttctcagtc 3098943

actggctcag aaggggagta cctggggcaa aggagttcac agctgcaggc 3098993

tgtttgttca ctcagctcct tgcaacaggg cagcaaatcc ctccttgagg 3099043

gggaatctga gaggcccatc actgtgtcta ccacaaagtc caaaatcaat 3099093

ccatgtatgt ttcttaagcc acacacaaaa ttcgcaaggt ataaagaaaa 3099143

agattattgt atatgacttc atgaaaatgg aaaggtagtc aaaaaggaga 3099193

aattgtgttt agcaaaggat taatatccag gatatttaat agagtgccta 3099243

caaataaaaa acaaaaatag gccgggtgcg gtggctgacg cctgtaatcc 3099293

cagcactttg ggaggccgag gctggtggat cacgagatca ggagatcgag 3099343

accatcctgg ctaacatggt gaaaccccat ctctactaaa aatacaaaaa 3099393

attagccagg cgtggtggca ggcacctgca gtcccagcta cttgggaggc 3099443

tgaggcagga gaatggtgtg aacccaggag gcggagcttg cagtgagccg 3099493

agatggagcc actgcactcc agcctgggtg acaaagtgag actccgtctc 3099543

aaaaaaacaa acaaaaaaac caaaataaaa gaaaaataat agacaaagaa 3099593

catagacaat tcaaaaaaga aactgaacaa catacttcag aaaagatatt 3099643

tggcctcgcc aacagagaaa ggcaaaatga acccgttaca atttttcatc 3099693

cattagattg aaatttttga aagattagtg atacagtgtg ttggtgaaaa 3099743

tgcagaataa caagcagtct tctgcagtgt tggtaagagt ggcgaagttt 3099793

attagaaggt gaggcaccca acaaactcca caagcccata agtttggctg 3099843

cagttctact ctcagtaatc tatactgctc acgtgcactc aaagatgtag 3099893

tttccattct ttgcacctta gtttataaga gtgaaaaatt agaaacaact 3099943

caaatgtcca taagtaactg ccctaaatta tgattcatct aaactacaga 3099993

atactaatag ccatttaaaa gaaagaggtg gaaactaaca tgtaatgata 3100043

tagaaagatc ttcaagatta gctgttagtg aaaaaaataa gtcacaaaac 3100093

aatacttaca gtgtggtcct tttaatgtta aagatatata tattttggcc 3100143

tggtgcagtg gctcatgcct gtaattccag cactatggga ggcggagttg 3100193

tacagatcac ttgaggtgag gagttggaga ccagctggcc aacatggtaa 3100243

aaccccgtct ctactaataa tacaaaaaaa actggccagg tatggtggtg 3100293

catgtccata atcccagcta ctcaggaggc tgaggcatga gaattgcttg 3100343

aacccgggag gtggaggttg cagtgagcca agattgtgcc actacactcc 3100393

atcctgggca acagagtgaa actgtgtctc aaatatatat atatttctgg 3100443

aatgtgtgtg caaattccta gagagagaat aagagtgata tgcatcacac 3100493

tctggataag gcttacctct agagaatgga agagtaggtg ctgaaggaat 3100543

gtttggatgt tattctatgt gattctgcat tgtttgaatc tttgggggtt 3100593

tttttggttt tctttttgag acggtcttac tctgtcaccc aggctggagt 3100643

gcagtgacac aatctgggct cactacaacc tccacctccc gggttcaagt 3100693

gattctcgtg cctcagcctc ccgagtagct gggattacag gcgtgtacca 3100743

ccacacccag ctaatttttt tgtactttta gtagagatgg ggtttcacca 3100793

tgttggccag gctggtcttg aactcctgac ctcaagcgat ctgctcgcct 3100843

cggcctccta gagtgctggg attacaggcg tgagccacca tgtctggcct 3100893

gtttgaatct ttcaaaagga ctttgtactt aacatatttg tgtaataaaa 3100943

ataactataa aaagaaaatc aatttgataa aattaaaata acaaaaatac 3100993

ttttcatatt aggctaagca gggtggctcg tgcctgtaat ctcagcactt 3101043

tgggaggctg aggtgggtgg atttcttgag gccagttcaa aaccagcaac 3101093

atggcaaaaa ccgatctcta caaaaaacac aaaaattagc caagcgtggt 3101143

ggcgcatgcc tgttgtccca gctacacagg aggctgaggt ggcaggctct 3101193

cttgagcctg gaggttgagc ctgcactcta gcctggagga cacagtgaga 3101243

ctctgtctca agaaaaaaaa caacaaaaaa ccctttttcat gttaattaaa 3101293

aacaataaac atacagctgg gtgaggtggc tcatgcctgt aatcccagct 3101343

ctttgggagg acaagctggg aggattgctt gagcccagga gttggaggtt 3101393

tcagtgagct atgaccatgc cactgcactc ctgcctgggc gacagaggca 3101443

gatttgatct ctaaaaataa acatgcaaag agacaaaaac aatatataga 3101493

atgctacaaa gtgtgaacat aattaatacc ctctgtcatt ctcccctaga 3101543

tcatgcatgt attcatttag ctagtatttt tgaccactta tttatatagc 3101593

agacaatcgt taacagcaaa atacaaataa aactaggaaa aaaaaaactt 3101643

gaaggaaaaa taccaaagtg ttaacatttt atctttgggt gtagggcaaa 3101693

actatggata ggttttaaga atatataatt ttctatgttt tctataatga 3101743

ggattattgc tcctataagg aaaaagtttt ttactgtggc aaaatatact 3101793

taacataaaa ttctctattt taaccatttt taagtgaaca atccagtggc 3101843

attaagtaca ttcataatgt tgtgcggcca ttaccactat ctatatctag 3101893

aacttttta tcatcccaaa ctgaaactct gtacctgcta aacggtaact 3101943

ccccattcct ccctctccca gcccctggta gcttctattc tgttttctgt 3101993

ctctgaattc taggtagctc ctagcaaaag gatcacacaa tgtatttcct 3102043

ttggagtctg gcatatttca cttagcataa tgttttcaag gttcatctgt 3102093

ttcatagcat gtatcagaat ttcattccct tttatggctg aataacattc 3102143

catcatatgg atatacaggt tgaacatccc taaacccaaa atccaaaatt 3102193

caaaatcctc caaaatctga aacgttttga gtgccagcat gatgccacaa 3102243

gtggaaaata ccacacctga cacctctgct ttctgatagt tcagtatcct 3102293

caaactttgt ttcatgcaca aaattattaa aatatggtat aaagtgacct 3102343

tcaggctatg tgtataaggt gcatatgaaa cacaaataaa cttcatgttt 3102393

agacttaggt cctctcccca cgatctgtca ttctgtacat gcaaatattc 3102443

ccaaattgga aacaatccaa aatccaaaac acttctaatc ccaagcattt 3102493

tggataaggg atactacacc tgcaccatat tttgagttcc tgccttcagt 3102543

tctttggggt atatatatcc gggtgtggaa ttgctagatc atatggtaat 3102593

tctatgtata acttttttgtt tttctgagac agagtctccc tctgttgccc 3102643

aggctggaat gcagtggcac catctcggct cactgcaacc tccgcctccc 3102693

gggttcaagc gattctcctg cctcaccttc ccgagtagct gggattacag 3102743

gcatacacca ccacgcccgg ctagtttttt gtatttttag tagagatggg 3102793

gtggtttcac catgttgtcc aggctggtct caaactccta acctcaggtg 3102843

atctgaggtc ccaaagtgct gggattacag gcgtgagctc ccatgcccgg 3102893

ccatgtttaa cttttaagta ctgttaaaat tgttttacat ggtagctaca 3102943

ccattttata ttccccacca gcaatgcaca aggattctaa tttctccacc 3102993

atcttaccaa cacttttttat ttaccatttt tatattatag tcactctaag 3103043

gagtgtgaaa gtgtacctca tggtggtttt gacttgcatt tccctatgac 3103093

tcatgatgtt gagcatcttc atggcttatt ggccatttgt atatcttcta 3103143

tggagaaact gctattcaag ttctttgccc atttttgaat tgggttgttt 3103193

gtttttttgtt gttgagttgt aggatttttt ttttttatgt tctggatttc 3103243

atccgttttc agatatatat tgtttgcaac tttttcccca ttattttatt 3103293

ttatttattt atttttttttt tggagacaga atcttgctct gtcgccaccc 3103343

agactggagt gcagtggcag aatgttggtt cactgcaacc tctgcctccc 3103393

aggttcaaga gataactcct gcctcagcct cccgagtagc taggactaca 3103443

ggcacacacc atcatgcctg gttagttttt gtatttttag tagagacaag 3103493

gtttcaccat gttggcctgg caggtctcga actcctgacc tcatgggatc 3103543

cacctgcctt ggcctcccaa agtatttttt ccttattctg taggttatct 3103593

ttttactctt ttcatagtat cctttgatgc acagaagctt ttaattctga 3103643

tgtattattt ttactcttta cttttgtttg tgcttttgtg tcataaccaa 3103693

gaaatcgctg ccaagtccaa tgtcatgaag ctttttccct gtgttttctt 3103743

ctaagaattt ttgtggcact agcccttaaa ttaagtcttt gatccattgt 3103793

gagttaattt ttatatggta tgaaataagg gtccaacttc attatttcat 3103843

atgtgtatat tcagttttcc cccatcgaat gctcttggca accttgtcaa 3103893

aaatcaattg gccatttata ggagggttta ttcctaggct ttccattctg 3103943

ccccactggc atatgtgcct gtctttatgc cagtcctacg ctgttttgaa 3104993

tactgtagct ttgtagtaag ttttgaaatc aggaagtgtg agtcctacaa 3104043

ccttgttctt tttaaagatc attttggcta tttgggaaaa acattaattt 3104093

taaaaaatta ctacttgtaa gatctgtgtg aaatttctac cttctgaaaa 3104143

tatgaattct tctcgttaaa attttctggg actctatttc ctgctgttca 3104193

ctaaagtgtg tatttatgct cttaattata gAAAGAGTAT TCAAACGAAA 3104243

ATGCAGTTGT GAAGAGAATG CAGTCTCTTC AACTTGATTG TGTGGCAGTA 3104293 M318fs L321R D324H D324N D324Y D324V D324G C325R

CCTTCAAGCC GGTCAAATTC AGgtaaatta cactatggtc aaaatctatt 3104343 S333*

catttatttg tttggttact cattcactcc actctctaaa agactattca 3104393

ggaccatatg ggaaacagaa gaaactataa aagtgaacac ctgccttaca 3104443

ggaatttata ataatattcg agagtcaagt tacatgtatt tgaaatatga 3104493

agtaacagtg tgctcaccag tcatagagtg ttctgaacaa aaggcctaat 3104543

atatctgatg gggagaagtg acagttcaga agaaggaagg ggacatatgt 3104593

gagagcaaag tccctgagga gctcggagtg acttacagcc agggtacaag 3104643

cagagaggct ggtctcaggt caagtaggga tacttttttc actgtaacaa 3104693

aagggatggc agagtatagg atactgaagc cgcttagcta cctgatctgt 3104743

ggctaattac ttaacctctt ctaaacttca ctcatcaaat cataattgct 3104793

cctcctctca tagggctctt caagaatgaa agaattcatg ggacatgctt 3104843

aggacagagc tgctgcagat ctttttttt tggagacaga gtctgtcacc 3104893

ccggctggag tgcagtagtg tgatcttggc tcactacaac ctccgccttt 3104943

caggttcaag cgattcttct gcctcagcct cccaagcagc agggattaca 3104993

ggcatgcacc accatgcccg gctaattttt gtattttcag tagagatggg 3105043

gtttcgccat gttggccagg ctggtctcga actcctgacc tcaggtgatc 3105093

cgtccgcctc agcctcccaa cgtgctagga ttacaggcgt gagccaccgc 3105143

acccagccac agatcttatt ttccacctga attgctccaa ggagacaacc 3105193

accttctctg ctccaaacca agtccctttt ttccttgatc atccctgcaa 3105243

cagccgcttt tctcttgctt gctataattt tcctagtact ctcttactgc 3105293

cagcgaggag ctcctattat tatttgtaaa gcttgtggga agaggaccat 3105343

ctcctaaatg ctttggactg gtctcgtact tgttttctgt gtgttacttt 3105393

gagatacaga ttcatgacgg cgctcagatt ttattttact ttttaatgtt 3105443

tcatgacacc cattctaatg ttgatcattt cttctcagCC ACAGAACAGC 3105493

CTGGTTCACT GCACAGTTCC CAGGGACTTG GGATGGGTCC TGTGGAGGAG 3105543

TCCTGGTTTG CTCCTTCCCT GGAGCACCCA CAAGAAGAGA ATGAGCCCAG 3105593

CCTGCAGAGT AAACTCCAAG ACGAAGCCAA CTACCATCTT TATGGCAGCC 3105643 K377E R390G

GCATGGACAG GCAGACGAAA CAGCAGCCCA GACAGAATGT GGCTTACAAC 3105693

AGAGAGGAGG AAAGGAGACG CAGGGTCTCC CATGACCCTT TTGCACAGCA 3105743

AAGACCTTAC GAGAATTTTC AGAATACAGA GGGAAAAGGC ACTGCTTATT 3105793 Y426*

CCAGTGCAGC CAGTCATGGT AATGCAGTGC ACCAGCCCTC AGGGCTCACC 3105843

AGCCAACCTC AAGTACTGTA TCAGAACAAT GGATTATATA GCTCACATGG 3105893

CTTTGGAACA AGACCACTGG ATCCAGGAAC AGCAGGTCCC AGAGTTTGGT 3105943

ACAGGCCAAT TCCAAGTCAT ATGCCTAGTC TGCATAATAT CCCAGTGCCT 3105993

GAGACCAACT ATCTAGGAAA TACACCCACC ATGCCATTCA GCTCCTTGCC 3106043

ACCAACAGgt aaatgggtct tcgatagtca caagcttgtc ttttttttatt 3106093

tttcagaaaa tacagcaacc aagcagctct attatagatt gtgggttata 3106143

atggggacag agggcatcat cagctgccag atgcaaattg cccctgtgga 3106193

atggaccctg ccaaaccact tggtctggga gtatttcatc tggggctagg 3106243

attcatcaca gatgcccgca agcatcgggt tacaggtcct tgtgactggc 3106293

aggcatcttt gactctaacc tggagtgcat agtagtccta tttcacccaa 3106343

tctctgataa atgggaagtt atctgcttat ttgcttttac cttgcttgct 3106393

acttttgaa ggtaagaaat cagtcttgga tatttttgtt tctgacctta 3106443

tatagctcaa agactaccat tagtgatgaa aaattttctt ttaactccca 3106493

tatctctatc aggtgaagta aaaggtaggt gatagtagtt actggcagtc 3106543

tagaatggaa gtgagttaat gtaatatcca gcatttttat caaataatac 3106593

tcaccaacat caccttaact acctgaacag catctaccaa tgatacccac 3106643

aggtgtcctg gagatcttga aatcatctca ggtagaggaa gctttcagaa 3106693

ccacagagct tagttacatt ttctttcaaa aggccaaatt ctccaaaaac 3106743

gtcctatgca aacatcctcg atttcttcca taggttttat gataagatct 3106793

gtagaatgca aaatattgga ttagacatta agcagtatcc aagtcatgta 3106843

taatcctatg agcagaatgt ccttttgttt ccttcatgtt ggggataaaa 3106893

ttttttatta gtattgccat atcattttat tcattcatga ttaagtcaat 3106943

aaaaatttca gctggggcca tggttggcca ggtgtggtgg cttatgcctg 3106993

taatctcagc actttgggag gctgaggtga gtggatcact tgaggccagg 3107043

agttcgagac cagcctggct aacatggtaa aaccctgtct ctactaaata 3107093

atacaaaaat tagccaggcg tggtggcgca tgcctttagc cccagctact 3107143

agggaggctg aggcaggaga atcacttgaa ccctggagac agacgttgca 3107193

gtgagctgag atcatgccac tgcactccag cctgggcaac agagtgagat 3107243

tgtgtctcga aaaaaaaaaa aaaattccac tggctgggca cagtggctca 3107293

cgcctgtaat tccagcactt tgggaggccg aggtgggaag atcacgaggt 3107343

caggagattg agaccatcct ggctaacacg gtgaaacccc gtctctacta 3107393

aaaatacaaa aaaaaaaaaa aaaaagctgg gcatagtggc gtgcgcctgt 3107443

aatcccagct acttgggagg gtgaggcagg agaatcactt gaacccggga 3107493

ggcagaggtt gcagtaagcc gagattgcac cactgcactc cagcctgggt 3107543

gacagagcga gactgtcgca aaaaaaaaaa aaaaaaaaaa aaaattccaa 3107593

aactcttccc actttgtgac gtgcagttct ccaggcactg gagctataac 3107643

tgaacaaaca gcctgagtcc cttccctcac acagtttaaa tcctagtgga 3107693

cagaaggcag accctaaacc aatatttaat gtgtcatttt ttatcttttt 3107743

tctacatgag caacccaaat acacccgttt agtgccagaa atctctttgt 3107793

gttttcacct cgttctggtt cctggttctg ccagtgacag atgtacaggg 3107843

atgcagcttc ttcagggttc tgagatgctt tcagtgggaa aggggcgctt 3107893

ggatctacaa tagataatag aattttctgt gtttctgctc ccaaagatga 3107943

tcctgccagg tactaagcta gtaaatgaac acgctgagtt tctccttgca 3107993

aatttaaata agtcttctgc ttgcttttat catcaaaaag tcctaactct 3108043

ataccaaaat atgagttttc taatttgcca taccatagaa gaagggtgtg 3108093

tatgcagtaa gtacaaaagg aaaataaatg tcttcctttc agtgaaagag 3108143

ctcttagacc cactgctttt tattcactgt gctgcttgaa gtgaggttag 3108193

aaaaggaaag ctcactgggc taagagtcag gagacccagg tctagtcctg 3108243

cttgtgccgg tcactatatg ggtgactttg ggaaagtcat ttgcctctcc 3108293

agagttcatt ctcctcaatt ataaatgaaa atgttacaac tgaaaattta 3108343

tatattatca gctctagtat gtttctagta ttgcattcgt ttctccactt 3108393

cgtaactttc atggtttttc cagtggtcag atttgggcag aaagcactga 3108443

ttcaagaaca cagatttcca agtagagagg tgcagggtaa ataaacctcc 3108493

atgtaagccc gcggtgagcg cagactgtga gtgacgaaca cggtgtcagt 3108543

gtaagctgga ggtggtgggc caggaggatt aaacagggta aggcagctta 3108593

ccactgtgcc tggcgatgcg cagagtaagt gctcagtaaa cggtagctgc 3108643

tgttattagc actgttatta tcattgtcag caaagaacac ctagacagcc 3108693

ttgagcactg gaaggcacct cagagactgt cacaggggtt ccttgctagg 3108743

attccaagga ccccagtttc agcagcttca cgaacaccct gaattgcaca 3108793

cagatggcgt gtgtgtgcac atcctatatt tcttacacct ttcagtagag 3108843

agggtcccta gtttccttgg cttcctcaga gaaaatgtaa caaatgagca 3108893

cagtgcctgg tccagagggt ggcctacctt agggccaggt gtgctgacgg 3108943

aggtaccttg agctgatact catttccctc cctcctcaga actgtcttct 3108993

caaccacctt ctctctccta caaagatatg ccaagtgctc tttagggaca 3109043

gtaccaacac ttgacaaatt cagctcagca tgaatgtcat tgagcccatg 3109093

ccccgtacca aggcccaggc tagcgagtgt aaggagtaca aaaacaagtg 3109143

ggtgtggtcg ctgcccttgg gactcacatt ctagtggaga agtcaaacag 3109193

acccagctca gatacagagc ggcgcagggc agagtgctga gtctaggatt 3109243

acagtgcagg ctcatggaag gaggtggaat ttgtgctggg cctatgtcag 3109293

aaactcacaa gcagggagaa gcacgtgggg aggtcagcag tccaggcaga 3109343

ggcaggagca tcatgtcagc agatcggtgg gaaatctggt gggactggag 3109393

tctctggagt ggagacaggg aggaaacagt gaaaggaaga tcagagacaa 3109443

gagggtaggg cagagctgtg gctagcttct gaatactgaa cctgagaggt 3109493

ttgagtttat caggtaaagg aggaggaccc ttcacagatg ctgttcagag 3109543

tcgtgggatc ccgctgggaa gtgtggctga gctttgctgt gttgttcatc 3109593

cacttctgtt ttctgacttg gtgttagcca cattttttta tggtaaaatt 3109643

caaaaacata aaatttacca tttcaaccat ttttacagtg gcattatcta 3109693

acattcacag tgttatgcaa ccatcaccac catctatcta tataactgtt 3109743

ttaatcttgc aaaactaaaa ctctgtatcc attaaacacc aactccccag 3109793

ctcccctccc agccccggac aaccaccatt ctactctctg tttctgtgac 3109843

tctgaccagt ctaggtacct catgtgagtg gaaccatgca gcatttttct 3109893

ttgtggctgg cttcattcac ttaggaaatg tcctcaagct tcatgcatgt 3109943

tgtagcatgt gatgtgattc ccttcctttt caaggctgac tattccattg 3109993

tgtagctaga ccacagttgg gttatccact catctgctca tgggtgcctg 3110043

gcttacttcc acctttttagc tattgtgaat aatgctgcag tgaacacgtg 3110093

ggtagaaata tttcttcaac accctgtttt agttcttttg ggtatatact 3110143

cagaaacgga attgctggat catatggtaa ttctatcttt aatttttttg 3110193

aagaatcacg attttttttt ttttttttt ttgagacaga ctctcactct 3110243

atcaccaggc tggagtgcag tggcacgatc ttggctcact ctgcaagctc 3110293

cgcctcctgg gttcaagtga ttctcctgcc tcagcctcct gagtagctgg 3110343

gattacaggc acccaccacc acgcctggct aatttttgta tttttagtag 3110393

agaaggggtt tcaccatgtt ggccaggctg gtcttgaact cctgacctca 3110443

ggtgatcacc tgcatcagcc tcccaaagtg ctgggattac aggtgtgagc 3110493

caccgcacct ggcccactat actctttata ggagcagctg caccatttca 3110543

cattcccacc agcagtgcac aagggcttca ttttttccac atctttgtca 3110593

atatgtgtta tttctttttt ttttttaat cataggcatc ctaatgggta 3110643

tgaggtggtt tagccagatt tgaaagaaga aaagtttaaa gggtggcata 3110693

ggataattaa cttaatgttt ggcataaagc cctgcttttt tgccatgctg 3110743

tatttttttc tcttgctttt gatctagaat tacttacctg tgtgtttctc 3110793

tctatgcagA TGAATCTATA AAATATACCA TATACAATAG TACTGGCATT 3110843 T537A

CAGATTGGAG CCTACAATTA TATGGAGATT GGTGGGACGA GTTCATCACT 3110893

ACTAGACAGC ACAAATACGA ACTTCAAAGA AGAGCCAGCT GCTAAGTACC 3110943

AAGCTATCTT TGgtaagata ccctggaagg actcaacgcc tagcaacctt 3110993

gaactttctt acttgtgaga aggacatagt ggaatcttaa aatttctctg 3111043

ataattcttc ttgaaagttt tcttatgtta cttctgcaaa atatctttgt 3111093

aatttccata taattccttt gtcatttatt tatttttaat atggagataa 3111143

tcacagtatt taatttatgg atttgttgtg aaaattaaat gagttgatat 3111193

gtataaaaag cttagaacac tgcctggcac atagtaagtt ctataaaaag 3111243

tgttaaactt tcatcatcat catcatcagt attacttctc agacccagaa 3111293

gaaatagctg tgtcaggccc tcatcgaagg agatcctgta aaagatagaa 3111343

gactgtgccc tccacagcac ttctgtaata aaatcaagag ggctatctct 3111393

tatagggttc tatggtgcag cccataatgc taatcccaaa gtacagtctg 3111443

gaaaaagtca tgaggccaaa acgacttgat taagaactca gctttctaat 3111493

taaccatggg attggcgctt ttttttttt tttctgtaaa ggaaccaata 3111543

gtaaatgtta ggccctgctg gctttgaggt ctcttggaac tactcacctc 3111593

tcttattgta gtgcaaaagc aaccacagac aatatgtaca tgaatgagca 3111643

cggctgtgtt ccaataaaag tggatttaca aatgctggca ggagtcagat 3111693

ttggcccaca ggccatagtt ggccaacccc tggtctaacc catttgaagg 3111743

acagctttta aaatacctag aacagaactt gcgaatggtc aggggcacct 3111793

gtgagaatct aatgaaaccc aggatctacc ccctacagaa atattgacaa 3111843

aatttggaaa atatcttggg aagttcttgg actgctgaca atctataaga 3111893

tatggataga gagagagcca catcacagag ggctgaggaa agaagagagg 3111943

tgggaaggaa gaatgaaatg ttttcttcct tatattctgt ttaatgaggt 3111993

agtgtgggga ttaaggaatt ttttttgttg tggttgttgt acattttcat 3112043

ttgtttcctt ttattatttt tatgaagggc gaagggaagg aaccagtaga 3112093

aggagagagg ttatggctat tggagaagag gcaatgtcgg tcggcagtgg 3112143

ggtggagtaa aggaggggtt agggtccaaa aacagacctt gaagagtata 3112193

gttacctcgt cgcttgaaag acaaggaagg ctttgtaact gaatgggttc 3112243

acgcctgctg gacaattcct tgattaagta agaggaaagt gaactgttgg 3112293

gccggggtgg tggtcaggag ttgagcggct ttaactctgg ccagatgtaa 3112343

gcggagaatg tctaaaagga acaaaaatgg tggttttccc tttacaccca 3112393

ggaaggtcta ataccaacag gatcactggc taagattgac tagaacaccc 3112443

aacctcgtag ccacacaggg gttttgttca cagagccatc agctgtggct 3112493

cagggatgtg tctactagga ggaaggaatg ccttattctt ttttgttttg 3112543

tttttgagac aacatcctgc tctgtggccc aggctgaagt acaggggcac 3112593

agtcatggct cactgcagcc tcgaactcct gagttcaagt gatcctcctg 3112643

tctcagcctc ctcagtaact gggactacag gcatgtgcca ccatacccag 3112693

ctaattaaaa aaaatttttt ttttggtaga gacaggttct tgctgtgttg 3112743

cccaggactg gtctagaact cccgggttca agtgatcctc ctgccttggc 3112793

ctcccaaagt gttgggatta taggcatgag ccaccacgcc aggccgggaa 3112843

tgccctattc taattcacat aaagactcca tgtgggctag caggcatgtg 3112893

aaatgtctgc cagtgcatca acagctatat aactaagaag ttatcttttt 3112943

cactgtcttc tggtactctt catttcactt gggtttttta gcaattcagg 3112993

aagctggaat gtttgaatgg gttttagctt gataccttct tctttttccc 3113043

atttggcagA TAATACCACT AGTCTGACGG ATAAACACCT GGACCCAATC 3113093

AGGGAAAATC TGGGAAAGCA CTGGAAAAAC TGTGCCCGTA AACTGGGCTT 3113143 C601Y

CACACAGTCT CAGATTGATG AAATTGACCA TGACTATGAG CGAGATGGAC 3113193 I615T

TGAAAGAAAA GGTTTACCAG ATGCTCCAAA AGTGGGTGAT GAGGGAAGGC 3113243

ATAAAGGGAG CCACGGTGGG GAAGCTGGCC CAGGCGCTCC ACCAGTGTTC 3113293 T645M

CAGGATCGAC CTTCTGAGCA GCTTGATTTA CGTCAGCCAG AACTAACCCT 3113343

GGATGGGCTA CGGCAGCTGA AGTGGACGCC TCACTTAGTG GATAACCCCA 3113393

GAAAGTTGGC TGCCTCAGAG CATTCAGAAT TCTGTCCTCA CTGATAGGGG 3113443

TTCTGTGTCT GCAGAAATTT TGTTTCCTGT ACTTCATAGC TGGAGAATGG 3113493

GGAAAGAAAT CTGCAGCAAA GGGGTCTCAC TCTGTTGCCA GGCTGGTCTC 3113543

AAACTTCTGG ACTCAAGTGA TCCTCCCGCC TCGGCCTTCC AAAGTGCTGG 3113593

GATATCAGGC ACTGAGCCAC TGCGCCCAGC CAACAATCCG CTCTGAGGAA 3113643

AGCGTAAGCA GGAAGACCTC TTAATGGCAT AGCACCAATA AAAAAATGAC 3113693

TCCTAGTTGT GTTTGGAAAG GGAGAGAAGA GATGTCTGAG GAAGGTCATG 3113743

TTCTTTCAGC TTATGGCATT TCCTAGAGTT TTGTTGAAGC AAGAAGAAAA 3113793

ACTCAGAGAA TATAAAATCA ACTTTTAAAA TTGTGTGCTC TCTTCTTCAC 3113843

GTAGGCTCCT GTTAAAAACA AAGTGCAGTC AGATTCTAAG CCCTGTTCAG 3113893

AGACTTCGTG GATCACAGCT GCAGCTCACC GCCACATCAC AGGATCCGTT 3113943

AACGTTAATA CCCAATACTC TGTCAGCCAC TGTAGGCTCT AAGAACCACG 3113993

TGCAGTCTTC AGCCCATTAA ATTATCGATT ATTTTTTAAT GAATTGAATT 3114043

TATATTGAGT CTTCAAATTA ACTGAATGGA TTTAAAGGGG TACCAAGGAG 3114093

GGGGGAAACA TCAGAATTTC CCAGGCAGTT GTTGCAAGGA ATTGGTACTA 3114143

ACCGTGACTA CAACAAAAAT TCTTGATTGA CTTTTAAAGT TATTTCCTGG 3114193

CATTCTGGTA CCTTCACCCA GCCTGAGTGC CCTGGAGAGG GAACAGGAAA 3114243

TGCTGATCTC TACCCCTGGG TGAGACCAGA ACCTCAGGGC TGATACTGTT 3114293

GAGTGGCTTC CTCGGTTTAC TCTGTGTACT GTGAAAGTAT TTTCATATTT 3114343

TTTCTGTGTG CCAGAGTGAA AAAGGACAGC TTCTGAGTGT GGTAATTGTG 3114393

CCTCTAGCAC CCAGCCTTTC AAAGCCCACC TGAAACCTGG GGGTGGATGA 3114443

AAGAACTAGA ATAGAAGACT GAAGCTGGGT AGGCCGCTCA GTGTCCACTG 3114493

GCATTTTGCT AAACCGACAA GGAAGGCTGT GTGCTTAGCT CTCCCCAGAG 3114543

GGAGGGCGAG AAGGGTGTGG TGATGGTCAA TCTGGCTGTC GGAACAGATT 3114593

CTGGTGTCTT GGGCTGATAA CAGTGTTGTT GATTCTGATT GTGAATCCCC 3114643

TCAACTCTAG CAGACACATA CACACCCCTG AAATGGGGCT GCAGAGCAGG 3114693

CTGTCTCAGC CTTGCCACTG TCGGCATCTC GGCCTGGGTA ATTCTGTTGT 3114743

GGGGACTGTC CTGTTCCTTG TAGGATGTTT AGTAGCATCC CTGCCCCCAC 3114793

CTACTAGATG CCAGGGGCAC TGTTCTCCCC AGCCCCCCGC CCCAGTTGTG 3114843

ACAATAGTCT CTAAACATTG TCAAATGGTC CAAGGAAAGG GGAAAATTGC 3114893

CCCGGTTGAG AAGAGCACTG CTGTAAAGTA ATGAGCCTCG GCTCTCCTGT 3114943

CTGCACCTGT CCGGTTACTA CTTGGCCACC ACGCAGCCTT GGCTCCTACA 3114993

GCCCAAAAGG GAGAATGGAG GGAGGCTCCA GGCTTTGCTG GAGGGGCCTG 3115043

GGTGAGTTCT GTTTGCTCCT TGTACCACCA TCCAAATGGT GTTATCAAAT 3115093

CTCTTAGATT CCAAAGAGGT TGAATAATTA ATGTTCAAAG GCAAGAGGGC 3115143

AAGGCATTTT TTAACACTTT TTAAAATAAA AATTTATACC ACAActttag 3115193

gctattgatg tgatgtgtca ctgggacaga tgcggattct ccatggtgcc 3115243

tctgccactg aggccgcatt tcctgagcat aatccccttt taccctcccg 3115293

ctgccaagca ggagacggga tgctgatggt aagaacacct ccctgccagt 3115343

gcattttggc gctcaggatg agaggcctgc agcactgctg tccccgcgcc 3115393

tggctctggg gccttccctt cacccccact ctctcagcac catggtgaga 3115443

agaaccaagt ttgcctgtga ggagttaggt acaaggccca agctccacaa 3115493

gaacactgct gttaatgggc agagccaatg acgacacaga ccagcaaagc 3115543

agaaccgaga ctgtccgcac ttggttcgga aacaaatact cacaccctag 3115593

gttattgctg gtaacggaga cctccttcca gctcccacag tcctgcttgg 3115643

tagattttct acttgttgct acaatcatca tctttgcttt gggtctgtca 3115693

cgtgaggtta gggtttcagg aataaaatgt ttaataaatc acaaaatatt 3115743

ttaggcagta ttttgatgta cattttaatg tgtggtattt atgaaaggga 3115793

aagggttttc taattataat aaaggcataa atagtgtaaa tattcaagat 3115843

tttagaagca gctgatttca gagaaatcac tgaaaggtta atgctactac 3115893

agtgattttt acaatatgca ataatccaag tatacgacca ggtatagtgg 3115943

ctcatgcctg taatcccagc actttgggag gccaagctgg gaggatcgct 3115993

tgaggccatg agttcgagac cagtgtggac aacacagcaa gaccctatct 3116043

ccacaaaaac attaaaaaat attagccagg tgtggtggtg tatgcctgta 3116093

gtcctagctt cttggcaggc taaggtggga ggatcacttg agcccaggag 3116143

tttgaggctg tggggagctg tgatcacacc gtgcctcaat aata

