SEQUENCE LISTING

<110> Sirion Biotech GmbH

<120> MEANS FOR GENERATING ADENOVIRAL VECTORS FOR CLONING LARGE NUCLEIC ACIDS

<130> SP102814SGB

<150> EP 10 016 217.1
<151> 2010-12-30

<160> 17

<170> PatentIn version 3.3

<210> 1
<211> 3050
<212> DNA
<213> Artificial

<220>
<223> synthetic

<400> 1
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60

ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt 120

gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180

gtgtgcgccg gtgtacacag gaagtgacaa ttttcgcgcg gttttaggcg gatgttgtag 240

taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga 300

agtgaaatct gaataatttt gtgttactca tagcgcgtaa tactggtacc ccccagtggc 360

aagacgcgca ggcaaaacgc accacgactg gatccgaatt caaaaagccg gaactgatca 420

gaaccattct cttgaaatgg ttctgatcag ttccggccgg tgtttcgtcc tttccacaag 480

atatataaag ccaagaaatc gaaatacttt caagttacgg taagcatatg atagtccatt 540

ttaaaacata attttaaaac tgcaaactac ccaagaaatt attactttct acgtcacgta 600

ttttgtacta atatctttgt gtttacagtc aaattaattc taattatctt tctaacagcc 660

ttgtatcgta tatgcaaata tgaaggaatc atgggaaata ggccctcttc ctgcccgacc 720

ttggcgcgcg ctcggcgcgc ggtcacgctc cgtcacgtgg tgcgttttgc ctgcgcgtct 780

tgccactggg gggtaccccg aatcactaga tctgagctcg gcctggtgat gatggcggga 840

tcgttgtata tttcttgaca ccttttcggc atcgccctaa aattcggcgt cctcatattg 900

tgtgaggacg ttttattacg tgtttacgaa gcaaaagcta aaaccaggag ctatttaatg 960

gcaacaaccg gtaccatgat tacgccaagc tacgtaatac gactcactag tggaagttcc 1020

tattctctag aaagtatagg aacttcctta agtgagtcgt attacggact ggccgtcgtt 1080

ttacaacgtc gtgactggga aaaccctggc gttacccaac ttaatcgcct tgcagcacat 1140

cccccttttcg ccagctggcg taatagcgaa gaggcccgca ccgatcgccc ttcccaacag 1200

ttgcgcagcc tgaatggcga atggcgcttc gcttggtaag ctagctaagg cttaaggagg 1260

acaatcatgg caacagttaa ccagctggta cgcaaaccac gtgctcgcaa agttgcgaaa 1320

agcaacgtgc ctgcgctgga agcatgcccg caaaaacgtg gcgtatgtac tcgtgtatat 1380

actaccactc ctaaaaaacc gaactccgcg ctgcgtaaag tatgccgtgt tcgtctgtct 1440

aacggtttcg aagtgacttc ctacatcggt ggtgaaggtc acaacctgca ggagcactcc 1500

gtgatcctga tccgtggcgg tcgtgttaaa gacctcccgg gtgttcgtta ccacaccgta 1560

cgtggtgcgc ttgactgctc cggcgttaaa gaccgtaagc aggctcgttc caagtatggc 1620

gtgaagcgtc ctaaggctta actagcacgc gccatgtcag ccgttaagtg ttcctgtgtc 1680

actcaaaatt gctttgagag gctctaaggg cttctcagtg cgttacatcc ctggcttgtt 1740

gtccacaacc gttaaacctt aaaagcttta aaagccttat atattctttt ttttcttata 1800

aaacttaaaa ccttagaggc tatttaagtt gctgatttat attaatttta ttgttcaaac 1860

atgagagctt agtacgtgaa acatgagagc ttagtacgtt agccatgaga gcttagtacg 1920

ttagccatga gggtttagtt cgttaaacat gagagcttag tacgttaaac atgagagctt 1980

agtacgtgaa acatgagagc ttagtacgta ctatcaacag gttgaactgc tgatcttcag 2040

atcctctacg ccggacgcat cgtggccgga tccgatttat tcaacaaagc cacgttgtgt 2100

ctcaaaatct ctgatgttac attgcacaag ataaaaatat atcatcatga acaataaaac 2160

tgtctgctta cataaacagt aatacaaggg gtgttatgag ccatattcaa cgggaaacgt 2220

cttgctcgag gccgcgatta aattccaaca tggatgctga tttatatggg tataaatggg 2280

ctcgcgataa tgtcgggcaa tcaggtgcga caatctatcg attgtatggg aagcccgatg 2340

cgccagagtt gtttctgaaa catggcaaag gtagcgttgc caatgatgtt acagatgaga 2400

tggtcagact aaactggctg acggaattta tgcctcttcc gaccatcaag cattttatcc 2460

gtactcctga tgatgcatgg ttactcacca ctgcgatccc cgggaaaaca gcattccagg 2520

tattagaaga atatcctgat tcaggtgaaa atattgttga tgcgctggca gtgttcctgc 2580

gccggttgca ttcgattcct gtttgtaatt gtccttttaa cagcgatcgc gtatttcgtc 2640

tcgctcaggc gcaatcacga atgaataacg gtttggttga tgcgagtgat tttgatgacg 2700

agcgtaatgg ctggcctgtt gaacaagtct ggaaagaaat gcataagctt ttgccattct 2760

caccggattc agtcgtcact catggtgatt tctcacttga taaccttatt tttgacgagg 2820

ggaaattaat aggttgtatt gatgttggac gagtcggaat cgcagaccga taccaggatc 2880

ttgccatcct atggaactgc ctcggtgagt tttctccttc attacagaaa cggctttttc 2940

aaaaatatgg tattgataat cctgatatga ataaattgca gtttcatttg atgctcgatg 3000

agtttttcta atcagaattg gttaattggt tgtaacactg gcttaattaa 3050

<210> 2
<211> 37320
<212> DNA
<213> Artificial

<220>
<223> synthetic

<400> 2
gaagttccta ttccgaagtt cctattctct agaaagtata ggaacttcag agcgcttttg 60

aagctggggt gggcgaagaa ctccagcatg agatccccag agcgcttttg aagctgcgtt 120

taaacgcgat atcccgggag ctcccgatat cgcgtttaaa cgcagcttgg cgtaatcatg 180

gtcatagctg tttcctgtgt gaaattgtta tccgctcaca attccacaca acatacgagc 240

cggaagactg aaatgtgtgg gcgtggctta agggtgggaa agaatatata aggtgggggt 300

cttatgtagt tttgtatctg ttttgcagca gccgccgccg ccatgagcac caactcgttt 360

gatggaagca ttgtgagctc atatttgaca acgcgcatgc ccccatgggc cggggtgcgt 420

cagaatgtga tgggctccag cattgatggt cgccccgtcc tgcccgcaaa ctctactacc 480

ttgacctacg agaccgtgtc tggaacgccg ttggagactg cagcctccgc cgccgcttca 540

gccgctgcag ccaccgcccg cgggattgtg actgactttg ctttcctgag cccgcttgca 600

agcagtgcag cttcccgttc atccgcccgc gatgacaagt tgacggctct tttggcacaa 660

ttggattctt tgacccggga acttaatgtc gtttctcagc agctgttgga tctgcgccag 720

caggtttctg ccctgaaggc ttcctccccc cccaatgcgg tttaaaacat aaataaaaaa 780

ccagactctg tttggatttg gatcaagcaa gtgtcttgct gtctttattt aggggttttg 840

cgcgcgcggt aggcccggga ccagcggtct cggtcgttga gggtcctgtg tatttttcc 900

aggacgtggt aaaggtgact ctggatgttc agatacatgg gcataagccc gtctctgggg 960

tggaggtagc accactgcag agcttcatgc tgcggggtgg tgttgtagat gatccagtcg 1020

tagcaggagc gctgggcgtg gtgcctaaaa atgtctttca gtagcaagct gattgccagg 1080

ggcaggccct tggtgtaagt gtttacaaag cggttaagct gggatgggtg catacgtggg 1140

gatatgagat gcatcttgga ctgtattttt aggttggcta tgttcccagc catatccctc 1200

cggggattca tgttgtgcag aaccaccagc acagtgtatc cggtgcactt gggaaatttg 1260

tcatgtagct tagaaggaaa tgcgtggaag aacttggaga cgcccttgtg acctccaaga 1320

ttttccatgc attcgtccat aatgatggca atgggcccac gggcggcggc ctgggcgaag 1380

atatttctgg gatcactaac gtcatagttg tgttccagga tgagatcgtc ataggccatt 1440

tttacaaagc gcgggcggag ggtgccagac tgcggtataa tggttccatc cggcccaggg 1500

gcgtagttac cctcacagat ttgcatttcc cacgctttga gttcagatgg ggggatcatg 1560

tctacctgcg gggcgatgaa gaaaacggtt tccggggtag gggagatcag ctgggaagaa 1620

agcaggttcc tgagcagctg cgacttaccg cagccggtgg gcccgtaaat cacacctatt 1680

accgggtgca actggtagtt aagagagctg cagctgccgt catccctgag cagggggcc 1740

acttcgttaa gcatgtccct gactcgcatg ttttccctga ccaaatccgc cagaaggcgc 1800

tcgccgccca gcgatagcag ttcttgcaag gaagcaaagt ttttcaacgg tttgagaccg 1860

tccgccgtag gcatgctttt gagcgtttga ccaagcagtt ccaggcggtc ccacagctcg 1920

gtcacctgct ctacggcatc tcgatccagc atatctcctc gtttcgcggg ttggggcggc 1980

tttcgctgta cggcagtagt cggtgctcgt ccagacgggc cagggtcatg tctttccacg 2040

ggcgcagggt cctcgtcagc gtagtctggg tcacggtgaa ggggtgcgct ccgggctgcg 2100

cgctggccag ggtgcgcttg aggctggtcc tgctggtgct gaagcgctgc cggtcttcgc 2160

cctgcgcgtc ggccaggtag catttgacca tggtgtcata gtccagcccc tccgcggcgt 2220

ggcccttggc gcgcagcttg cccttggagg aggcgccgca cgaggggcag tgcagacttt 2280

tgagggcgta gagcttgggc gcgagaaata ccgattccgg ggagtaggca tccgcgccgc 2340

aggccccgca gacggtctcg cattccacga gccaggtgag ctctggccgt tcggggtcaa 2400

aaaccaggtt tcccccatgc tttttgatgc gtttcttacc tctggtttcc atgagccggt 2460

gtccacgctc ggtgacgaaa aggctgtccg tgtccccgta tacagacttg agaggcctgt 2520

cctcgagcgg tgttccgcgg tcctcctcgt atagaaactc ggaccactct gagacaaagg 2580

ctcgcgtcca ggccagcacg aaggaggcta agtgggaggg gtagcggtcg ttgtccacta 2640

gggggtccac tcgctccagg gtgtgaagac acatgtcgcc ctcttcggca tcaaggaagg 2700

tgattggttt gtaggtgtag gccacgtgac cgggtgttcc tgaaggggggg ctataaaagg 2760

gggtgggggc gcgttcgtcc tcactctctt ccgcatcgct gtctgcgagg gccagctgtt 2820

ggggtgagta ctccctctga aaagcgggca tgacttctgc gctaagattg tcagtttcca 2880

aaaacgagga ggatttgata ttcacctggc ccgcggtgat gcctttgagg gtggccgcat 2940

ccatctggtc agaaaagaca atctttttgt tgtcaagctt ggtggcaaac gacccgtaga 3000

gggcgttgga cagcaacttg gcgatggagc gcagggtttg gtttttgtcg cgatcggcgc 3060

gctccttggc cgcgatgttt agctgcacgt attcgcgcgc aacgcaccgc cattcgggaa 3120

agacggtggt gcgctcgtcg ggcaccaggt gcacgcgcca accgcggttg tgcagggtga 3180

caaggtcaac gctggtggct acctctccgc gtaggcgctc gttggtccag cagaggcggc 3240

cgcccttgcg cgagcagaat ggcggtaggg ggtctagctg cgtctcgtcc gggggggtctg 3300

cgtccacggt aaagaccccg ggcagcaggc gcgcgtcgaa gtagtctatc ttgcatcctt 3360

gcaagtctag cgcctgctgc catgcgcggg cggcaagcgc gcgctcgtat gggttgagtg 3420

ggggacccca tggcatgggg tgggtgagcg cggaggcgta catgccgcaa atgtcgtaaa 3480

cgtagagggg ctctctgagt attccaagat atgtagggta gcatcttcca ccgcggatgc 3540

tggcgcgcac gtaatcgtat agttcgtgcg agggagcgag gaggtcggga ccgaggttgc 3600

tacgggcggg ctgctctgct cggaagacta tctgcctgaa gatggcatgt gagttggatg 3660

atatggttgg acgctggaag acgttgaagc tggcgtctgt gagacctacc gcgtcacgca 3720

cgaaggaggc gtaggagtcg cgcagcttgt tgaccagctc ggcggtgacc tgcacgtcta 3780

gggcgcagta gtccagggtt tccttgatga tgtcatactt atcctgtccc tttttttttcc 3840

acagctcgcg gttgaggaca aactcttcgc ggtctttcca gtactcttgg atcggaaacc 3900

cgtcggcctc cgaacggtaa gagcctagca tgtagaactg gttgacggcc tggtaggcgc 3960

agcatccctt ttctacgggt agcgcgtatg cctgcgcggc cttccggagc gaggtgtggg 4020

tgagcgcaaa ggtgtccctg accatgactt tgaggtactg gtatttgaag tcagtgtcgt 4080

cgcatccgcc ctgctcccag agcaaaaagt ccgtgcgctt tttggaacgc ggatttggca 4140

gggcgaaggt gacatcgttg aagagtatct ttcccgcgcg aggcataaag ttgcgtgtga 4200

tgcggaaggg tcccggcacc tcggaacggt tgttaattac ctgggcggcg agcacgatct 4260

cgtcaaagcc gttgatgttg tggcccacaa tgtaaagttc caagaagcgc gggatgccct 4320

tgatggaagg caatttttta agttcctcgt aggtgagctc ttcaggggag ctgagcccgt 4380

gctctgaaag ggcccagtct gcaagatgag ggttggaagc gacgaatgag ctccacaggt 4440

cacgggccat tagcatttgc aggtggtcgc gaaaggtcct aaactggcga cctatggcca 4500

ttttttctgg ggtgatgcag tagaaggtaa gcgggtcttg ttcccagcgg tcccatccaa 4560

ggttcgcggc taggtctcgc gcggcagtca ctagaggctc atctccgccg aacttcatga 4620

ccagcatgaa gggcacgagc tgcttcccaa aggcccccat ccaagtatag gtctctacat 4680

cgtaggtgac aaagagacgc tcggtgcgag gatgcgagcc gatcgggaag aactggatct 4740

cccgccacca attggaggag tggctattga tgtggtgaaa gtagaagtcc ctgcgacggg 4800

ccgaacactc gtgctggctt ttgtaaaaac gtgcgcagta ctggcagcgg tgcacgggct 4860

gtacatcctg cacgaggttg acctgacgac cgcgcacaag gaagcagagt gggaatttga 4920

gcccctcgcc tggcgggttt ggctggtggt cttctacttc ggctgcttgt ccttgaccgt 4980

ctggctgctc gaggggagtt acggtggatc ggaccaccac gccgcgcgag cccaaagtcc 5040

agatgtccgc gcgcggcggt cggagcttga tgacaacatc gcgcagatgg gagctgtcca 5100

tggtctggag ctcccgcggc gtcaggtcag gcgggagctc ctgcaggttt acctcgcata 5160

gacgggtcag ggcgcgggct agatccaggt gatacctaat ttccaggggc tggttggtgg 5220

cggcgtcgat ggcttgcaag aggccgcatc cccgcggcgc gactacggta ccgcgcggcg 5280

ggcggtgggc cgcgggggtg tccttggatg atgcatctaa aagcggtgac gcgggcgagc 5340

ccccggaggt agggggggct ccggacccgc cgggagaggg ggcaggggca cgtcggcgcc 5400

gcgcgcgggc aggagctggt gctgcgcgcg taggttgctg gcgaacgcga cgacgcggcg 5460

gttgatctcc tgaatctggc gcctctgcgt gaagacgacg ggcccggtga gcttgagcct 5520

gaaagagagt tcgacagaat caatttcggt gtcgttgacg gcggcctggc gcaaaatctc 5580

ctgcacgtct cctgagttgt cttgataggc gatctcggcc atgaactgct cgatctcttc 5640

ctcctggaga tctccgcgtc cggctcgctc cacggtggcg gcgaggtcgt tggaaatgcg 5700

ggccatgagc tgcgagaagg cgttgaggcc tccctcgttc cagacgcggc tgtagaccac 5760

gccccttcg gcatcgcggg cgcgcatgac cacctgcgcg agattgagct ccacgtgccg 5820

ggcgaagacg gcgtagtttc gcaggcgctg aaagaggtag ttgagggtgg tggcggtgtg 5880

ttctgccacg aagaagtaca taacccagcg tcgcaacgtg gattcgttga tatcccccaa 5940

ggcctcaagg cgctccatgg cctcgtagaa gtccacggcg aagttgaaaa actgggagtt 6000

gcgcgccgac acggttaact cctcctccag aagacggatg agctcggcga cagtgtcgcg 6060

cacctcgcgc tcaaaggcta caggggcctc ttcttcttct tcaatctcct cttccataag 6120

ggcctcccct tcttcttctt ctggcggcgg tgggggaggg gggacacggc ggcgacgacg 6180

gcgcaccggg aggcggtcga caaagcgctc gatcatctcc ccgcggcgac ggcgcatggt 6240

ctcggtgacg gcgcggccgt tctcgcgggg gcgcagttgg aagacgccgc ccgtcatgtc 6300

ccggttatgg gttggcgggg ggctgccatg cggcagggat acggcgctaa cgatgcatct 6360

caacaattgt tgtgtaggta ctccgccgcc gagggacctg agcgagtccg catcgaccgg 6420

atcggaaaac ctctcgagaa aggcgtctaa ccagtcacag tcgcaaggta ggctgagcac 6480

cgtggcgggc ggcagcgggc ggcggtcggg gttgtttctg gcggaggtgc tgctgatgat 6540

gtaattaaag taggcggtct tgagacggcg gatggtcgac agaagcacca tgtccttggg 6600

tccggcctgc tgaatgcgca ggcggtcggc catgccccag gcttcgtttt gacatcggcg 6660

caggtctttg tagtagtctt gcatgagcct ttctaccggc acttcttctt ctccttcctc 6720

ttgtcctgca tctcttgcat ctatcgctgc ggcggcggcg gagtttggcc gtaggtggcg 6780

ccctcttcct cccatgcgtg tgaccccgaa gcccctcatc ggctgaagca gggctaggtc 6840

ggcgacaacg cgctcggcta atatggcctg ctgcacctgc gtgagggtag actggaagtc 6900

atccatgtcc acaaagcggt ggtatgcgcc cgtgttgatg gtgtaagtgc agttggccat 6960

aacggaccag ttaacggtct ggtgacccgg ctgcgagagc tcggtgtacc tgagacgcga 7020

gtaagccctc gagtcaaata cgtagtcgtt gcaagtccgc accaggtact ggtatcccac 7080

caaaaagtgc ggcggcggct ggcggtagag gggccagcgt agggtggccg gggctccggg 7140

ggcgagatct tccaacataa ggcgatgata tccgtagatg tacctggaca tccaggtgat 7200

gccggcggcg gtggtggagg cgcgcggaaa gtcgcggacg cggttccaga tgttgcgcag 7260

cggcaaaaag tgctccatgg tcgggacgct ctggccggtc aggcgcgcgc aatcgttgac 7320

gctctagacc gtgcaaaagg agagcctgta agcgggcact cttccgtggt ctggtggata 7380

aattcgcaag ggtatcatgg cggacgaccg gggttcgagc cccgtatccg gccgtccgcc 7440

gtgatccatg cggttaccgc ccgcgtgtcg aacccaggtg tgcgacgtca gacaacgggg 7500

gagtgctcct tttggcttcc ttccaggcgc ggcggctgct gcgctagctt ttttggccac 7560

tggccgcgcg cagcgtaagc ggttaggctg gaaagcgaaa gcattaagtg gctcgctccc 7620

tgtagccgga gggttatttt ccaagggttg agtcgcggga cccccggttc gagtctcgga 7680

ccggccggac tgcggcgaac gggggtttgc ctccccgtca tgcaagaccc cgcttgcaaa 7740

ttcctccgga aacagggacg agccccttt ttgcttttcc cagatgcatc cggtgctgcg 7800

gcagatgcgc ccccctcctc agcagcggca agagcaagag cagcggcaga catgcagggc 7860

accctcccct cctcctaccg cgtcaggagg ggcgacatcc gcggttgacg cggcagcaga 7920

tggtgattac gaacccccgc ggcgccgggc ccggcactac ctggacttgg aggagggcga 7980

gggcctggcg cggctaggag cgccctctcc tgagcggtac ccaagggtgc agctgaagcg 8040

tgatacgcgt gaggcgtacg tgccgcggca gaacctgttt cgcgaccgcg agggagagga 8100

gcccgaggag atgcgggatc gaaagttcca cgcagggcgc gagctgcggc atggcctgaa 8160

tcgcgagcgg ttgctgcgcg aggaggactt tgagcccgac gcgcgaaccg ggattagtcc 8220

cgcgcgcgca cacgtggcgg ccgccgacct ggtaaccgca tacgagcaga cggtgaacca 8280

ggagattaac tttcaaaaaa gctttaacaa ccacgtgcgt acgcttgtgg cgcgcgagga 8340

ggtggctata ggactgatgc atctgtggga ctttgtaagc gcgctggagc aaaacccaaa 8400

tagcaagccg ctcatggcgc agctgttcct tatagtgcag cacagcaggg acaacgaggc 8460

attcagggat gcgctgctaa acatagtaga gcccgagggc cgctggctgc tcgatttgat 8520

aaacatcctg cagagcatag tggtgcagga gcgcagcttg agcctggctg acaaggtggc 8580

cgccatcaac tattccatgc ttagcctggg caagttttac gcccgcaaga tataccatac 8640

cccttacgtt cccatagaca aggaggtaaa gatcgagggg ttctacatgc gcatggcgct 8700

gaaggtgctt accttgagcg acgacctggg cgtttatcgc aacgagcgca tccacaaggc 8760

cgtgagcgtg agccggcggc gcgagctcag cgaccgcgag ctgatgcaca gcctgcaaag 8820

ggccctggct ggcacgggca gcggcgatag agaggccgag tcctactttg acgcgggcgc 8880

tgacctgcgc tgggccccaa gccgacgcgc cctggaggca gctggggccg gacctgggct 8940

ggcggtggca cccgcgcgcg ctggcaacgt cggcggcgtg gaggaatatg acgaggacga 9000

tgagtacgag ccagaggacg gcgagtacta agcggtgatg tttctgatca gatgatgcaa 9060

gacgcaacgg acccggcggt gcgggcggcg ctgcagagcc agccgtccgg ccttaactcc 9120

acggacgact ggcgccaggt catggaccgc atcatgtcgc tgactgcgcg caatcctgac 9180

gcgttccggc agcagccgca ggccaaccgg ctctccgcaa ttctggaagc ggtggtcccg 9240

gcgcgcgcaa accccacgca cgagaaggtg ctggcgatcg taaacgcgct ggccgaaaac 9300

agggccatcc ggcccgacga ggccggcctg gtctacgacg cgctgcttca gcgcgtggct 9360

cgttacaaca gcggcaacgt gcagaccaac ctggaccggc tggtgggggа tgtgcgcgag 9420

gccgtggcgc agcgtgagcg cgcgcagcag cagggcaacc tgggctccat ggttgcacta 9480

aacgccttcc tgagtacaca gcccgccaac gtgccgcggg gacaggagga ctacaccaac 9540

tttgtgagcg cactgcggct aatggtgact gagacaccgc aaagtgaggt gtaccagtct 9600

gggccagact atttttcca gaccagtaga caaggcctgc agaccgtaaa cctgagccag 9660

gctttcaaaa acttgcaggg gctgtggggg gtgcgggctc ccacaggcga ccgcgcgacc 9720

gtgtctagct tgctgacgcc caactcgcgc ctgttgctgc tgctaatagc gcccttcacg 9780

gacagtggca gcgtgtcccg ggacacatac ctaggtcact tgctgacact gtaccgcgag 9840

gccataggtc aggcgcatgt ggacgagcat actttccagg agattacaag tgtcagccgc 9900

gcgctggggc aggaggacac gggcagcctg gaggcaaccc taaactacct gctgaccaac 9960

cggcggcaga agatcccctc gttgcacagt ttaaacagcg aggaggagcg cattttgcgc 10020

tacgtgcagc agagcgtgag ccttaacctg atgcgcgacg gggtaacgcc cagcgtggcg 10080

ctggacatga ccgcgcgcaa catggaaccg ggcatgtatg cctcaaaccg gccgtttatc 10140

aaccgcctaa tggactactt gcatcgcgcg gccgccgtga accccgagta tttcaccaat 10200

gccatcttga acccgcactg gctaccgccc cctggtttct acaccggggg attcgaggtg 10260

cccgagggta acgatggatt cctctgggac gacatagacg acagcgtgtt ttccccgcaa 10320

ccgcagaccc tgctagagtt gcaacagcgc gagcaggcag aggcggcgct gcgaaaggaa 10380

agcttccgca ggccaagcag cttgtccgat ctaggcgctg cggccccgcg gtcagatgct 10440

agtagcccat ttccaagctt gatagggtct cttaccagca ctcgcaccac ccgcccgcgc 10500

ctgctgggcg aggaggagta cctaaacaac tcgctgctgc agccgcagcg cgaaaaaaac 10560

ctgcctccgg catttcccaa caacgggata gagagcctag tggacaagat gagtagatgg 10620

aagacgtacg cgcaggagca cagggacgtg ccaggcccgc gcccgcccac ccgtcgtcaa 10680

aggcacgacc gtcagcgggg tctggtgtgg gaggacgatg actcggcaga cgacagcagc 10740

gtcctggatt tgggagggag tggcaacccg tttgcgcacc ttcgccccag gctggggaga 10800

atgttttaaa aaaaaaaaag catgatgcaa aataaaaaac tcaccaaggc catggcaccg 10860

agcgttggtt ttcttgtatt ccccttagta tgcggcgcgc ggcgatgtat gaggaaggtc 10920

ctcctccctc ctacgagagt gtggtgagcg cggcgccagt ggcggcggcg ctgggttctc 10980

ccttcgatgc tcccctggac ccgccgtttg tgcctccgcg gtacctgcgg cctaccgggg 11040

ggagaaacag catccgttac tctgagttgg cacccctatt cgacaccacc cgtgtgtacc 11100

tggtggacaa caagtcaacg gatgtggcat ccctgaacta ccagaacgac cacagcaact 11160

ttctgaccac ggtcattcaa aacaatgact acagcccggg ggaggcaagc acacagacca 11220

tcaatcttga cgaccggtcg cactggggcg gcgacctgaa aaccatcctg cataccaaca 11280

tgccaaatgt gaacgagttc atgtttacca ataagtttaa ggcgcgggtg atggtgtcgc 11340

gcttgcctac taaggacaat caggtggagc tgaaatacga gtgggtggag ttcacgctgc 11400

ccgagggcaa ctactccgag accatgacca tagaccttat gaacaacgcg atcgtggagc 11460

actacttgaa agtgggcaga cagaacgggg ttctggaaag cgacatcggg gtaaagtttg 11520

acacccgcaa cttcagactg gggtttgacc ccgtcactgg tcttgtcatg cctggggtat 11580

atacaaacga agccttccat ccagacatca ttttgctgcc aggatgcggg gtggacttca 11640

cccacagccg cctgagcaac ttgttgggca tccgcaagcg gcaacccttc caggagggct 11700

ttaggatcac ctacgatgat ctggagggtg gtaacattcc cgcactgttg gatgtggacg 11760

cctaccaggc gagcttgaaa gatgacaccg aacagggcgg gggtggcgca ggcggcagca 11820

acagcagtgg cagcggcgcg gaagagaact ccaacgcggc agccgcggca atgcagccgg 11880

tggaggacat gaacgatcat gccattcgcg gcgacacctt tgccacacgg gctgaggaga 11940

agcgcgctga ggccgaagca gcggccgaag ctgccgcccc cgctgcgcaa cccgaggtcg 12000

agaagcctca gaagaaaccg gtgatcaaac ccctgacaga ggacagcaag aaacgcagtt 12060

acaacctaat aagcaatgac agcaccttca cccagtaccg cagctggtac cttgcataca 12120

actacggcga ccctcagacc ggaatccgct catggaccct gctttgcact cctgacgtaa 12180

cctgcggctc ggagcaggtc tactggtcgt tgccagacat gatgcaagac cccgtgacct 12240

tccgctccac gcgccagatc agcaactttc cggtggtggg cgccgagctg ttgcccgtgc 12300

actccaagag cttctacaac gaccaggccg tctactccca actcatccgc cagtttacct 12360

ctctgaccca cgtgttcaat cgctttcccg agaaccagat tttggcgcgc ccgccagccc 12420

ccaccatcac caccgtcagt gaaaacgttc ctgctctcac agatcacggg acgctaccgc 12480

tgcgcaacag catcggagga gtccagcgag tgaccattac tgacgccaga cgccgcacct 12540

gcccctacgt ttacaaggcc ctgggcatag tctcgccgcg cgtcctatcg agccgcactt 12600

tttgagcaag catgtccatc cttatatcgc ccagcaataa cacaggctgg ggcctgcgct 12660

tcccaagcaa gatgtttggc ggggccaaga agcgctccga ccaacaccca gtgcgcgtgc 12720

gcgggcacta ccgcgcgccc tggggcgcgc acaaacgcgg ccgcactggg cgcaccaccg 12780

tcgatgacgc catcgacgcg gtggtggagg aggcgcgcaa ctacacgccc acgccgccac 12840

cagtgtccac agtggacgcg gccattcaga ccgtggtgcg cggagcccgg cgctatgcta 12900

aaatgaagag acggcggagg cgcgtagcac gtcgccaccg ccgccgaccc ggcactgccg 12960

cccaacgcgc ggcggcggcc ctgcttaacc gcgcacgtcg caccggccga cgggcggcca 13020

tgcgggccgc tcgaaggctg gccgcgggta ttgtcactgt gccccccagg tccaggcgac 13080

gagcggccgc cgcagcagcc gcggccatta gtgctatgac tcagggtcgc aggggcaacg 13140

tgtattgggt gcgcgactcg gttagcggcc tgcgcgtgcc cgtgcgcacc cgccccccgc 13200

gcaactagat tgcaagaaaa aactacttag actcgtactg ttgtatgtat ccagcggcgg 13260

cggcgcgcaa cgaagctatg tccaagcgca aaatcaaaga agagatgctc caggtcatcg 13320

cgccggagat ctatggcccc ccgaagaagg aagagcagga ttacaagccc cgaaagctaa 13380

agcgggtcaa aaagaaaaag aaagatgatg atgatgaact tgacgacgag gtggaactgc 13440

tgcacgctac cgcgcccagg cgacgggtac agtggaaagg tcgacgcgta aaacgtgttt 13500

tgcgacccgg caccaccgta gtctttacgc ccggtgagcg ctccacccgc acctacaagc 13560

gcgtgtatga tgaggtgtac ggcgacgagg acctgcttga gcaggccaac gagcgcctcg 13620

gggagtttgc ctacggaaag cggcataagg acatgctggc gttgccgctg gacgagggca 13680

acccaacacc tagcctaaag cccgtaacac tgcagcaggt gctgcccgcg cttgcaccgt 13740

ccgaagaaaa gcgcggccta aagcgcgagt ctggtgactt ggcacccacc gtgcagctga 13800

tggtacccaa gcgccagcga ctggaagatg tcttggaaaa aatgaccgtg gaacctgggc 13860

tggagcccga ggtccgcgtg cggccaatca agcaggtggc gccgggactg ggcgtgcaga 13920

ccgtggacgt tcagataccc actaccagta gcaccagtat tgccaccgcc acagagggca 13980

tggagacaca aacgtccccg gttgcctcag cggtggcgga tgccgcggtg caggcggtcg 14040

ctgcggccgc gtccaagacc tctacggagg tgcaaacgga cccgtggatg tttcgcgttt 14100

cagccccccg gcgcccgcgc ggttcgagga agtacggcgc cgccagcgcg ctactgcccg 14160

aatatgccct acatccttcc attgcgccta cccccggcta tcgtggctac acctaccgcc 14220

ccagaagacg agcaactacc cgacgccgaa ccaccactgg aacccgccgc cgccgtcgcc 14280

gtcgccagcc cgtgctggcc ccgatttccg tgcgcagggt ggctcgcgaa ggaggcagga 14340

ccctggtgct gccaacagcg cgctaccacc ccagcatcgt ttaaaagccg gtctttgtgg 14400

ttcttgcaga tatggccctc acctgccgcc tccgtttccc ggtgccggga ttccgaggaa 14460

gaatgcaccg taggaggggc atggccggcc acggcctgac gggcggcatg cgtcgtgcgc 14520

accaccggcg gcggcgcgcg tcgcaccgtc gcatgcgcgg cggtatcctg cccctcctta 14580

ttccactgat cgccgcggcg attggcgccg tgcccggaat tgcatccgtg gccttgcagg 14640

cgcagagaca ctgattaaaa acaagttgca tgtggaaaaa tcaaaataaa aagtctggac 14700

tctcacgctc gcttggtcct gtaactattt tgtagaatgg aagacatcaa ctttgcgtct 14760

ctggccccgc gacacggctc gcgcccgttc atgggaaact ggcaagatat cggcaccagc 14820

aatatgagcg gtggcgcctt cagctggggc tcgctgtgga gcggcattaa aaatttcggt 14880

tccaccgtta agaactatgg cagcaaggcc tggaacagca gcacaggcca gatgctgagg 14940

gataagttga aagagcaaaa tttccaacaa aaggtggtag atggcctggc ctctggcatt 15000

agcggggtgg tggacctggc caaccaggca gtgcaaaata agattaacag taagcttgat 15060

ccccgccctc ccgtagagga gcctccaccg gccgtggaga cagtgtctcc agaggggcgt 15120

ggcgaaaagc gtccgcgccc cgacagggaa gaaactctgg tgacgcaaat agacgagcct 15180

ccctcgtacg aggaggcact aaagcaaggc ctgcccacca cccgtcccat cgcgcccatg 15240

gctaccggag tgctgggcca gcacacaccc gtaacgctgg acctgcctcc ccccgccgac 15300

acccagcaga aacctgtgct gccaggcccg accgccgttg ttgtaacccg tcctagccgc 15360

gcgtccctgc gccgcgccgc cagcggtccg cgatcgttgc ggcccgtagc cagtggcaac 15420

tggcaaagca cactgaacag catcgtgggt ctgggggtgc aatccctgaa gcgccgacga 15480

tgcttctgaa tagctaacgt gtcgtatgtg tgtcatgtat gcgtccatgt cgccgccaga 15540

ggagctgctg agccgccgcg cgcccgcttt ccaagatggc taccccttcg atgatgccgc 15600

agtggtctta catgcacatc tcgggccagg acgcctcgga gtacctgagc cccgggctgg 15660

tgcagtttgc ccgcgccacc gagacgtact tcagcctgaa taacaagttt agaaacccca 15720

cggtggcgcc tacgcacgac gtgaccacag accggtccca gcgtttgacg ctgcggttca 15780

tccctgtgga ccgtgaggat actgcgtact cgtacaaggc gcggttcacc ctagctgtgg 15840

gtgataaccg tgtgctggac atggcttcca cgtactttga catccgcggc gtgctggaca 15900

ggggccctac ttttaagccc tactctggca ctgcctacaa cgccctggct cccaagggtg 15960

ccccaaatcc ttgcgaatgg gatgaagctg ctactgctct tgaaataaac ctagaagaag 16020

aggacgatga caacgaagac gaagtagacg agcaagctga gcagcaaaaa actcacgtat 16080

ttgggcaggc gccttattct ggtataaata ttacaaagga gggtattcaa ataggtgtcg 16140

aaggtcaaac acctaaatat gccgataaaa catttcaacc tgaacctcaa ataggagaat 16200

ctcagtggta cgaaactgaa attaatcatg cagctgggag agtccttaaa aagactaccc 16260

caatgaaacc atgttacggt tcatatgcaa aacccacaaa tgaaaatgga gggcaaggca 16320

ttcttgtaaa gcaacaaaat ggaaagctag aaagtcaagt ggaaatgcaa tttttctcaa 16380

ctactgaggc gaccgcaggc aatggtgata acttgactcc taaagtggta ttgtacagtg 16440

aagatgtaga tatagaaacc ccagacactc atatttctta catgcccact attaaggaag 16500

gtaactcacg agaactaatg ggccaacaat ctatgcccaa caggcctaat tacattgctt 16560

ttagggacaa ttttattggt ctaatgtatt acaacagcac gggtaatatg ggtgttctgg 16620

cgggccaagc atcgcagttg aatgctgttg tagatttgca agacagaaac acagagcttt 16680

cataccagct tttgcttgat tccattggtg atagaaccag gtacttttct atgtggaatc 16740

aggctgttga cagctatgat ccagatgtta gaattattga aaatcatgga actgaagatg 16800

aacttccaaa ttactgcttt ccactgggag gtgtgattaa tacagagact cttaccaagg 16860

taaaacctaa aacaggtcag gaaaatggat gggaaaaaga tgctacagaa ttttcagata 16920

aaaatgaaat aagagttgga aataattttg ccatggaaat caatctaaat gccaacctgt 16980

ggagaaattt cctgtactcc aacatagcgc tgtatttgcc cgacaagcta aagtacagtc 17040

cttccaacgt aaaaatttct gataacccaa acacctacga ctacatgaac aagcgagtgg 17100

tggctcccgg gttagtggac tgctacatta accttggagc acgctggtcc cttgactata 17160

tggacaacgt caacccattt aaccaccacc gcaatgctgg cctgcgctac cgctcaatgt 17220

tgctgggcaa tggtcgctat gtgcccttcc acatccaggt gcctcagaag ttctttgcca 17280

ttaaaaacct ccttctcctg ccgggctcat acacctacga gtggaacttc aggaaggatg 17340

ttaacatggt tctgcagagc tccctaggaa atgacctaag ggttgacgga gccagcatta 17400

agtttgatag catttgcctt tacgccacct tcttccccat ggcccacaac accgcctcca 17460

cgcttgaggc catgcttaga aacgacacca acgaccagtc ctttaacgac tatctctccg 17520

ccgccaacat gctctaccct atacccgcca acgctaccaa cgtgcccata tccatcccct 17580

cccgcaactg ggcggctttc cgcggctggg ccttcacgcg ccttaagact aaggaaaccc 17640

catcactggg ctcgggctac gacccttatt acacctactc tggctctata ccctacctag 17700

atggaacctt ttacctcaac cacaccttta agaaggtggc cattaccttt gactcttctg 17760

tcagctggcc tggcaatgac cgcctgctta cccccaacga gtttgaaatt aagcgctcag 17820

ttgacgggga gggttacaac gttgcccagt gtaacatgac caaagactgg ttcctggtac 17880

aaatgctagc taactacaac attggctacc agggcttcta tatcccagag agctacaagg 17940

accgcatgta ctccttcttt agaaacttcc agcccatgag ccgtcaggtg gtggatgata 18000

ctaaatacaa ggactaccaa caggtgggca tcctacacca acacaacaac tctggatttg 18060

ttggctacct tgcccccacc atgcgcgaag gacaggccta ccctgctaac ttcccctatc 18120

cgcttatagg caagaccgca gttgacagca ttacccagaa aaagtttctt tgcgatcgca 18180

ccctttggcg catcccattc tccagtaact ttatgtccat gggcgcactc acagacctgg 18240

gccaaaacct tctctacgcc aactccgccc acgcgctaga catgactttt gaggtggatc 18300

ccatggacga gcccaccctt ctttatgttt tgtttgaagt ctttgacgtg gtccgtgtgc 18360

accggccgca ccgcggcgtc atcgaaaccg tgtacctgcg cacgcccttc tcggccggca 18420

acgccacaac ataaagaagc aagcaacatc aacaacagct gccgccatgg gctccagtga 18480

gcaggaactg aaagccattg tcaaagatct tggttgtggg ccatattttt tgggcaccta 18540

tgacaagcgc tttccaggct ttgtttctcc acacaagctc gcctgcgcca tagtcaatac 18600

ggccggtcgc gagactgggg gcgtacactg gatggccttt gcctggaacc cgcactcaaa 18660

aacatgctac ctctttgagc cctttggctt ttctgaccag cgactcaagc aggtttacca 18720

gtttgagtac gagtcactcc tgcgccgtag cgccattgct tcttcccccg accgctgtat 18780

aacgctggaa aagtccaccc aaagcgtaca ggggcccaac tcggccgcct gtggactatt 18840

ctgctgcatg tttctccacg cctttgccaa ctggccccaa actcccatgg atcacaaccc 18900

caccatgaac cttattaccg gggtacccaa ctccatgctc aacagtcccc aggtacagcc 18960

caccctgcgt cgcaaccagg aacagctcta cagcttcctg gagcgccact cgccctactt 19020

ccgcagccac agtgcgcaga ttaggagcgc cacttctttt tgtcacttga aaaacatgta 19080

aaaataatgt actagagaca ctttcaataa aggcaaatgc ttttatttgt acactctcgg 19140

gtgattattt acccccaccc ttgccgtctg cgccgtttaa aaatcaaagg ggttctgccg 19200

cgcatcgcta tgcgccactg gcagggacac gttgcgatac tggtgtttag tgctccactt 19260

aaactcaggc acaaccatcc gcggcagctc ggtgaagttt tcactccaca ggctgcgcac 19320

catcaccaac gcgtttagca ggtcgggcgc cgatatcttg aagtcgcagt tggggcctcc 19380

gccctgcgcg cgcgagttgc gatacacagg gttgcagcac tggaacacta tcagcgccgg 19440

gtggtgcacg ctggccagca cgctcttgtc ggagatcaga tccgcgtcca ggtcctccgc 19500

gttgctcagg gcgaacggag tcaactttgg tagctgcctt cccaaaaagg gcgcgtgccc 19560

aggctttgag ttgcactcgc accgtagtgg catcaaaagg tgaccgtgcc cggtctgggc 19620

gttaggatac agcgcctgca taaaagcctt gatctgctta aaagccacct gagcctttgc 19680

gccttcagag aagaacatgc cgcaagactt gccggaaaac tgattggccg gacaggccgc 19740

gtcgtgcacg cagcaccttg cgtcggtgtt ggagatctgc accacatttc ggccccaccg 19800

gttcttcacg atcttggcct tgctagactg ctccttcagc gcgcgctgcc cgttttcgct 19860

cgtcacatcc atttcaatca cgtgctcctt atttatcata atgcttccgt gtagacactt 19920

aagctcgcct tcgatctcag cgcagcggtg cagccacaac gcgcagcccg tgggctcgtg 19980

atgcttgtag gtcacctctg caaacgactg caggtacgcc tgcaggaatc gccccatcat 20040

cgtcacaaag gtcttgttgc tggtgaaggt cagctgcaac ccgcggtgct cctcgttcag 20100

ccaggtcttg catacggccg ccagagcttc cacttggtca ggcagtagtt tgaagttcgc 20160

ctttagatcg ttatccacgt ggtacttgtc catcagcgcg cgcgcagcct ccatgcccct 20220

ctcccacgca gacacgatcg gcacactcag cgggttcatc accgtaattt cactttccgc 20280

ttcgctgggc tcttcctctt cctcttgcgt ccgcatacca cgcgccactg ggtcgtcttc 20340

attcagccgc cgcactgtgc gcttacctcc tttgccatgc ttgattagca ccggtgggtt 20400

gctgaaaccc accatttgta gcgccacatc ttctctttct tcctcgctgt ccacgattac 20460

ctctggtgat ggcgggcgct cgggcttggg agaagggcgc ttctttttct tcttgggcgc 20520

aatggccaaa tccgccgccg aggtcgatgg ccgcgggctg ggtgtgcgcg gcaccagcgc 20580

gtcttgtgat gagtcttcct cgtcctcgga ctcgatacgc cgcctcatcc gctttttgg 20640

gggcgcccgg ggaggcggcg gcgacgggga cggggacgac acgtcctcca tggttggggg 20700

acgtcgcgcc gcaccgcgtc cgcgctcggg ggtggtttcg cgctgctcct cttcccgact 20760

ggccatttcc ttctcctata ggcagaaaaa gatcatggag tcagtcgaga agaaggacag 20820

cctaaccgcc ccctctgagt tcgccaccac cgcctccacc gatgccgcca acgcgcctac 20880

caccttcccc gtcgaggcac ccccgcttga ggaggaggaa gtgattatcg agcaggaccc 20940

aggttttgta agcgaagacg acgaggaccg ctcagtacca acagaggata aaaagcaaga 21000

ccaggacaac gcagaggcaa acgaggaaca agtcgggcgg ggggacgaaa ggcatggcga 21060

ctacctagat gtgggagacg acgtgctgtt gaagcatctg cagcgccagt gcgccattat 21120

ctgcgacgcg ttgcaagagc gcagcgatgt gcccctcgcc atagcggatg tcagccttgc 21180

ctacgaacgc cacctattct caccgcgcgt acccccccaaa cgccaagaaa acggcacatg 21240

cgagcccaac ccgcgcctca acttctaccc cgtatttgcc gtgccagagg tgcttgccac 21300

ctatcacatc tttttccaaa actgcaagat acccctatcc tgccgtgcca accgcagccg 21360

agcggacaag cagctggcct tgcggcaggg cgctgtcata cctgatatcg cctcgctcaa 21420

cgaagtgcca aaaatctttg agggtcttgg acgcgacgag aagcgcgcgg caaacgctct 21480

gcaacaggaa aacagcgaaa atgaaagtca ctctggagtg ttggtggaac tcgagggtga 21540

caacgcgcgc ctagccgtac taaaacgcag catcgaggtc acccactttg cctacccggc 21600

acttaaccta ccccccaagg tcatgagcac agtcatgagt gagctgatcg tgcgccgtgc 21660

gcagcccctg gagagggatg caaatttgca agaacaaaca gaggagggcc tacccgcagt 21720

tggcgacgag cagctagcgc gctggcttca aacgcgcgag cctgccgact tggaggagcg 21780

acgcaaacta atgatggccg cagtgctcgt taccgtggag cttgagtgca tgcagcggtt 21840

ctttgctgac ccggagatgc agcgcaagct agaggaaaca ttgcactaca cctttcgaca 21900

gggctacgta cgccaggcct gcaagatctc caacgtggag ctctgcaacc tggtctccta 21960

ccttggaatt ttgcacgaaa accgccttgg gcaaaacgtg cttcattcca cgctcaaggg 22020

cgaggcgcgc cgcgactacg tccgcgactg cgtttactta tttctatgct acacctggca 22080

gacggccatg ggcgtttggc agcagtgctt ggaggagtgc aacctcaagg agctgcagaa 22140

actgctaaag caaaacttga aggacctatg gacggccttc aacgagcgct ccgtggccgc 22200

gcacctggcg gacatcattt tccccgaacg cctgcttaaa accctgcaac agggtctgcc 22260

agacttcacc agtcaaagca tgttgcagaa ctttaggaac tttatcctag agcgctcagg 22320

aatcttgccc gccacctgct gtgcacttcc tagcgacttt gtgcccatta agtaccgcga 22380

atgccctccg ccgctttggg gccactgcta ccttctgcag ctagccaact accttgccta 22440

ccactctgac ataatggaag acgtgagcgg tgacggtcta ctggagtgtc actgtcgctg 22500

caacctatgc accccgcacc gctccctggt ttgcaattcg cagctgctta acgaaagtca 22560

aattatcggt acctttgagc tgcagggtcc ctcgcctgac gaaaagtccg cggctccggg 22620

gttgaaactc actccggggc tgtggacgtc ggcttacctt cgcaaatttg tacctgagga 22680

ctaccacgcc cacgagatta ggttctacga agaccaatcc cgcccgccaa atgcggagct 22740

taccgcctgc gtcattaccc agggccacat tcttggccaa ttgcaagcca tcaacaaagc 22800

ccgccaagag tttctgctac gaaagggacg gggggtttac ttggaccccc agtccggcga 22860

ggagctcaac ccaatccccc cgccgccgca gccctatcag cagcagccgc gggcccttgc 22920

ttcccaggat ggcacccaaa aagaagctgc agctgccgcc gccacccacg gacgaggagg 22980

aatactggga cagtcaggca gaggaggttt tggacgagga ggaggaggac atgatggaag 23040

actgggagag cctagacgag gaagcttccg aggtcgaaga ggtgtcagac gaaacaccgt 23100

caccctcggt cgcattcccc tcgccggcgc cccagaaatc ggcaaccggt tccagcatgg 23160

ctacaacctc cgctcctcag gcgccgccgg cactgcccgt tcgccgaccc aaccgtagat 23220

gggacaccac tggaaccagg gccggtaagt ccaagcagcc gccgccgtta gcccaagagc 23280

aacaacagcg ccaaggctac cgctcatggc gcgggcacaa gaacgccata gttgcttgct 23340

tgcaagactg tgggggcaac atctccttcg cccgccgctt tcttctctac catcacggcg 23400

tggccttccc ccgtaacatc ctgcattact accgtcatct ctacagccca tactgcaccg 23460

gcggcagcgg cagcggcagc aacagcagcg gccacacaga agcaaaggcg accggatagc 23520

aagactctga caaagcccaa gaaatccaca gcggcggcag cagcaggagg aggagcgctg 23580

cgtctggcgc ccaacgaacc cgtatcgacc cgcgagctta gaaacaggat ttttcccact 23640

ctgtatgcta tatttcaaca gagcaggggc caagaacaag agctgaaaat aaaaaacagg 23700

tctctgcgat ccctcacccg cagctgcctg tatcacaaaa gcgaagatca gcttcggcgc 23760

acgctggaag acgcggaggc tctcttcagt aaatactgcg cgctgactct taaggactag 23820

tttcgcgccc tttctcaaat ttaagcgcga aaactacgtc atctccagcg gccacacccg 23880

gcgccagcac ctgtcgtcag cgccattatg agcaaggaaa ttcccacgcc ctacatgtgg 23940

agttaccagc cacaaatggg acttgcggct ggagctgccc aagactactc aacccgaata 24000

aactacatga gcgcgggacc ccacatgata tcccgggtca acggaatccg cgcccaccga 24060

aaccgaattc tcttggaaca ggcggctatt accaccacac ctcgtaataa ccttaatccc 24120

cgtagttggc ccgctgccct ggtgtaccag gaaagtcccg ctcccaccac tgtggtactt 24180

cccagagacg cccaggccga agttcagatg actaactcag gggcgcagct tgcgggcggc 24240

tttcgtcaca gggtgcggtc gcccgggcag ggtataactc acctgacaat cagagggcga 24300

ggtattcagc tcaacgacga gtcggtgagc tcctcgcttg gtctccgtcc ggacgggaca 24360

tttcagatcg gcggcgccgg ccgtccttca ttcacgcctc gtcaggcaat cctaactctg 24420

cagacctcgt cctctgagcc gcgctctgga ggcattggaa ctctgcaatt tattgaggag 24480

tttgtgccat cggtctactt taaccccttc tcgggacctc ccggccacta tccggatcaa 24540

tttattccta actttgacgc ggtaaaggac tcggcggacg gctacgactg aatgttaagt 24600

ggagaggcag agcaactgcg cctgaaacac ctggtccact gtcgccgcca caagtgcttt 24660

gcccgcgact ccggtgagtt ttgctacttt gaattgcccg aggatcatat cgagggcccg 24720

gcgcacggcg tccggcttac cgcccaggga gagcttgccc gtagcctgat tcgggagttt 24780

acccagcgcc ccctgctagt tgagcgggac aggggaccct gtgttctcac tgtgatttgc 24840

aactgtccta accttggatt acatcaagat ctttgttgcc atctctgtgc tgagtataat 24900

aaatacagaa attaaaatat actggggctc ctatcgccat cctgtaaacg ccaccgtctt 24960

cacccgccca agcaaaccaa ggcgaacctt acctggtact tttaacatct ctccctctgt 25020

gatttacaac agtttcaacc cagacggagt gagtctacga gagaacctct ccgagctcag 25080

ctactccatc agaaaaaaca ccaccctcct tacctgccgg gaacgtacga gtgcgtcacc 25140

ggccgctgca ccacacctac cgcctgaccg taaaccagac tttttccgga cagacctcaa 25200

taactctgtt taccagaaca ggaggtgagc ttagaaaacc cttagggtat taggccaaag 25260

gcgcagctac tgtggggttt atgaacaatt caagcaactc tacgggctat tctaattcag 25320

gtttctctag aaatggacgg aattattaca gagcagcgcc tgctagaaag acgcagggca 25380

gcggccgagc aacagcgcat gaatcaagag ctccaagaca tggttaactt gcaccagtgc 25440

aaaaggggta tcttttgtct ggtaaagcag gccaaagtca cctacgacag taataccacc 25500

ggacaccgcc ttagctacaa gttgccaacc aagcgtcaga aattggtggt catggtggga 25560

gaaaagccca ttaccataac tcagcactcg gtagaaaccg aaggctgcat tcactcacct 25620

tgtcaaggac ctgaggatct ctgcaccctt attaagaccc tgtgcggtct caaagatctt 25680

attcccttta actaataaaa aaaaataata aagcatcact tacttaaaat cagttagcaa 25740

atttctgtcc agtttattca gcagcacctc cttgccctcc tcccagctct ggtattgcag 25800

cttcctcctg gctgcaaact ttctccacaa tctaaatgga atgtcagttt cctcctgttc 25860

ctgtccatcc gcacccacta tcttcatgtt gttgcagatg aagcgcgcaa gaccgtctga 25920

agataccttc aaccccgtgt atccatatga cacggaaacc ggtcctccaa ctgtgccttt 25980

tcttactcct ccctttgtat cccccaatgg gtttcaagag agtccccctg gggtactctc 26040

tttgcgccta tccgaacctc tagttacctc caatggcatg cttgcgctca aaatgggcaa 26100

cggcctctct ctggacgagg ccggcaacct tacctcccaa aatgtaacca ctgtgagccc 26160

acctctcaaa aaaaccaagt caaacataaa cctggaaata tctgcacccc tcacagttac 26220

ctcagaagcc ctaactgtgg ctgccgccgc acctctaatg gtcgcgggca acacactcac 26280

catgcaatca caggccccgc taaccgtgca cgactccaaa cttagcattg ccacccaagg 26340

acccctcaca gtgtcagaag gaaagctagc cctgcaaaca tcaggccccc tcaccaccac 26400

cgatagcagt acccttacta tcactgcctc acccccctcta actactgcca ctggtagctt 26460

gggcattgac ttgaaagagc ccatttatac acaaaatgga aaactaggac taaagtacgg 26520

ggctcctttg catgtaacag acgacctaaa cactttgacc gtagcaactg gtccaggtgt 26580

gactattaat aatacttcct tgcaaactaa agttactgga gccttgggtt ttgattcaca 26640

aggcaatatg caacttaatg tagcaggagg actaaggatt gattctcaaa acagacgcct 26700

tatacttgat gttagttatc cgtttgatgc tcaaaaccaa ctaaatctaa gactaggaca 26760

gggccctctt tttataaact cagcccacaa cttggatatt aactacaaca aaggccttta 26820

cttgtttaca gcttcaaaca attccaaaaa gcttgaggtt aacctaagca ctgccaaggg 26880

gttgatgttt gacgctacag ccatagccat taatgcagga gatgggcttg aatttggttc 26940

acctaatgca ccaaacacaa atcccctcaa aacaaaaatt ggccatggcc tagaatttga 27000

ttcaaacaag gctatggttc ctaaactagg aactggcctt agttttgaca gcacaggtgc 27060

cattacagta ggaaacaaaa ataatgataa gctaactttg tggaccacac cagctccatc 27120

tcctaactgt agactaaatg cagagaaaga tgctaaactc actttggtct taacaaaatg 27180

tggcagtcaa atacttgcta cagtttcagt tttggctgtt aaaggcagtt tggctccaat 27240

atctggaaca gttcaaagtg ctcatcttat tataagattt gacgaaaatg gagtgctact 27300

aaacaattcc ttcctggacc cagaatattg gaactttaga aatggagatc ttactgaagg 27360

cacagcctat acaaacgctg ttggatttat gcctaaccta tcagcttatc caaaatctca 27420

cggtaaaact gccaaaagta acattgtcag tcaagtttac ttaaacggag acaaaactaa 27480

acctgtaaca ctaaccatta cactaaacgg tacacaggaa acaggagaca caactccaag 27540

tgcatactct atgtcatttt catgggactg gtctggccac aactacatta atgaaatatt 27600

tgccacatcc tcttacactt tttcatacat tgcccaagaa taaagaatcg tttgtgttat 27660

gtttcaacgt gtttattttt caattgcaga aaatttcgaa tcatttttca ttcagtagta 27720

tagccccacc accacatagc ttatacagat caccgtacct taatcaaact cacagaaccc 27780

tagtattcaa cctgccacct ccctcccaac acacagagta cacagtcctt tctccccggc 27840

tggccttaaa aagcatcata tcatgggtaa cagacatatt cttaggtgtt atattccaca 27900

cggtttcctg tcgagccaaa cgctcatcag tgatattaat aaactccccg ggcagctcac 27960

ttaagttcat gtcgctgtcc agctgctgag ccacaggctg ctgtccaact tgcggttgct 28020

taacgggcgg cgaaggagaa gtccacgcct acatgggggt agagtcataa tcgtgcatca 28080

ggatagggcg gtggtgctgc agcagcgcgc gaataaactg ctgccgccgc cgctccgtcc 28140

tgcaggaata caacatggca gtggtctcct cagcgatgat tcgcaccgcc cgcagcataa 28200

ggcgccttgt cctccgggca cagcagcgca ccctgatctc acttaaatca gcacagtaac 28260

tgcagcacag caccacaata ttgttcaaaa tcccacagtg caaggcgctg tatccaaagc 28320

tcatggcggg gaccacagaa cccacgtggc catcatacca caagcgcagg tagattaagt 28380

ggcgacccct cataaacacg ctggacataa acattacctc ttttggcatg ttgtaattca 28440

ccacctcccg gtaccatata aacctctgat taaacatggc gccatccacc accatcctaa 28500

accagctggc caaaacctgc ccgccggcta tacactgcag ggaaccggga ctggaacaat 28560

gacagtggag agcccaggac tcgtaaccat ggatcatcat gctcgtcatg atatcaatgt 28620

tggcacaaca caggcacacg tgcatacact tcctcaggat tacaagctcc tcccgcgtta 28680

gaaccatatc ccagggaaca acccattcct gaatcagcgt aaatcccaca ctgcagggaa 28740

gacctcgcac gtaactcacg ttgtgcattg tcaaagtgtt acattcgggc agcagcggat 28800

gatcctccag tatggtagcg cgggtttctg tctcaaaagg aggtagacga tccctactgt 28860

acggagtgcg ccgagacaac cgagatcgtg ttggtcgtag tgtcatgcca aatggaacgc 28920

cggacgtagt catatttcct gaagcaaaac caggtgcggg cgtgacaaac agatctgcgt 28980

ctccggtctc gccgcttaga tcgctctgtg tagtagttgt agtatatcca ctctctcaaa 29040

gcatccaggc gccccctggc ttcgggttct atgtaaactc cttcatgcgc cgctgccctg 29100

ataacatcca ccaccgcaga ataagccaca cccagccaac ctacacattc gttctgcgag 29160

tcacacacgg gaggagcggg aagagctgga agaaccatgt ttttttttt attccaaaag 29220

attatccaaa acctcaaaat gaagatctat taagtgaacg cgctcccctc cggtggcgtg 29280

gtcaaactct acagccaaag aacagataat ggcatttgta agatgttgca caatggcttc 29340

caaaaggcaa acggccctca cgtccaagtg gacgtaaagg ctaaaccctt cagggtgaat 29400

ctcctctata aacattccag caccttcaac catgcccaaa taattctcat ctcgccacct 29460

tctcaatata tctctaagca aatcccgaat attaagtccg gccattgtaa aaatctgctc 29520

cagagcgccc tccaccttca gcctcaagca gcgaatcatg attgcaaaaa ttcaggttcc 29580

tcacagacct gtataagatt caaaagcgga acattaacaa aaataccgcg atcccgtagg 29640

tcccttcgca gggccagctg aacataatcg tgcaggtctg cacggaccag cgcggccact 29700

tccccgccag gaaccttgac aaaagaaccc acactgatta tgacacgcat actcggagct 29760

atgctaacca gcgtagcccc gatgtaagct ttgttgcatg ggcggcgata taaaatgcaa 29820

ggtgctgctc aaaaaatcag gcaaagcctc gcgcaaaaaa gaaagcacat cgtagtcatg 29880

ctcatgcaga taaaggcagg taagctccgg aaccaccaca gaaaaagaca ccatttttct 29940

ctcaaacatg tctgcgggtt tctgcataaa cacaaaataa aataacaaaa aaacatttaa 30000

acattagaag cctgtcttac aacaggaaaa acaaccctta taagcataag acggactacg 30060

gccatgccgg cgtgaccgta aaaaaactgg tcaccgtgat taaaaagcac caccgacagc 30120

tcctcggtca tgtccggagt cataatgtaa gactcggtaa acacatcagg ttgattcaca 30180

tcggtcagtg ctaaaaagcg accgaaatag cccgggggaa tacatacccg caggcgtaga 30240

gacaacatta cagcccccat aggaggtata acaaaattaa taggagagaa aaacacataa 30300

acacctgaaa aaccctcctg cctaggcaaa atagcaccct cccgctccag aacaacatac 30360

agcgcttcca cagcggcagc cataacagtc agccttacca gtaaaaaaga aaacctatta 30420

aaaaaacacc actcgacacg gcaccagctc aatcagtcac agtgtaaaaa agggccaagt 30480

gcagagcgag tatatatagg actaaaaaat gacgtaacgg ttaaagtcca caaaaaacac 30540

ccagaaaacc gcacgcgaac ctacgcccag aaacgaaagc caaaaaaccc acaacttcct 30600

caaatcgtca cttccgtttt cccacgttac gtcacttccc attttaagaa aactacaatt 30660

cccaacacat acaagttact ccgccctaaa acctacgtca cccgccccgt tcccacgccc 30720

cgcgccacgt cacaaactcc acccccctcat tatcatattg gcttcaatcc aaaataaggt 30780

atattattga tgatgttaat taagggcggc cgcacgggcc atcgatgggg atccatccgc 30840

ggagaagctt ctcgaccaat tctcatgttt gacagcttat catcgaattt ctgccattca 30900

tccgcttatt atcacttatt caggcgtagc aaccaggcgt ttaagggcac caataactgc 30960

cttaaaaaaa ttacgccccg ccctgccact catcgcagta ctgttgtaat tcattaagca 31020

ttctgccgac atggaagcca tcacagacgg catgatgaac ctgaatcgcc agcggcatca 31080

gcaccttgtc gccttgcgta taatatttgc ccatggtgaa aacgggggcg aagaagttgt 31140

ccatattggc cacgtttaaa tcaaaactgg tgaaactcac ccagggattg gctgagacga 31200

aaaacatatt ctcaataaac cctttaggga aataggccag gttttcaccg taacacgcca 31260

catcttgcga atatatgtgt agaaactgcc ggaaatcgtc gtggtattca ctccagagcg 31320

atgaaaacgt ttcagtttgc tcatggaaaa cggtgtaaca agggtgaaca ctatcccata 31380

tcaccagctc accgtctttc attgccatac ggaattccgg atgagcattc atcaggcggg 31440

caagaatgtg aataaaggcc ggataaaact tgtgcttatt tttctttacg gtctttaaaa 31500

aggccgtaat atccagctga acggtctggt tataggtaca ttgagcaact gactgaaatg 31560

cctcaaaatg ttctttacga tgccattggg atatatcaac ggtggtatat ccagtgattt 31620

ttttctccat tttagcttcc ttagctcctg aaaatctcga taactcaaaa aatacgcccg 31680

gtagtgatct tatttcatta tggtgaaagt tggaacctct tacgtgccga tcaacgtctc 31740

attttcgcca aaagttggcc cagggcttcc cggtatcaac agggacacca ggatttattt 31800

attctgcgaa gtgatcttcc gtcacaggta tttattcgcg ataagctcat ggagcggcgt 31860

aaccgtcgca caggaaggac agagaaagcg cggatctggg aagtgacgga cagaacggtc 31920

aggacctgga ttggggaggc ggttgccgcc gctgctgctg acggtgtgac gttctctgtt 31980

ccggtcacac cacatacgtt ccgccattcc tatgcgatgc acatgctgta tgccggtata 32040

ccgctgaaag ttctgcaaag cctgatggga cataagtcca tcagttcaac ggaagtctac 32100

acgaaggttt ttgcgctgga tgtggctgcc cggcaccggg tgcagtttgc gatgccggag 32160

tctgatgcgg ttgcgatgct gaaacaatta tcctgagaat aaatgccttg gcctttatat 32220

ggaaatgtgg aactgagtgg atatgctgtt tttgtctgtt aaacagagaa gctggctgtt 32280

atccactgag aagcgaacga aacagtcggg aaaatctccc attatcgtag agatccgcat 32340

tattaatctc aggagcctgt gtagcgttta taggaagtag tgttctgtca tgatgcctgc 32400

aagcggtaac gaaaacgatt tgaatatgcc ttcaggaaca atagaaatct tcgtgcggtg 32460

ttacgttgaa gtggagcgga ttatgtcagc aatggacaga acaacctaat gaacacagaa 32520

ccatgatgtg gtctgtcctt ttacagccag taggctcgcc gcagtcgagc gacggcgaag 32580

ccctcgagtg agcgaggaag caccagggaa cagcacttat atattctgct tacacacgat 32640

gcctgaaaaa acttcccttg gggttatcca cttatccacg gggatatttt tataattatt 32700

ttttttatag tttttagatc ttctttttta gagcgccttg taggccttta tccatgctgg 32760

ttctagagaa ggtgttgtga caaattgccc tttcagtgtg acaaatcacc ctcaaatgac 32820

agtcctgtct gtgacaaatt gcccttaacc ctgtgacaaa ttgccctcag aagaagctgt 32880

tttttcacaa agttatccct gcttattgac tctttttttat ttagtgtgac aatctaaaaa 32940

cttgtcacac ttcacatgga tctgtcatgg cggaaacagc ggttatcaat cacaagaaac 33000

gtaaaaatag cccgcgaatc gtccagtcaa acgacctcac tgaggcggca tatagtctct 33060

cccgggatca aaaacgtatg ctgtatctgt tcgttgacca gatcagaaaa tctgatggca 33120

ccctacagga acatgacggt atctgcgaga tccatgttgc taaatatgct gaaatattcg 33180

gattgacctc tgcggaagcc agtaaggata tacggcaggc attgaagagt ttcgcgggga 33240

aggaagtggt tttttatcgc cctgaagagg atgccggcga tgaaaaaggc tatgaatctt 33300

ttccttggtt tatcaaacgt gcgcacagtc catccagagg gctttacagt gtacatatca 33360

acccatatct cattcccttc tttatcgggt tacagaaccg gtttacgcag tttcggctta 33420

gtgaaacaaa agaaatcacc aatccgtatg ccatgcgttt atacgaatcc ctgtgtcagt 33480

atcgtaagcc ggatggctca ggcatcgtct ctctgaaaat cgactggatc atagagcgtt 33540

accagctgcc tcaaagttac cagcgtatgc ctgacttccg ccgccgcttc ctgcaggtct 33600

gtgttaatga gatcaacagc agaactccaa tgcgcctctc atacattgag aaaaagaaag 33660

gccgccagac gactcatatc gtattttcct tccgcgatat cacttccatg acgacaggat 33720

agtctgaggg ttatctgtca cagatttgag ggtggttcgt cacatttgtt ctgacctact 33780

gagggtaatt tgtcacagtt ttgctgtttc cttcagcctg catggatttt ctcatacttt 33840

ttgaactgta atttttaagg aagccaaatt tgagggcagt ttgtcacagt tgatttcctt 33900

ctctttccct tcgtcatgtg acctgatatc gggggttagt tcgtcatcat tgatgagggt 33960

tgattatcac agtttattac tctgaattgg ctatccgcgt gtgtacctct acctggagtt 34020

tttcccacgg tggatatttc ttcttgcgct gagcgtaaga gctatctgac agaacagttc 34080

ttctttgctt cctcgccagt tcgctcgcta tgctcggtta cacggctgcg gcgagcgcta 34140

gtgataataa gtgactgagg tatgtgctct tcttatctcc ttttgtagtg ttgctcttat 34200

tttaaacaac tttgcggttt tttgatgact ttgcgatttt gttgttgctt tgcagtaaat 34260

tgcaagattt aataaaaaaa cgcaaagcaa tgattaaagg atgttcagaa tgaaactcat 34320

ggaaacactt aaccagtgca taaacgctgg tcatgaaatg acgaaggcta tcgccattgc 34380

acagtttaat gatgacagcc cggaagcgag gaaaataacc cggcgctgga gaataggtga 34440

agcagcggat ttagttgggg tttcttctca ggctatcaga gatgccgaga aagcagggcg 34500

actaccgcac ccggatatgg aaattcgagg acgggttgag caacgtgttg gttatacaat 34560

tgaacaaatt aatcatatgc gtgatgtgtt tggtacgcga ttgcgacgtg ctgaagacgt 34620

atttccaccg gtgatcgggg ttgctgccca taaaggtggc gtttacaaaa cctcagtttc 34680

tgttcatctt gctcaggatc tggctctgaa ggggctacgt gttttgctcg tggaaggtaa 34740

cgacccccag ggaacagcct caatgtatca cggatgggta ccagatcttc atattcatgc 34800

agaagacact ctcctgcctt tctatcttgg ggaaaaggac gatgtcactt atgcaataaa 34860

gcccacttgc tggccggggc ttgacattat tccttcctgt ctggctctgc accgtattga 34920

aactgagtta atgggcaaat ttgatgaagg taaactgccc accgatccac acctgatgct 34980

ccgactggcc attgaaactg ttgctcatga ctatgatgtc atagttattg acagcgcgcc 35040

taacctgggt atcggcacga ttaatgtcgt atgtgctgct gatgtgctga ttgttcccac 35100

gcctgctgag ttgtttgact acacctccgc actgcagttt ttcgatatgc ttcgtgatct 35160

gctcaagaac gttgatctta aagggttcga gcctgatgta cgtattttgc ttaccaaata 35220

cagcaatagt aatggctctc agtccccgtg gatggaggag caaattcggg atgcctgggg 35280

aagcatggtt ctaaaaaatg ttgtacgtga aacggatgaa gttggtaaag gtcagatccg 35340

gatgagaact gtttttgaac aggccattga tcaacgctct tcaactggtg cctggagaaa 35400

tgctctttct atttgggaac ctgtctgcaa tgaaattttc gatcgtctga ttaaaccacg 35460

ctgggagatt agataatgaa gcgtgcgcct gttattccaa aacatacgct caatactcaa 35520

ccggttgaag atacttcgtt atcgacacca gctgccccga tggtggattc gttaattgcg 35580

cgcgtaggag taatggctcg cggtaatgcc attactttgc ctgtatgtgg tcgggatgtg 35640

aagtttactc ttgaagtgct ccggggtgat agtgttgaga agacctctcg ggtatggtca 35700

ggtaatgaac gtgaccagga gctgcttact gaggacgcac tggatgatct catcccttct 35760

tttctactga ctggtcaaca gacaccggcg ttcggtcgaa gagtatctgg tgtcatagaa 35820

attgccgatg ggagtcgccg tcgtaaagct gctgcactta ccgaaagtga ttatcgtgtt 35880

ctggttggcg agctggatga tgagcagatg gctgcattat ccagattggg taacgattat 35940

cgcccaacaa gtgcttatga acgtggtcag cgttatgcaa gccgattgca gaatgaattt 36000

gctggaaata tttctgcgct ggctgatgcg gaaaatattt cacgtaagat tattacccgc 36060

tgtatcaaca ccgccaaatt gcctaaatca gttgttgctc ttttttctca ccccggtgaa 36120

ctatctgccc ggtcaggtga tgcacttcaa aaagccttta cagataaaga ggaattactt 36180

aagcagcagg catctaacct tcatgagcag aaaaaagctg gggtgatatt tgaagctgaa 36240

gaagttatca ctcttttaac ttctgtgctt aaaacgtcat ctgcatcaag aactagttta 36300

agctcacgac atcagtttgc tcctggagcg acagtattgt ataagggcga taaaatggtg 36360

cttaacctgg acaggtctcg tgttccaact gagtgtatag agaaaattga ggccattctt 36420

aaggaacttg aaaagccagc accctgatgc gaccacgttt tagtctacgt ttatctgtct 36480

ttacttaatg tcctttgtta caggccagaa agcataactg gcctgaatat tctctctggg 36540

cccactgttc cacttgtatc gtcggtctga taatcagact gggaccacgg tcccactcgt 36600

atcgtcggtc tgattattag tctgggacca cggtcccact cgtatcgtcg gtctgattat 36660

tagtctggga ccacggtccc actcgtatcg tcggtctgat aatcagactg ggaccacggt 36720

cccactcgta tcgtcggtct gattattagt ctgggaccat ggtcccactc gtatcgtcgg 36780

tctgattatt agtctgggac cacggtccca ctcgtatcgt cggtctgatt attagtctgg 36840

aaccacggtc ccactcgtat cgtcggtctg attattagtc tgggaccacg gtcccactcg 36900

tatcgtcggt ctgattatta gtctgggacc acgatcccac tcgtgttgtc ggtctgatta 36960

tcggtctggg accacggtcc cacttgtatt gtcgatcaga ctatcagcgt gagactacga 37020

ttccatcaat gcctgtcaag ggcaagtatt gacatgtcgt cgtaacctgt agaacggagt 37080

aacctcggtg tgcggttgta tgcctgctgt ggattgctgc tgtgtcctgc ttatccacaa 37140

cattttgcgc acggttatgt ggacaaaata cctggttacc caggccgtgc cggcacgtta 37200

accgggctgc atccgatgca agtgtgtcgc tgtcgagttt tcgggggagt ccagggtttt 37260

cccagtcacg acgttgtaaa acgacggcca gtgaattcga gctcggtacc cggggatctt 37320

<210> 3
<211> 36680
<212> DNA
<213> Artificial

<220>
<223> synthetic

<220>
<221> misc_feature
<222> (27952)..(27952)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (30222)..(30223)
<223> n is a, c, g, or t

<400> 3
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60

ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt 120

gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180

gtgtgcgccg gtgtacacag gaagtgacaa ttttcgcgcg gttttaggcg gatgttgtag 240

taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga 300

agtgaaatct gaataatttt gtgttactca tagcgcgtaa actggtaccc ggggatcttg 360

aagttcctat tccgaagttc ctattctcta gaaagtatag gaacttcaag agcgcttttg 420

agcttgttta tcgaattcaa gcttgtcgac tcgaagatct gggcgtggtt aagggtggga 480

aagaatatat aaggtggggg tcttatgtag ttttgtatct gttttgcagc agccgccgcc 540

gccatgagca ccaactcgtt tgatggaagc attgtgagct catatttgac aacgcgcatg 600

cccccatggg ccggggtgcg tcagaatgtg atgggctcca gcattgatgg tcgccccgtc 660

ctgcccgcaa actctactac cttgacctac gagaccgtgt ctggaacgcc gttggagact 720

gcagcctccg ccgccgcttc agccgctgca gccaccgccc gcgggattgt gactgacttt 780

gctttcctga gcccgcttgc aagcagtgca gcttcccgtt catccgcccg cgatgacaag 840

ttgacggctc ttttggcaca attggattct ttgacccggg aacttaatgt cgtttctcag 900

cagctgttgg atctgcgcca gcaggtttct gccctgaagg cttcctcccc tcccaatgcg 960

gtttaaaaca taaataaaaa accagactct gtttggattt ggatcaagca agtgtcttgc 1020

tgtctttatt taggggtttt gcgcgcgcgg taggcccggg accagcggtc tcggtcgttg 1080

agggtcctgt gtatttttc caggacgtgg taaaggtgac tctggatgtt cagatacatg 1140

ggcataagcc cgtctctggg gtggaggtag caccactgca gagcttcatg ctgcggggtg 1200

gtgttgtaga tgatccagtc gtagcaggag cgctgggcgt ggtgcctaaa aatgtctttc 1260

agtagcaagc tgattgccag gggcaggccc ttggtgtaag tgtttacaaa gcggttaagc 1320

tgggatgggt gcatacgtgg ggatatgaga tgcatcttgg actgtatttt taggttggct 1380

atgttcccag ccatatccct ccggggattc atgttgtgca gaaccaccag cacagtgtat 1440

ccggtgcact tgggaaattt gtcatgtagc ttagaaggaa atgcgtggaa gaacttggag 1500

acgcccttgt gacctccaag attttccatg cattcgtcca taatgatggc aatgggccca 1560

cgggcggcgg cctgggcgaa gatatttctg ggatcactaa cgtcatagtt gtgttccagg 1620

atgagatcgt cataggccat ttttacaaag cgcgggcgga gggtgccaga ctgcggtata 1680

atggttccat ccggcccagg ggcgtagtta ccctcacaga tttgcatttc ccacgctttg 1740

agttcagatg gggggatcat gtctacctgc ggggcgatga agaaaacggt ttccggggta 1800

ggggagatca gctgggaaga aagcaggttc ctgagcagct gcgacttacc gcagccggtg 1860

ggcccgtaaa tcacacctat taccgggtgc aactggtagt taagagagct gcagctgccg 1920

tcatccctga gcagggggggc cacttcgtta agcatgtccc tgactcgcat gttttccctg 1980

accaaatccg ccagaaggcg ctcgccgccc agcgatagca gttcttgcaa ggaagcaaag 2040

tttttcaacg gtttgagacc gtccgccgta ggcatgcttt tgagcgtttg accaagcagt 2100

tccaggcggt cccacagctc ggtcacctgc tctacggcat ctcgatccag catatctcct 2160

cgtttcgcgg gttggggcgg ctttcgctgt acggcagtag tcggtgctcg tccagacggg 2220

ccagggtcat gtctttccac gggcgcaggg tcctcgtcag cgtagtctgg gtcacggtga 2280

aggggtgcgc tccgggctgc gcgctggcca gggtgcgctt gaggctggtc ctgctggtgc 2340

tgaagcgctg ccggtcttcg ccctgcgcgt cggccaggta gcatttgacc atggtgtcat 2400

agtccagccc ctccgcggcg tggcccttgg cgcgcagctt gcccttggag gaggcgccgc 2460

acgaggggca gtgcagactt ttgagggcgt agagcttggg cgcgagaaat accgattccg 2520

gggagtaggc atccgcgccg caggccccgc agacggtctc gcattccacg agccaggtga 2580

gctctggccg ttcggggtca aaaaccaggt ttcccccatg ctttttgatg cgtttcttac 2640

ctctggtttc catgagccgg tgtccacgct cggtgacgaa aaggctgtcc gtgtccccgt 2700

atacagactt gagaggcctg tcctcgagcg gtgttccgcg gtcctcctcg tatagaaact 2760

cggaccactc tgagacaaag gctcgcgtcc aggccagcac gaaggaggct aagtgggagg 2820

ggtagcggtc gttgtccact agggggtcca ctcgctccag ggtgtgaaga cacatgtcgc 2880

cctcttcggc atcaaggaag gtgattggtt tgtaggtgta ggccacgtga ccgggtgttc 2940

ctgaaggggg gctataaaag ggggtggggg cgcgttcgtc ctcactctct tccgcatcgc 3000

tgtctgcgag ggccagctgt tggggtgagt actccctctg aaaagcgggc atgacttctg 3060

cgctaagatt gtcagtttcc aaaaacgagg aggatttgat attcacctgg cccgcggtga 3120

tgcctttgag ggtggccgca tccatctggt cagaaaagac aatctttttg ttgtcaagct 3180

tggtggcaaa cgacccgtag agggcgttgg acagcaactt ggcgatggag cgcagggttt 3240

ggtttttgtc gcgatcggcg cgctccttgg ccgcgatgtt tagctgcacg tattcgcgcg 3300

caacgcaccg ccattcggga aagacggtgg tgcgctcgtc gggcaccagg tgcacgcgcc 3360

aaccgcggtt gtgcagggtg acaaggtcaa cgctggtggc tacctctccg cgtaggcgct 3420

cgttggtcca gcagaggcgg ccgcccttgc gcgagcagaa tggcggtagg gggtctagct 3480

gcgtctcgtc cgggggggtct gcgtccacgg taaagacccc gggcagcagg cgcgcgtcga 3540

agtagtctat cttgcatcct tgcaagtcta gcgcctgctg ccatgcgcgg gcggcaagcg 3600

cgcgctcgta tgggttgagt gggggacccc atggcatggg gtgggtgagc gcggaggcgt 3660

acatgccgca aatgtcgtaa acgtagaggg gctctctgag tattccaaga tatgtagggt 3720

agcatcttcc accgcggatg ctggcgcgca cgtaatcgta tagttcgtgc gagggagcga 3780

ggaggtcggg accgaggttg ctacgggcgg gctgctctgc tcggaagact atctgcctga 3840

agatggcatg tgagttggat gatatggttg gacgctggaa gacgttgaag ctggcgtctg 3900

tgagacctac cgcgtcacgc acgaaggagg cgtaggagtc gcgcagcttg ttgaccagct 3960

cggcggtgac ctgcacgtct agggcgcagt agtccagggt ttccttgatg atgtcatact 4020

tatcctgtcc ctttttttte cacagctcgc ggttgaggac aaactcttcg cggtctttcc 4080

agtactcttg gatcggaaac ccgtcggcct ccgaacggta agagcctagc atgtagaact 4140

ggttgacggc ctggtaggcg cagcatccct tttctacggg tagcgcgtat gcctgcgcgg 4200

ccttccggag cgaggtgtgg gtgagcgcaa aggtgtccct gaccatgact ttgaggtact 4260

ggtatttgaa gtcagtgtcg tcgcatccgc cctgctccca gagcaaaaag tccgtgcgct 4320

ttttggaacg cggatttggc agggcgaagg tgacatcgtt gaagagtatc tttcccgcgc 4380

gaggcataaa gttgcgtgtg atgcggaagg gtcccggcac ctcggaacgg ttgttaatta 4440

cctgggcggc gagcacgatc tcgtcaaagc cgttgatgtt gtggcccaca atgtaaagtt 4500

ccaagaagcg cgggatgccc ttgatggaag gcaatttttt aagttcctcg taggtgagct 4560

cttcagggga gctgagcccg tgctctgaaa gggcccagtc tgcaagatga gggttggaag 4620

cgacgaatga gctccacagg tcacgggcca ttagcatttg caggtggtcg cgaaaggtcc 4680

taaactggcg acctatggcc atttttttctg gggtgatgca gtagaaggta agcgggtctt 4740

gttcccagcg gtcccatcca aggttcgcgg ctaggtctcg cgcggcagtc actagaggct 4800

catctccgcc gaacttcatg accagcatga agggcacgag ctgcttccca aaggccccca 4860

tccaagtata ggtctctaca tcgtaggtga caaagagacg ctcggtgcga ggatgcgagc 4920

cgatcgggaa gaactggatc tcccgccacc aattggagga gtggctattg atgtggtgaa 4980

agtagaagtc cctgcgacgg gccgaacact cgtgctggct tttgtaaaaa cgtgcgcagt 5040

actggcagcg gtgcacgggc tgtacatcct gcacgaggtt gacctgacga ccgcgcacaa 5100

ggaagcagag tgggaatttg agcccctcgc ctggcgggtt tggctggtgg tcttctactt 5160

cggctgcttg tccttgaccg tctggctgct cgaggggagt tacggtggat cggaccacca 5220

cgccgcgcga gcccaaagtc cagatgtccg cgcgcggcgg tcggagcttg atgacaacat 5280

cgcgcagatg ggagctgtcc atggtctgga gctcccgcgg cgtcaggtca ggcgggagct 5340

cctgcaggtt tacctcgcat agacgggtca gggcgcgggc tagatccagg tgatacctaa 5400

tttccagggg ctggttggtg gcggcgtcga tggcttgcaa gaggccgcat ccccgcggcg 5460

cgactacggt accgcgcggc gggcggtggg ccgcgggggt gtccttggat gatgcatcta 5520

aaagcggtga cgcgggcgag cccccggagg taggggggge tccggacccg ccgggagagg 5580

gggcaggggc acgtcggcgc cgcgcgcggg caggagctgg tgctgcgcgc gtaggttgct 5640

ggcgaacgcg acgacgcggc ggttgatctc ctgaatctgg cgcctctgcg tgaagacgac 5700

gggcccggtg agcttgagcc tgaaagagag ttcgacagaa tcaatttcgg tgtcgttgac 5760

ggcggcctgg cgcaaaatct cctgcacgtc tcctgagttg tcttgatagg cgatctcggc 5820

catgaactgc tcgatctctt cctcctggag atctccgcgt ccggctcgct ccacggtggc 5880

ggcgaggtcg ttggaaatgc gggccatgag ctgcgagaag gcgttgaggc ctccctcgtt 5940

ccagacgcgg ctgtagacca cgccccttc ggcatcgcgg gcgcgcatga ccacctgcgc 6000

gagattgagc tccacgtgcc gggcgaagac ggcgtagttt cgcaggcgct gaaagaggta 6060

gttgagggtg gtggcggtgt gttctgccac gaagaagtac ataacccagc gtcgcaacgt 6120

ggattcgttg atatccccca aggcctcaag gcgctccatg gcctcgtaga agtccacggc 6180

gaagttgaaa aactgggagt tgcgcgccga cacggttaac tcctcctcca gaagacggat 6240

gagctcggcg acagtgtcgc gcacctcgcg ctcaaaggct acaggggcct cttcttcttc 6300

ttcaatctcc tcttccataa gggcctcccc ttcttcttct tctggcggcg gtgggggagg 6360

ggggacacgg cggcgacgac ggcgcaccgg gaggcggtcg acaaagcgct cgatcatctc 6420

cccgcggcga cggcgcatgg tctcggtgac ggcgcggccg ttctcgcggg ggcgcagttg 6480

gaagacgccg cccgtcatgt cccggttatg ggttggcggg gggctgccat gcggcaggga 6540

tacggcgcta acgatgcatc tcaacaattg ttgtgtaggt actccgccgc cgagggacct 6600

gagcgagtcc gcatcgaccg gatcggaaaa cctctcgaga aaggcgtcta accagtcaca 6660

gtcgcaaggt aggctgagca ccgtggcggg cggcagcggg cggcggtcgg ggttgtttct 6720

ggcggaggtg ctgctgatga tgtaattaaa gtaggcggtc ttgagacggc ggatggtcga 6780

cagaagcacc atgtccttgg gtccggcctg ctgaatgcgc aggcggtcgg ccatgcccca 6840

ggcttcgttt tgacatcggc gcaggtcttt gtagtagtct tgcatgagcc tttctaccgg 6900

cacttcttct tctccttcct cttgtcctgc atctcttgca tctatcgctg cggcggcggc 6960

ggagtttggc cgtaggtggc gccctcttcc tcccatgcgt gtgaccccga agcccctcat 7020

cggctgaagc agggctaggt cggcgacaac gcgctcggct aatatggcct gctgcacctg 7080

cgtgagggta gactggaagt catccatgtc cacaaagcgg tggtatgcgc ccgtgttgat 7140

ggtgtaagtg cagttggcca taacggacca gttaacggtc tggtgacccg gctgcgagag 7200

ctcggtgtac ctgagacgcg agtaagccct cgagtcaaat acgtagtcgt tgcaagtccg 7260

caccaggtac tggtatccca ccaaaaagtg cggcggcggc tggcggtaga ggggccagcg 7320

tagggtggcc ggggctccgg gggcgagatc ttccaacata aggcgatgat atccgtagat 7380

gtacctggac atccaggtga tgccggcggc ggtggtggag gcgcgcggaa agtcgcggac 7440

gcggttccag atgttgcgca gcggcaaaaa gtgctccatg gtcgggacgc tctggccggt 7500

caggcgcgcg caatcgttga cgctctaccg tgcaaaagga gagcctgtaa gcgggcactc 7560

ttccgtggtc tggtggataa attcgcaagg gtatcatggc ggacgaccgg ggttcgagcc 7620

ccgtatccgg ccgtccgccg tgatccatgc ggttaccgcc cgcgtgtcga acccaggtgt 7680

gcgacgtcag acaacggggg agtgctcctt ttggcttcct tccaggcgcg gcggctgctg 7740

cgctagcttt tttggccact ggccgcgcgc agcgtaagcg gttaggctgg aaagcgaaag 7800

cattaagtgg ctcgctccct gtagccggag ggttattttc caagggttga gtcgcgggac 7860

ccccggttcg agtctcggac cggccggact gcggcgaacg ggggtttgcc tccccgtcat 7920

gcaagacccc gcttgcaaat tcctccggaa acagggacga gccccttttt tgcttttccc 7980

agatgcatcc ggtgctgcgg cagatgcgcc cccctcctca gcagcggcaa gagcaagagc 8040

agcggcagac atgcagggca ccctcccctc ctcctaccgc gtcaggaggg gcgacatccg 8100

cggttgacgc ggcagcagat ggtgattacg aacccccgcg gcgccgggcc cggcactacc 8160

tggacttgga ggagggcgag ggcctggcgc ggctaggagc gccctctcct gagcggtacc 8220

caagggtgca gctgaagcgt gatacgcgtg aggcgtacgt gccgcggcag aacctgtttc 8280

gcgaccgcga gggagaggag cccgaggaga tgcgggatcg aaagttccac gcagggcgcg 8340

agctgcggca tggcctgaat cgcgagcggt tgctgcgcga ggaggacttt gagcccgacg 8400

cgcgaaccgg gattagtccc gcgcgcgcac acgtggcggc cgccgacctg gtaaccgcat 8460

acgagcagac ggtgaaccag gagattaact ttcaaaaaag ctttaacaac cacgtgcgta 8520

cgcttgtggc gcgcgaggag gtggctatag gactgatgca tctgtgggac tttgtaagcg 8580

cgctggagca aaacccaaat agcaagccgc tcatggcgca gctgttcctt atagtgcagc 8640

acagcaggga caacgaggca ttcagggatg cgctgctaaa catagtagag cccgagggcc 8700

gctggctgct cgatttgata aacatcctgc agagcatagt ggtgcaggag cgcagcttga 8760

gcctggctga caaggtggcc gccatcaact attccatgct tagcctgggc aagttttacg 8820

cccgcaagat ataccatacc ccttacgttc ccatagacaa ggaggtaaag atcgaggggt 8880

tctacatgcg catggcgctg aaggtgctta ccttgagcga cgacctgggc gtttatcgca 8940

acgagcgcat ccacaaggcc gtgagcgtga gccggcggcg cgagctcagc gaccgcgagc 9000

tgatgcacag cctgcaaagg gccctggctg gcacgggcag cggcgataga gaggccgagt 9060

cctactttga cgcgggcgct gacctgcgct gggccccaag ccgacgcgcc ctggaggcag 9120

ctggggccgg acctgggctg gcggtggcac ccgcgcgcgc tggcaacgtc ggcggcgtgg 9180

aggaatatga cgaggacgat gagtacgagc cagaggacgg cgagtactaa gcggtgatgt 9240

ttctgatcag atgatgcaag acgcaacgga cccggcggtg cgggcggcgc tgcagagcca 9300

gccgtccggc cttaactcca cggacgactg gcgccaggtc atggaccgca tcatgtcgct 9360

gactgcgcgc aatcctgacg cgttccggca gcagccgcag gccaaccggc tctccgcaat 9420

tctggaagcg gtggtcccgg cgcgcgcaaa ccccacgcac gagaaggtgc tggcgatcgt 9480

aaacgcgctg gccgaaaaca gggccatccg gcccgacgag gccggcctgg tctacgacgc 9540

gctgcttcag cgcgtggctc gttacaacag cggcaacgtg cagaccaacc tggaccggct 9600

ggtgggggat gtgcgcgagg ccgtggcgca gcgtgagcgc gcgcagcagc agggcaacct 9660

gggctccatg gttgcactaa acgccttcct gagtacacag cccgccaacg tgccgcgggg 9720

acaggaggac tacaccaact ttgtgagcgc actgcggcta atggtgactg agacaccgca 9780

aagtgaggtg taccagtctg ggccagacta ttttttccag accagtagac aaggcctgca 9840

gaccgtaaac ctgagccagg ctttcaaaaa cttgcagggg ctgtgggggg tgcgggctcc 9900

cacaggcgac cgcgcgaccg tgtctagctt gctgacgccc aactcgcgcc tgttgctgct 9960

gctaatagcg cccttcacgg acagtggcag cgtgtcccgg gacacatacc taggtcactt 10020

gctgacactg taccgcgagg ccataggtca ggcgcatgtg gacgagcata ctttccagga 10080

gattacaagt gtcagccgcg cgctggggca ggaggacacg ggcagcctgg aggcaaccct 10140

aaactacctg ctgaccaacc ggcggcagaa gatcccctcg ttgcacagtt taaacagcga 10200

ggaggagcgc attttgcgct acgtgcagca gagcgtgagc cttaacctga tgcgcgacgg 10260

ggtaacgccc agcgtggcgc tggacatgac cgcgcgcaac atggaaccgg gcatgtatgc 10320

ctcaaaccgg ccgtttatca accgcctaat ggactacttg catcgcgcgg ccgccgtgaa 10380

ccccgagtat ttcaccaatg ccatcttgaa cccgcactgg ctaccgcccc ctggtttcta 10440

caccgggggа ttcgaggtgc ccgagggtaa cgatggattc ctctgggacg acatagacga 10500

cagcgtgttt tccccgcaac cgcagaccct gctagagttg caacagcgcg agcaggcaga 10560

ggcggcgctg cgaaaggaaa gcttccgcag gccaagcagc ttgtccgatc taggcgctgc 10620

ggccccgcgg tcagatgcta gtagcccatt tccaagcttg atagggtctc ttaccagcac 10680

tcgcaccacc cgcccgcgcc tgctgggcga ggaggagtac ctaaacaact cgctgctgca 10740

gccgcagcgc gaaaaaaacc tgcctccggc atttcccaac aacgggatag agagcctagt 10800

ggacaagatg agtagatgga agacgtacgc gcaggagcac agggacgtgc caggcccgcg 10860

cccgcccacc cgtcgtcaaa ggcacgaccg tcagcggggt ctggtgtggg aggacgatga 10920

ctcggcagac gacagcagcg tcctggattt gggagggagt ggcaacccgt ttgcgcacct 10980

tcgccccagg ctggggagaa tgttttaaaa aaaaaaaagc atgatgcaaa ataaaaaact 11040

caccaaggcc atggcaccga gcgttggttt tcttgtattc cccttagtat gcggcgcgcg 11100

gcgatgtatg aggaaggtcc tcctccctcc tacgagagtg tggtgagcgc ggcgccagtg 11160

gcggcggcgc tgggttctcc cttcgatgct cccctggacc cgccgtttgt gcctccgcgg 11220

tacctgcggc ctaccggggg gagaaacagc atccgttact ctgagttggc acccctattc 11280

gacaccaccc gtgtgtacct ggtggacaac aagtcaacgg atgtggcatc cctgaactac 11340

cagaacgacc acagcaactt tctgaccacg gtcattcaaa acaatgacta cagcccgggg 11400

gaggcaagca cacagaccat caatcttgac gaccggtcgc actggggcgg cgacctgaaa 11460

accatcctgc ataccaacat gccaaatgtg aacgagttca tgtttaccaa taagtttaag 11520

gcgcgggtga tggtgtcgcg cttgcctact aaggacaatc aggtggagct gaaatacgag 11580

tgggtggagt tcacgctgcc cgagggcaac tactccgaga ccatgaccat agaccttatg 11640

aacaacgcga tcgtggagca ctacttgaaa gtgggcagac agaacggggt tctggaaagc 11700

gacatcgggg taaagtttga cacccgcaac ttcagactgg ggtttgaccc cgtcactggt 11760

cttgtcatgc ctggggtata tacaaacgaa gccttccatc cagacatcat tttgctgcca 11820

ggatgcgggg tggacttcac ccacagccgc ctgagcaact tgttgggcat ccgcaagcgg 11880

caacccttcc aggagggctt taggatcacc tacgatgatc tggagggtgg taacattccc 11940

gcactgttgg atgtggacgc ctaccaggcg agcttgaaag atgacaccga acagggcggg 12000

ggtggcgcag gcggcagcaa cagcagtggc agcggcgcgg aagagaactc caacgcggca 12060

gccgcggcaa tgcagccggt ggaggacatg aacgatcatg ccattcgcgg cgacaccttt 12120

gccacacggg ctgaggagaa gcgcgctgag gccgaagcag cggccgaagc tgccgccccc 12180

gctgcgcaac ccgaggtcga gaagcctcag aagaaaccgg tgatcaaacc cctgacagag 12240

gacagcaaga aacgcagtta caacctaata agcaatgaca gcaccttcac ccagtaccgc 12300

agctggtacc ttgcatacaa ctacggcgac cctcagaccg gaatccgctc atggaccctg 12360

ctttgcactc ctgacgtaac ctgcggctcg gagcaggtct actggtcgtt gccagacatg 12420

atgcaagacc ccgtgacctt ccgctccacg cgccagatca gcaactttcc ggtggtgggc 12480

gccgagctgt tgcccgtgca ctccaagagc ttctacaacg accaggccgt ctactcccaa 12540

ctcatccgcc agtttacctc tctgacccac gtgttcaatc gctttcccga gaaccagatt 12600

ttggcgcgcc cgccagcccc caccatcacc accgtcagtg aaaacgttcc tgctctcaca 12660

gatcacggga cgctaccgct gcgcaacagc atcggaggag tccagcgagt gaccattact 12720

gacgccagac gccgcacctg cccctacgtt tacaaggccc tgggcatagt ctcgccgcgc 12780

gtcctatcga gccgcacttt ttgagcaagc atgtccatcc ttatatcgcc cagcaataac 12840

acaggctggg gcctgcgctt cccaagcaag atgtttggcg gggccaagaa gcgctccgac 12900

caacacccag tgcgcgtgcg cgggcactac cgcgcgccct ggggcgcgca caaacgcggc 12960

cgcactgggc gcaccaccgt cgatgacgcc atcgacgcgg tggtggagga ggcgcgcaac 13020

tacacgccca cgccgccacc agtgtccaca gtggacgcgg ccattcagac cgtggtgcgc 13080

ggagcccggc gctatgctaa aatgaagaga cggcggaggc gcgtagcacg tcgccaccgc 13140

cgccgacccg gcactgccgc ccaacgcgcg gcggcggccc tgcttaaccg cgcacgtcgc 13200

accggccgac gggcggccat gcgggccgct cgaaggctgg ccgcgggtat tgtcactgtg 13260

ccccccaggt ccaggcgacg agcggccgcc gcagcagccg cggccattag tgctatgact 13320

cagggtcgca ggggcaacgt gtattgggtg cgcgactcgg ttagcggcct gcgcgtgccc 13380

gtgcgcaccc gccccccgcg caactagatt gcaagaaaaa actacttaga ctcgtactgt 13440

tgtatgtatc cagcggcggc ggcgcgcaac gaagctatgt ccaagcgcaa aatcaaagaa 13500

gagatgctcc aggtcatcgc gccggagatc tatggccccc cgaagaagga agagcaggat 13560

tacaagcccc gaaagctaaa gcgggtcaaa aagaaaaaga aagatgatga tgatgaactt 13620

gacgacgagg tggaactgct gcacgctacc gcgcccaggc gacgggtaca gtggaaaggt 13680

cgacgcgtaa aacgtgtttt gcgacccggc accaccgtag tctttacgcc cggtgagcgc 13740

tccacccgca cctacaagcg cgtgtatgat gaggtgtacg gcgacgagga cctgcttgag 13800

caggccaacg agcgcctcgg ggagtttgcc tacggaaagc ggcataagga catgctggcg 13860

ttgccgctgg acgagggcaa cccaacacct agcctaaagc ccgtaacact gcagcaggtg 13920

ctgcccgcgc ttgcaccgtc cgaagaaaag cgcggcctaa agcgcgagtc tggtgacttg 13980

gcacccaccg tgcagctgat ggtacccaag cgccagcgac tggaagatgt cttggaaaaa 14040

atgaccgtgg aacctgggct ggagcccgag gtccgcgtgc ggccaatcaa gcaggtggcg 14100

ccgggactgg gcgtgcagac cgtggacgtt cagataccca ctaccagtag caccagtatt 14160

gccaccgcca cagagggcat ggagacacaa acgtccccgg ttgcctcagc ggtggcggat 14220

gccgcggtgc aggcggtcgc tgcggccgcg tccaagacct ctacggaggt gcaaacggac 14280

ccgtggatgt ttcgcgtttc agccccccgg cgcccgcgcg gttcgaggaa gtacggcgcc 14340

gccagcgcgc tactgcccga atatgcccta catccttcca ttgcgcctac ccccggctat 14400

cgtggctaca cctaccgccc cagaagacga gcaactaccc gacgccgaac caccactgga 14460

acccgccgcc gccgtcgccg tcgccagccc gtgctggccc cgatttccgt gcgcagggtg 14520

gctcgcgaag gaggcaggac cctggtgctg ccaacagcgc gctaccaccc cagcatcgtt 14580

taaaagccgg tctttgtggt tcttgcagat atggccctca cctgccgcct ccgtttcccg 14640

gtgccgggat tccgaggaag aatgcaccgt aggaggggca tggccggcca cggcctgacg 14700

ggcggcatgc gtcgtgcgca ccaccggcgg cggcgcgcgt cgcaccgtcg catgcgcggc 14760

ggtatcctgc ccctccttat tccactgatc gccgcggcga ttggcgccgt gcccggaatt 14820

gcatccgtgg ccttgcaggc gcagagacac tgattaaaaa caagttgcat gtggaaaaat 14880

caaaataaaa agtctggact ctcacgctcg cttggtcctg taactatttt gtagaatgga 14940

agacatcaac tttgcgtctc tggccccgcg acacggctcg cgcccgttca tgggaaactg 15000

gcaagatatc ggcaccagca atatgagcgg tggcgccttc agctggggct cgctgtggag 15060

cggcattaaa aatttcggtt ccaccgttaa gaactatggc agcaaggcct ggaacagcag 15120

cacaggccag atgctgaggg ataagttgaa agagcaaaat ttccaacaaa aggtggtaga 15180

tggcctggcc tctggcatta gcggggtggt ggacctggcc aaccaggcag tgcaaaataa 15240

gattaacagt aagcttgatc cccgccctcc cgtagaggag cctccaccgg ccgtggagac 15300

agtgtctcca gaggggcgtg gcgaaaagcg tccgcgcccc gacagggaag aaactctggt 15360

gacgcaaata gacgagcctc cctcgtacga ggaggcacta aagcaaggcc tgcccaccac 15420

ccgtcccatc gcgcccatgg ctaccggagt gctgggccag cacacacccg taacgctgga 15480

cctgcctccc cccgccgaca cccagcagaa acctgtgctg ccaggcccga ccgccgttgt 15540

tgtaacccgt cctagccgcg cgtccctgcg ccgcgccgcc agcggtccgc gatcgttgcg 15600

gcccgtagcc agtggcaact ggcaaagcac actgaacagc atcgtgggtc tgggggtgca 15660

atccctgaag cgccgacgat gcttctgaat agctaacgtg tcgtatgtgt gtcatgtatg 15720

cgtccatgtc gccgccagag gagctgctga gccgccgcgc gcccgctttc caagatggct 15780

acccccttcga tgatgccgca gtggtcttac atgcacatct cgggccagga cgcctcggag 15840

tacctgagcc ccgggctggt gcagtttgcc cgcgccaccg agacgtactt cagcctgaat 15900

aacaagttta gaaaccccac ggtggcgcct acgcacgacg tgaccacaga ccggtcccag 15960

cgtttgacgc tgcggttcat ccctgtggac cgtgaggata ctgcgtactc gtacaaggcg 16020

cggttcaccc tagctgtggg tgataaccgt gtgctggaca tggcttccac gtactttgac 16080

atccgcggcg tgctggacag gggccctact tttaagccct actctggcac tgcctacaac 16140

gccctggctc ccaagggtgc cccaaatcct tgcgaatggg atgaagctgc tactgctctt 16200

gaaataaacc tagaagaaga ggacgatgac aacgaagacg aagtagacga gcaagctgag 16260

cagcaaaaaa ctcacgtatt tgggcaggcg ccttattctg gtataaatat tacaaaggag 16320

ggtattcaaa taggtgtcga aggtcaaaca cctaaatatg ccgataaaac atttcaacct 16380

gaacctcaaa taggagaatc tcagtggtac gaaactgaaa ttaatcatgc agctgggaga 16440

gtccttaaaa agactacccc aatgaaacca tgttacggtt catatgcaaa acccacaaat 16500

gaaaatggag ggcaaggcat tcttgtaaag caacaaaatg gaaagctaga aagtcaagtg 16560

gaaatgcaat ttttctcaac tactgaggcg accgcaggca atggtgataa cttgactcct 16620

aaagtggtat tgtacagtga agatgtagat atagaaaccc cagacactca tatttcttac 16680

atgcccacta ttaaggaagg taactcacga gaactaatgg gccaacaatc tatgcccaac 16740

aggcctaatt acattgcttt tagggacaat tttattggtc taatgtatta caacagcacg 16800

ggtaatatgg gtgttctggc gggccaagca tcgcagttga atgctgttgt agatttgcaa 16860

gacagaaaca cagagctttc ataccagctt ttgcttgatt ccattggtga tagaaccagg 16920

tacttttcta tgtggaatca ggctgttgac agctatgatc cagatgttag aattattgaa 16980

aatcatggaa ctgaagatga acttccaaat tactgctttc cactgggagg tgtgattaat 17040

acagagactc ttaccaaggt aaaacctaaa acaggtcagg aaaatggatg ggaaaaagat 17100

gctacagaat tttcagataa aaatgaaata agagttggaa ataattttgc catggaaatc 17160

aatctaaatg ccaacctgtg gagaaatttc ctgtactcca acatagcgct gtatttgccc 17220

gacaagctaa agtacagtcc ttccaacgta aaaatttctg ataacccaaa cacctacgac 17280

tacatgaaca agcgagtggt ggctcccggg ttagtggact gctacattaa ccttggagca 17340

cgctggtccc ttgactatat ggacaacgtc aacccattta accaccaccg caatgctggc 17400

ctgcgctacc gctcaatgtt gctgggcaat ggtcgctatg tgcccttcca catccaggtg 17460

cctcagaagt tctttgccat taaaaacctc cttctcctgc cgggctcata cacctacgag 17520

tggaacttca ggaaggatgt taacatggtt ctgcagagct ccctaggaaa tgacctaagg 17580

gttgacggag ccagcattaa gtttgatagc atttgccttt acgccacctt cttccccatg 17640

gcccacaaca ccgcctccac gcttgaggcc atgcttagaa acgacaccaa cgaccagtcc 17700

tttaacgact atctctccgc cgccaacatg ctctacccta tacccgccaa cgctaccaac 17760

gtgcccatat ccatcccctc ccgcaactgg gcggctttcc gcggctgggc cttcacgcgc 17820

cttaagacta aggaaacccc atcactgggc tcgggctacg acccttatta cacctactct 17880

ggctctatac cctacctaga tggaaccttt tacctcaacc acacctttaa gaaggtggcc 17940

attacctttg actcttctgt cagctggcct ggcaatgacc gcctgcttac ccccaacgag 18000

tttgaaatta agcgctcagt tgacggggag ggttacaacg ttgcccagtg taacatgacc 18060

aaagactggt tcctggtaca aatgctagct aactacaaca ttggctacca gggcttctat 18120

atcccagaga gctacaagga ccgcatgtac tccttcttta gaaacttcca gcccatgagc 18180

cgtcaggtgg tggatgatac taaatacaag gactaccaac aggtgggcat cctacaccaa 18240

cacaacaact ctggatttgt tggctacctt gcccccacca tgcgcgaagg acaggcctac 18300

cctgctaact tcccctatcc gcttataggc aagaccgcag ttgacagcat tacccagaaa 18360

aagtttcttt gcgatcgcac cctttggcgc atcccattct ccagtaactt tatgtccatg 18420

ggcgcactca cagacctggg ccaaaacctt ctctacgcca actccgccca cgcgctagac 18480

atgacttttg aggtggatcc catggacgag cccacccttc tttatgtttt gtttgaagtc 18540

tttgacgtgg tccgtgtgca ccggccgcac cgcggcgtca tcgaaaccgt gtacctgcgc 18600

acgcccttct cggccggcaa cgccacaaca taaagaagca agcaacatca acaacagctg 18660

ccgccatggg ctccagtgag caggaactga aagccattgt caaagatctt ggttgtgggc 18720

catatttttt gggcacctat gacaagcgct ttccaggctt tgtttctcca cacaagctcg 18780

cctgcgccat agtcaatacg gccggtcgcg agactggggg cgtacactgg atggcctttg 18840

cctggaaccc gcactcaaaa acatgctacc tctttgagcc ctttggcttt tctgaccagc 18900

gactcaagca ggtttaccag tttgagtacg agtcactcct gcgccgtagc gccattgctt 18960

cttcccccga ccgctgtata acgctggaaa agtccaccca aagcgtacag gggcccaact 19020

cggccgcctg tggactattc tgctgcatgt ttctccacgc ctttgccaac tggccccaaa 19080

ctcccatgga tcacaacccc accatgaacc ttattaccgg ggtacccaac tccatgctca 19140

acagtcccca ggtacagccc accctgcgtc gcaaccagga acagctctac agcttcctgg 19200

agcgccactc gccctacttc cgcagccaca gtgcgcagat taggagcgcc acttcttttt 19260

gtcacttgaa aaacatgtaa aaataatgta ctagagacac tttcaataaa ggcaaatgct 19320

tttatttgta cactctcggg tgattattta cccccaccct tgccgtctgc gccgtttaaa 19380

aatcaaaggg gttctgccgc gcatcgctat gcgccactgg cagggacacg ttgcgatact 19440

ggtgtttagt gctccactta aactcaggca caaccatccg cggcagctcg gtgaagtttt 19500

cactccacag gctgcgcacc atcaccaacg cgtttagcag gtcgggcgcc gatatcttga 19560

agtcgcagtt ggggcctccg ccctgcgcgc gcgagttgcg atacacaggg ttgcagcact 19620

ggaacactat cagcgccggg tggtgcacgc tggccagcac gctcttgtcg gagatcagat 19680

ccgcgtccag gtcctccgcg ttgctcaggg cgaacggagt caactttggt agctgccttc 19740

ccaaaaaggg cgcgtgccca ggctttgagt tgcactcgca ccgtagtggc atcaaaaggt 19800

gaccgtgccc ggtctgggcg ttaggataca gcgcctgcat aaaagccttg atctgcttaa 19860

aagccacctg agcctttgcg ccttcagaga agaacatgcc gcaagacttg ccggaaaact 19920

gattggccgg acaggccgcg tcgtgcacgc agcaccttgc gtcggtgttg gagatctgca 19980

ccacatttcg gccccaccgg ttcttcacga tcttggcctt gctagactgc tccttcagcg 20040

cgcgctgccc gttttcgctc gtcacatcca tttcaatcac gtgctcctta tttatcataa 20100

tgcttccgtg tagacactta agctcgcctt cgatctcagc gcagcggtgc agccacaacg 20160

cgcagcccgt gggctcgtga tgcttgtagg tcacctctgc aaacgactgc aggtacgcct 20220

gcaggaatcg ccccatcatc gtcacaaagg tcttgttgct ggtgaaggtc agctgcaacc 20280

cgcggtgctc ctcgttcagc caggtcttgc atacggccgc cagagcttcc acttggtcag 20340

gcagtagttt gaagttcgcc tttagatcgt tatccacgtg gtacttgtcc atcagcgcgc 20400

gcgcagcctc catgcccttc tcccacgcag acacgatcgg cacactcagc gggttcatca 20460

ccgtaatttc actttccgct tcgctgggct cttcctcttc ctcttgcgtc cgcataccac 20520

gcgccactgg gtcgtcttca ttcagccgcc gcactgtgcg cttacctcct ttgccatgct 20580

tgattagcac cggtgggttg ctgaaaccca ccatttgtag cgccacatct tctctttctt 20640

cctcgctgtc cacgattacc tctggtgatg gcgggcgctc gggcttggga gaagggcgct 20700

tctttttctt cttgggcgca atggccaaat ccgccgccga ggtcgatggc cgcgggctgg 20760

gtgtgcgcgg caccagcgcg tcttgtgatg agtcttcctc gtcctcggac tcgatacgcc 20820

gcctcatccg ctttttttggg ggcgcccggg gaggcggcgg cgacggggac ggggacgaca 20880

cgtcctccat ggttggggga cgtcgcgccg caccgcgtcc gcgctcgggg gtggtttcgc 20940

gctgctcctc ttcccgactg gccatttcct tctcctatag gcagaaaaag atcatggagt 21000

cagtcgagaa gaaggacagc ctaaccgccc cctctgagtt cgccaccacc gcctccaccg 21060

atgccgccaa cgcgcctacc accttccccg tcgaggcacc cccgcttgag gaggaggaag 21120

tgattatcga gcaggaccca ggttttgtaa gcgaagacga cgaggaccgc tcagtaccaa 21180

cagaggataa aaagcaagac caggacaacg cagaggcaaa cgaggaacaa gtcgggcggg 21240

gggacgaaag gcatggcgac tacctagatg tgggagacga cgtgctgttg aagcatctgc 21300

agcgccagtg cgccattatc tgcgacgcgt tgcaagagcg cagcgatgtg cccctcgcca 21360

tagcggatgt cagccttgcc tacgaacgcc acctattctc accgcgcgta ccccccaaac 21420

gccaagaaaa cggcacatgc gagcccaacc cgcgcctcaa cttctacccc gtatttgccg 21480

tgccagaggt gcttgccacc tatcacatct ttttccaaaa ctgcaagata cccctatcct 21540

gccgtgccaa ccgcagccga gcggacaagc agctggcctt gcggcagggc gctgtcatac 21600

ctgatatcgc ctcgctcaac gaagtgccaa aaatctttga gggtcttgga cgcgacgaga 21660

agcgcgcggc aaacgctctg caacaggaaa acagcgaaaa tgaaagtcac tctggagtgt 21720

tggtggaact cgagggtgac aacgcgcgcc tagccgtact aaaacgcagc atcgaggtca 21780

cccactttgc ctacccggca cttaacctac cccccaaggt catgagcaca gtcatgagtg 21840

agctgatcgt gcgccgtgcg cagcccctgg agagggatgc aaatttgcaa gaacaaacag 21900

aggagggcct acccgcagtt ggcgacgagc agctagcgcg ctggcttcaa acgcgcgagc 21960

ctgccgactt ggaggagcga cgcaaactaa tgatggccgc agtgctcgtt accgtggagc 22020

ttgagtgcat gcagcggttc tttgctgacc cggagatgca gcgcaagcta gaggaaacat 22080

tgcactacac ctttcgacag ggctacgtac gccaggcctg caagatctcc aacgtggagc 22140

tctgcaacct ggtctcctac cttggaattt tgcacgaaaa ccgccttggg caaaacgtgc 22200

ttcattccac gctcaagggc gaggcgcgcc gcgactacgt ccgcgactgc gtttacttat 22260

ttctatgcta cacctggcag acggccatgg gcgtttggca gcagtgcttg gaggagtgca 22320

acctcaagga gctgcagaaa ctgctaaagc aaaacttgaa ggacctatgg acggccttca 22380

acgagcgctc cgtggccgcg cacctggcgg acatcatttt ccccgaacgc ctgcttaaaa 22440

ccctgcaaca gggtctgcca gacttcacca gtcaaagcat gttgcagaac tttaggaact 22500

ttatcctaga gcgctcagga atcttgcccg ccacctgctg tgcacttcct agcgactttg 22560

tgcccattaa gtaccgcgaa tgccctccgc cgctttgggg ccactgctac cttctgcagc 22620

tagccaacta ccttgcctac cactctgaca taatggaaga cgtgagcggt gacggtctac 22680

tggagtgtca ctgtcgctgc aacctatgca ccccgcaccg ctccctggtt tgcaattcgc 22740

agctgcttaa cgaaagtcaa attatcggta cctttgagct gcagggtccc tcgcctgacg 22800

aaaagtccgc ggctccgggg ttgaaactca ctccggggct gtggacgtcg gcttaccttc 22860
gcaaatttgt acctgaggac taccacgccc acgagattag gttctacgaa gaccaatccc 22920
gcccgccaaa tgcggagctt accgcctgcg tcattaccca gggccacatt cttggccaat 22980
tgcaagccat caacaaagcc cgccaagagt ttctgctacg aaagggacgg ggggtttact 23040
tggaccccca gtccggcgag gagctcaacc caatcccccc gccgccgcag ccctatcagc 23100
agcagccgcg ggcccttgct tcccaggatg gcacccaaaa agaagctgca gctgccgccg 23160
ccacccacgg acgaggagga atactgggac agtcaggcag aggaggtttt ggacgaggag 23220
gaggaggaca tgatggaaga ctgggagagc ctagacgagg aagcttccga ggtcgaagag 23280
gtgtcagacg aaacaccgtc accctcggtc gcattcccct cgccggcgcc ccagaaatcg 23340
gcaaccggtt ccagcatggc tacaacctcc gctcctcagg cgccgccggc actgcccgtt 23400
cgccgaccca accgtagatg ggacaccact ggaaccaggg ccggtaagtc caagcagccg 23460
ccgccgttag cccaagagca acaacagcgc caaggctacc gctcatggcg cgggcacaag 23520
aacgccatag ttgcttgctt gcaagactgt gggggcaaca tctccttcgc ccgccgcttt 23580
cttctctacc atcacggcgt ggccttcccc cgtaacatcc tgcattacta ccgtcatctc 23640
tacagcccat actgcaccgg cggcagcggc agcggcagca acagcagcgg ccacacagaa 23700
gcaaaggcga ccggatagca agactctgac aaagcccaag aaatccacag cggcggcagc 23760
agcaggagga ggagcgctgc gtctggcgcc caacgaaccc gtatcgaccc gcgagcttag 23820
aaacaggatt tttcccactc tgtatgctat atttcaacag agcaggggcc aagaacaaga 23880
gctgaaaata aaaaacaggt ctctgcgatc cctcacccgc agctgcctgt atcacaaaag 23940
cgaagatcag cttcggcgca cgctggaaga cgcggaggct ctcttcagta aatactgcgc 24000
gctgactctt aaggactagt ttcgcgccct ttctcaaatt taagcgcgaa aactacgtca 24060
tctccagcgg ccacacccgg cgccagcacc tgtcgtcagc gccattatga gcaaggaaat 24120
tcccacgccc tacatgtgga gttaccagcc acaaatggga cttgcggctg gagctgccca 24180
agactactca acccgaataa actacatgag cgcgggaccc cacatgatat cccgggtcaa 24240
cggaatccgc gcccaccgaa accgaattct cttggaacag gcggctatta ccaccacacc 24300
tcgtaataac cttaatcccc gtagttggcc cgctgccctg gtgtaccagg aaagtcccgc 24360
tcccaccact gtggtacttc ccagagacgc ccaggccgaa gttcagatga ctaactcagg 24420
ggcgcagctt gcgggcggct ttcgtcacag ggtgcggtcg cccgggcagg gtataactca 24480
cctgacaatc agagggcgag gtattcagct caacgacgag tcggtgagct cctcgcttgg 24540
tctccgtccg gacgggacat ttcagatcgg cggcgccggc cgtccttcat tcacgcctcg 24600

tcaggcaatc ctaactctgc agacctcgtc ctctgagccg cgctctggag gcattggaac 24660

tctgcaattt attgaggagt ttgtgccatc ggtctacttt aaccccttct cgggacctcc 24720

cggccactat ccggatcaat ttattcctaa ctttgacgcg gtaaaggact cggcggacgg 24780

ctacgactga atgttaagtg gagaggcaga gcaactgcgc ctgaaacacc tggtccactg 24840

tcgccgccac aagtgctttg cccgcgactc cggtgagttt tgctactttg aattgcccga 24900

ggatcatatc gagggcccgg cgcacggcgt ccggcttacc gcccagggag agcttgcccg 24960

tagcctgatt cgggagttta cccagcgccc cctgctagtt gagcgggaca ggggaccctg 25020

tgttctcact gtgatttgca actgtcctaa ccttggatta catcaagatc ctctagttat 25080

aactagagta cccggggatc ttattccctt taactaataa aaaaaaataa taaagcatca 25140

cttacttaaa atcagttagc aaatttctgt ccagtttatt cagcagcacc tccttgccct 25200

cctcccagct ctggtattgc agcttcctcc tggctgcaaa ctttctccac aatctaaatg 25260

gaatgtcagt ttcctcctgt tcctgtccat ccgcacccac tatcttcatg ttgttgcaga 25320

tgaagcgcgc aagaccgtct gaagatacct tcaaccccgt gtatccatat gacacggaaa 25380

ccggtcctcc aactgtgcct tttcttactc ctccctttgt atcccccaat gggtttcaag 25440

agagtccccc tggggtactc tctttgcgcc tatccgaacc tctagttacc tccaatggca 25500

tgcttgcgct caaaatgggc aacggcctct ctctggacga ggccggcaac cttacctccc 25560

aaaatgtaac cactgtgagc ccacctctca aaaaaaccaa gtcaaacata aacctggaaa 25620

tatctgcacc cctcacagtt acctcagaag ccctaactgt ggctgccgcc gcacctctaa 25680

tggtcgcggg caacacactc accatgcaat cacaggcccc gctaaccgtg cacgactcca 25740

aacttagcat tgccacccaa ggacccctca cagtgtcaga aggaaagcta gccctgcaaa 25800

catcaggccc cctcaccacc accgatagca gtacccttac tatcactgcc tcacccccctc 25860

taactactgc cactggtagc ttgggcattg acttgaaaga gcccatttat acacaaaatg 25920

gaaaactagg actaaagtac ggggctcctt tgcatgtaac agacgaccta aacactttga 25980

ccgtagcaac tggtccaggt gtgactatta ataatacttc cttgcaaact aaagttactg 26040

gagccttggg ttttgattca caaggcaata tgcaacttaa tgtagcagga ggactaagga 26100

ttgattctca aaacagacgc cttatacttg atgttagtta tccgtttgat gctcaaaacc 26160

aactaaatct aagactagga cagggccctc tttttataaa ctcagcccac aacttggata 26220

ttaactacaa caaaggcctt tacttgttta cagcttcaaa caattccaaa aagcttgagg 26280

ttaacctaag cactgccaag gggttgatgt ttgacgctac agccatagcc attaatgcag 26340

gagatgggct tgaatttggt tcacctaatg caccaaacac aaatcccctc aaaacaaaaa 26400

ttggccatgg cctagaattt gattcaaaca aggctatggt tcctaaacta ggaactggcc 26460

ttagttttga cagcacaggt gccattacag taggaaacaa aaataatgat aagctaactt 26520

tgtggaccac accagctcca tctcctaact gtagactaaa tgcagagaaa gatgctaaac 26580

tcactttggt cttaacaaaa tgtggcagtc aaatacttgc tacagtttca gttttggctg 26640

ttaaaggcag tttggctcca atatctggaa cagttcaaag tgctcatctt attataagat 26700

ttgacgaaaa tggagtgcta ctaaacaatt ccttcctgga cccagaatat tggaacttta 26760

gaaatggaga tcttactgaa ggcacagcct atacaaacgc tgttggattt atgcctaacc 26820

tatcagctta tccaaaatct cacggtaaaa ctgccaaaag taacattgtc agtcaagttt 26880

acttaaacgg agacaaaact aaacctgtaa cactaaccat tacactaaac ggtacacagg 26940

aaacaggaga cacaactcca agtgcatact ctatgtcatt ttcatgggac tggtctggcc 27000

acaactacat taatgaaata tttgccacat cctcttacac tttttcatac attgcccaag 27060

aataaagaat cgtttgtgtt atgtttcaac gtgtttattt ttcaattgca gaaaatttca 27120

agtcattttt cattcagtag tatagcccca ccaccacata gcttatacag atcaccgtac 27180

cttaatcaaa ctcacagaac cctagtattc aacctgccac ctccctccca acacacagag 27240

tacacagtcc tttctccccg gctggcctta aaaagcatca tatcatgggt aacagacata 27300

ttcttaggtg ttatattcca cacggtttcc tgtcgagcca aacgctcatc aagtgatatt 27360

aataaactcc ccgggcagct cacttaagtt catgtcgctg tccagctgct gagccacagg 27420

ctgctgtcca acttgcggtt gcttaacggg cggcgaagga gaagtccacg cctacatggg 27480

gggagagtca taatcgtgca tcaggatagg gcggtggtgc tgcagcagcg cgcgaataaa 27540

ctgctgccgc cgccgctccg tcctgcagga atacaacatg gcagtggtct cctcagcgat 27600

gattcgcacc gcccgcagca taaggcgctt gtcctccggg cacagcagcg caccctgatc 27660

tcacttaaat cagcacagta actgcagcac agcaccacaa tattgttcaa aatcccacag 27720

tgcaaggcgc tgtatccaaa gctcatggcg gggaccacag aacccacgtg gccatcatac 27780

cacaagcgca ggtagattaa gtggcgaccc ctcataaaca cgctggacat aaacattacc 27840

tcttttggca tgttgtaatt caccacctcc cggtaccata taaacctctg attaaacatg 27900

gcgccatcca ccaccatcct aaaccagctg gccaaaacct gccccgccgg gntatacact 27960

gcagggaacc gggacttgga caatgacaag tgggagagcc caggactcgt aaccatggat 28020

catcatgctc gtcatgatat caatgttggc acaacacagg cacacgtgca tacacttcct 28080

caggattaca agctcctccc gcgttagaac catatcccag ggaacaaccc attcctgaat 28140

cagcgtaaat cccacactgc agggaagacc tcgcacgtaa ctcacgttgt gcattgtcaa 28200

agtgttacat tcgggcagca gcggatgatc ctccagtatg gtagcgcggg tttctgtctc 28260

aaaaggaggt agacgatccc tactgtacgg agtgcgccga gacaaccgag atcgtgttgg 28320

tcgtagtgtc atgccaaatg gaacgccgga cgtagtcata tttcctgaag caaaaccagg 28380

tgcgggcgtg acaaacagat ctgcgtctcc ggtctcgccg cttagatcgc tctgtgtagt 28440

agttgtagta tatccactct ctcaaagcat ccaggcgccc cctggcttcg ggttctatgt 28500

aaactccttc atgcgccgct gccctgataa catccaccac cgcagaataa gccacaccca 28560

gccaacctac acattcgttc tgcgagtcac acacgggagg agcgggaaga gctggaagaa 28620

ccatgttttt ttttttattc caaaagatta tccaaaacct caaaatgaag atctattaag 28680

tgaacgcgct cccctccggt ggcgtggtca aactctacag ccaaagaaca gataatggca 28740

tttgtaagat gttgcacaat ggcttccaaa aggcaaacgg ccctcacgtc caagtggacg 28800

taaaggctaa acccttcagg gtgaatctcc tctataaaca ttccagcacc ttcaaccatg 28860

cccaaataat tctcatctcg ccaccttctc aatatatctc taagcaaatc ccgaatattt 28920

aagtccgggc cattgtaaaa aatttggctc cagagcgccc tccaccttca gcctcaagca 28980

gcgaatcatg attgcaaaaa ttcaggttcc tcacagacct gtataagatt caaaagcgga 29040

acattaacaa aaataccgcg atcccgtagg tcccttcgca gggccagctg aacataatcg 29100

tgcaggtctg cacggaccag cgcggccact tccccgccag gaaccatgac aaaagaaccc 29160

acactgatta tgacacgcat actcggagct atgctaacca gcgtagcccc gatgtaagct 29220

tgttgcatgg gcggcgatat aaaatgcaag gtgctgctca aaaaatcagg caaagcctcg 29280

cgcaaaaaag aaagcacatc gtagtcatgc tcatgcagat aaaggcaggt aagctccgga 29340

accaccacag aaaaagacac catttttctc tcaaacatgt ctgcgggttt ctgcataaac 29400

acaaaataaa ataacaaaaa aacatttaaa cattagaagc ctgtcttaca acaggaaaaa 29460

caacccttat aagcataaga cggactacgg ccatgccggc gtgaccgtaa aaaaactggt 29520

caccgtgatt aaaaagcacc accgacagct cctcggtcag tccggagtca taatgtaaga 29580

ctcggtaaac acatcaggtt gattcacatc ggtcagtgtt aaaaagcgac cgaaatagcc 29640

cgggggaata catacccgca ggcgtagaga caacattaca gcccccatag gaggtataac 29700

aaaattaata ggagagaaaa acacataaac acctgaaaaa ccctcctgcc taggcaaaat 29760

agcaccctcc cgctccagaa caacatacag cgcttcacag cggcagccta acagtcagcc 29820

ttaccagtaa aaaagaaaac ctattaaaaa aacaccactc gacacggcac cagctcaatc 29880

agtcacagtg taaaaaaggg ccaagtgcag agcgagtata tataggacta aaaaatgacg 29940

taacggttaa agtccacaaa aaacacccag aaaaccgcac gcgaacctac gcccagaaac 30000

gaaagccaaa aaacccacaa cttcctcaaa tcgtcacttc cgttttccca cgttacgtaa 30060

cttcccattt taagaaaact acaattccca acacatacaa gttactccgc cctaaaacct 30120

acgtcacccg ccccgttccc acgccccgcg ccacgtcaca aactccaccc cctcattatc 30180

atattggctt caatccaaaa taaggtatat tattgatgat gnnttaatta agggcggccg 30240

cacgggccat cgatggatcc gcggaagctt ctcgacccat tctcatgttt gacagcttat 30300

catcgaattt ctgccattca tccgcttatt atcacttatt caggcgtagc aaccaggcgt 30360

ttaagggcac caataactgc cttaaaaaaa ttacgccccg ccctgccact catcgcagta 30420

ctgttgtaat tcattaagca ttctgccgac atggaagcca tcacagacgg catgatgaac 30480

ctgaatcgcc agcggcatca gcaccttgtc gccttgcgta taatatttgc ccatggtgaa 30540

aacgggggcg aagaagttgt ccatattggc cacgtttaaa tcaaaactgg tgaaactcac 30600

ccagggattg gctgagacga aaaacatatt ctcaataaac cctttaggga aataggccag 30660

gttttcaccg taacacgcca catcttgcga atatatgtgt agaaactgcc ggaaatcgtc 30720

gtggtattca ctccagagcg atgaaaacgt ttcagtttgc tcatggaaaa cggtgtaaca 30780

agggtgaaca ctatcccata tcaccagctc accgtctttc attgccatac ggaattccgg 30840

atgagcattc atcaggcggg caagaatgtg aataaaggcc ggataaaact tgtgcttatt 30900

tttctttacg gtctttaaaa aggccgtaat atccagctga acggtctggt tataggtaca 30960

ttgagcaact gactgaaatg cctcaaaatg ttctttacga tgccattggg atatatcaac 31020

ggtggtatat ccagtgattt ttttctccat tttagcttcc ttagctcctg aaaatctcga 31080

taactcaaaa aatacgcccg gtagtgatct tatttcatta tggtgaaagt tggaacctct 31140

tacgtgccga tcaacgtctc attttcgcca aaagttggcc cagggcttcc cggtatcaac 31200

agggacacca ggatttattt attctgcgaa gtgatcttcc gtcacaggta tttattcgcg 31260

ataagctcat ggagcggcgt aaccgtcgca caggaaggac agagaaagcg cggatctggg 31320

aagtgacgga cagaacggtc aggacctgga ttggggaggc ggttgccgcc gctgctgctg 31380

acggtgtgac gttctctgtt ccggtcacac cacatacgtt ccgccattcc tatgcgatgc 31440

acatgctgta tgccggtata ccgctgaaag ttctgcaaag cctgatggga cataagtcca 31500

tcagttcaac ggaagtctac acgaaggttt ttgcgctgga tgtggctgcc cggcaccggg 31560

tgcagtttgc gatgccggag tctgatgcgg ttgcgatgct gaaacaatta tcctgagaat 31620

aaatgccttg gcctttatat ggaaatgtgg aactgagtgg atatgctgtt tttgtctgtt 31680

aaacagagaa gctggctgtt atccactgag aagcgaacga aacagtcggg aaaatctccc 31740

attatcgtag agatccgcat tattaatctc aggagcctgt gtagcgttta taggaagtag 31800

tgttctgtca tgatgcctgc aagcggtaac gaaaacgatt tgaatatgcc ttcaggaaca 31860

atagaaatct tcgtgcggtg ttacgttgaa gtggagcgga ttatgtcagc aatggacaga 31920

acaacctaat gaacacagaa ccatgatgtg gtctgtcctt ttacagccag taggctcgcc 31980

gcagtcgagc gacggcgaag ccctcgagtg agcgaggaag caccagggaa cagcacttat 32040

atattctgct tacacacgat gcctgaaaaa acttcccttg gggttatcca cttatccacg 32100

gggatatttt tataattatt ttttttatag tttttagatc ttctttttta gagcgccttg 32160

taggccttta tccatgctgg ttctagagaa ggtgttgtga caaattgccc tttcagtgtg 32220

acaaatcacc ctcaaatgac agtcctgtct gtgacaaatt gcccttaacc ctgtgacaaa 32280

ttgccctcag aagaagctgt tttttcacaa agttatccct gcttattgac tctttttttat 32340

ttagtgtgac aatctaaaaa cttgtcacac ttcacatgga tctgtcatgg cggaaacagc 32400

ggttatcaat cacaagaaac gtaaaaatag cccgcgaatc gtccagtcaa acgacctcac 32460

tgaggcggca tatagtctct cccgggatca aaaacgtatg ctgtatctgt tcgttgacca 32520

gatcagaaaa tctgatggca ccctacagga acatgacggt atctgcgaga tccatgttgc 32580

taaatatgct gaaatattcg gattgacctc tgcggaagcc agtaaggata tacggcaggc 32640

attgaagagt ttcgcgggga aggaagtggt tttttatcgc cctgaagagg atgccggcga 32700

tgaaaaaggc tatgaatctt ttccttggtt tatcaaacgt gcgcacagtc catccagagg 32760

gctttacagt gtacatatca acccatatct cattcccttc tttatcgggt tacagaaccg 32820

gtttacgcag tttcggctta gtgaaacaaa agaaatcacc aatccgtatg ccatgcgttt 32880

atacgaatcc ctgtgtcagt atcgtaagcc ggatggctca ggcatcgtct ctctgaaaat 32940

cgactggatc atagagcgtt accagctgcc tcaaagttac cagcgtatgc ctgacttccg 33000

ccgccgcttc ctgcaggtct gtgttaatga gatcaacagc agaactccaa tgcgcctctc 33060

atacattgag aaaaagaaag gccgccagac gactcatatc gtattttcct tccgcgatat 33120

cacttccatg acgacaggat agtctgaggg ttatctgtca cagatttgag ggtggttcgt 33180

cacatttgtt ctgacctact gagggtaatt tgtcacagtt ttgctgtttc cttcagcctg 33240

catggatttt ctcatacttt ttgaactgta atttttaagg aagccaaatt tgagggcagt 33300

ttgtcacagt tgatttcctt ctctttccct tcgtcatgtg acctgatatc gggggttagt 33360

tcgtcatcat tgatgagggt tgattatcac agtttattac tctgaattgg ctatccgcgt 33420

gtgtacctct acctggagtt tttcccacgg tggatatttc ttcttgcgct gagcgtaaga 33480

gctatctgac agaacagttc ttctttgctt cctcgccagt tcgctcgcta tgctcggtta 33540

cacggctgcg gcgagcgcta gtgataataa gtgactgagg tatgtgctct tcttatctcc 33600

ttttgtagtg ttgctcttat tttaaacaac tttgcggttt tttgatgact ttgcgatttt 33660

gttgttgctt tgcagtaaat tgcaagattt aataaaaaaa cgcaaagcaa tgattaaagg 33720

atgttcagaa tgaaactcat ggaaacactt aaccagtgca taaacgctgg tcatgaaatg 33780

acgaaggcta tcgccattgc acagtttaat gatgacagcc cggaagcgag gaaaataacc 33840

cggcgctgga gaataggtga agcagcggat ttagttgggg tttcttctca ggctatcaga 33900

gatgccgaga aagcagggcg actaccgcac ccggatatgg aaattcgagg acgggttgag 33960

caacgtgttg gttatacaat tgaacaaatt aatcatatgc gtgatgtgtt tggtacgcga 34020

ttgcgacgtg ctgaagacgt atttccaccg gtgatcgggg ttgctgccca taaaggtggc 34080

gtttacaaaa cctcagtttc tgttcatctt gctcaggatc tggctctgaa ggggctacgt 34140

gttttgctcg tggaaggtaa cgacccccag ggaacagcct caatgtatca cggatgggta 34200

ccagatcttc atattcatgc agaagacact ctcctgcctt tctatcttgg ggaaaaggac 34260

gatgtcactt atgcaataaa gcccacttgc tggccggggc ttgacattat tccttcctgt 34320

ctggctctgc accgtattga aactgagtta atgggcaaat ttgatgaagg taaactgccc 34380

accgatccac acctgatgct ccgactggcc attgaaactg ttgctcatga ctatgatgtc 34440

atagttattg acagcgcgcc taacctgggt atcggcacga ttaatgtcgt atgtgctgct 34500

gatgtgctga ttgttcccac gcctgctgag ttgtttgact acacctccgc actgcagttt 34560

ttcgatatgc ttcgtgatct gctcaagaac gttgatctta aagggttcga gcctgatgta 34620

cgtattttgc ttaccaaata cagcaatagt aatggctctc agtccccgtg gatggaggag 34680

caaattcggg atgcctgggg aagcatggtt ctaaaaaatg ttgtacgtga aacggatgaa 34740

gttggtaaag gtcagatccg gatgagaact gtttttgaac aggccattga tcaacgctct 34800

tcaactggtg cctggagaaa tgctctttct atttgggaac ctgtctgcaa tgaaattttc 34860

gatcgtctga ttaaaccacg ctgggagatt agataatgaa gcgtgcgcct gttattccaa 34920

aacatacgct caatactcaa ccggttgaag atacttcgtt atcgacacca gctgccccga 34980

tggtggattc gttaattgcg cgcgtaggag taatggctcg cggtaatgcc attactttgc 35040

ctgtatgtgg tcgggatgtg aagtttactc ttgaagtgct ccggggtgat agtgttgaga 35100

agacctctcg ggtatggtca ggtaatgaac gtgaccagga gctgcttact gaggacgcac 35160

tggatgatct catcccttct tttctactga ctggtcaaca gacaccggcg ttcggtcgaa 35220

gagtatctgg tgtcatagaa attgccgatg ggagtcgccg tcgtaaagct gctgcactta 35280

ccgaaagtga ttatcgtgtt ctggttggcg agctggatga tgagcagatg gctgcattat 35340

ccagattggg taacgattat cgcccaacaa gtgcttatga acgtggtcag cgttatgcaa 35400

gccgattgca gaatgaattt gctggaaata tttctgcgct ggctgatgcg gaaaatattt 35460

cacgtaagat tattacccgc tgtatcaaca ccgccaaatt gcctaaatca gttgttgctc 35520

ttttttctca ccccggtgaa ctatctgccc ggtcaggtga tgcacttcaa aaagccttta 35580

cagataaaga ggaattactt aagcagcagg catctaacct tcatgagcag aaaaaagctg 35640

gggtgatatt tgaagctgaa gaagttatca ctcttttaac ttctgtgctt aaaacgtcat 35700

ctgcatcaag aactagttta agctcacgac atcagtttgc tcctggagcg acagtattgt 35760

ataagggcga taaaatggtg cttaacctgg acaggtctcg tgttccaact gagtgtatag 35820

agaaaattga ggccattctt aaggaacttg aaaagccagc accctgatgc gaccacgttt 35880

tagtctacgt ttatctgtct ttacttaatg tcctttgtta caggccagaa agcataactg 35940

gcctgaatat tctctctggg cccactgttc cacttgtatc gtcggtctga taatcagact 36000

gggaccacgg tcccactcgt atcgtcggtc tgattattag tctgggacca cggtcccact 36060

cgtatcgtcg gtctgattat tagtctggga ccacggtccc actcgtatcg tcggtctgat 36120

aatcagactg ggaccacggt cccactcgta tcgtcggtct gattattagt ctgggaccat 36180

ggtcccactc gtatcgtcgg tctgattatt agtctgggac cacggtccca ctcgtatcgt 36240

cggtctgatt attagtctgg aaccacggtc ccactcgtat cgtcggtctg attattagtc 36300

tgggaccacg gtcccactcg tatcgtcggt ctgattatta gtctgggacc acgatcccac 36360

tcgtgttgtc ggtctgatta tcggtctggg accacggtcc cacttgtatt gtcgatcaga 36420

ctatcagcgt gagactacga ttccatcaat gcctgtcaag ggcaagtatt gacatgtcgt 36480

cgtaacctgt agaacggagt aacctcggtg tgcggttgta tgcctgctgt ggattgctgc 36540

tgtgtcctgc ttatccacaa cattttgcgc acggttatgt ggacaaaata cctggttacc 36600

caggccgtgc cggcacgtta accgggctgc atccgatgca agtgtgtcgc tgtcgagttt 36660

aaacatgcat ccttaattaa 36680

<210> 4
<211> 39730
<212> DNA
<213> Artificial

<220>
<223> synthetic

<220>
<221> misc_feature
<222> (31002)..(31002)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (33272)..(33273)
<223> n is a, c, g, or t

<400> 4
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60

ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt 120

gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180

gtgtgcgccg gtgtacacag gaagtgacaa ttttcgcgcg gttttaggcg gatgttgtag 240

taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga 300

agtgaaatct gaataatttt gtgttactca tagcgcgtaa actggtaccc ggggatcttg 360

aagttcctat tccgaagttc ctattctcta gaaagtatag gaacttcctt aagtgagtcg 420

tattacggac tggccgtcgt tttacaacgt cgtgactggg aaaaccctgg cgttacccaa 480

cttaatcgcc ttgcagcaca tccccctttc gccagctggc gtaatagcga agaggcccgc 540

accgatcgcc cttcccaaca gttgcgcagc ctgaatggcg aatggcgctt cgcttggtaa 600

gctagctaag gcttaaggag gacaatcatg gcaacagtta accagctggt acgcaaacca 660

cgtgctcgca aagttgcgaa aagcaacgtg cctgcgctgg aagcatgccc gcaaaaacgt 720

ggcgtatgta ctcgtgtata tactaccact cctaaaaaac cgaactccgc gctgcgtaaa 780

gtatgccgtg ttcgtctgtc taacggtttc gaagtgactt cctacatcgg tggtgaaggt 840

cacaacctgc aggagcactc cgtgatcctg atccgtggcg gtcgtgttaa agacctcccg 900

ggtgttcgtt accacaccgt acgtggtgcg cttgactgct ccggcgttaa agaccgtaag 960

caggctcgtt ccaagtatgg cgtgaagcgt cctaaggctt aactagcacg cgccatgtca 1020

gccgttaagt gttcctgtgt cactcaaaat tgctttgaga ggctctaagg gcttctcagt 1080

gcgttacatc cctggcttgt tgtccacaac cgttaaacct taaaagcttt aaaagcctta 1140

tatattcttt tttttcttat aaaacttaaa accttagagg ctatttaagt tgctgattta 1200

tattaatttt attgttcaaa catgagagct tagtacgtga aacatgagag cttagtacgt 1260

tagccatgag agcttagtac gttagccatg agggtttagt tcgttaaaca tgagagctta 1320

gtacgttaaa catgagagct tagtacgtga aacatgagag cttagtacgt actatcaaca 1380

ggttgaactg ctgatcttca gatcctctac gccggacgca tcgtggccgg atccgattta 1440

ttcaacaaag ccacgttgtg tctcaaaatc tctgatgtta cattgcacaa gataaaaata 1500

tatcatcatg aacaataaaa ctgtctgctt acataaacag taatacaagg ggtgttatga 1560

gccatattca acgggaaacg tcttgctcga ggccgcgatt aaattccaac atggatgctg 1620

atttatatgg gtataaatgg gctcgcgata atgtcgggca atcaggtgcg acaatctatc 1680

gattgtatgg gaagcccgat gcgccagagt tgtttctgaa acatggcaaa ggtagcgttg 1740

ccaatgatgt tacagatgag atggtcagac taaactggct gacggaattt atgcctcttc 1800

cgaccatcaa gcattttatc cgtactcctg atgatgcatg gttactcacc actgcgatcc 1860

ccgggaaaac agcattccag gtattagaag aatatcctga ttcaggtgaa aatattgttg 1920

atgcgctggc agtgttcctg cgccggttgc attcgattcc tgtttgtaat tgtcctttta 1980

acagcgatcg cgtatttcgt ctcgctcagg cgcaatcacg aatgaataac ggtttggttg 2040

atgcgagtga ttttgatgac gagcgtaatg gctggcctgt tgaacaagtc tggaaagaaa 2100

tgcataagct tttgccattc tcaccggatt cagtcgtcac tcatggtgat ttctcacttg 2160

ataaccttat ttttgacgag gggaaattaa taggttgtat tgatgttgga cgagtcggaa 2220

tcgcagaccg ataccaggat cttgccatcc tatggaactg cctcggtgag ttttctcctt 2280

cattacagaa acggcttttt caaaaatatg gtattgataa tcctgatatg aataaattgc 2340

agtttcattt gatgctcgat gagtttttct aatcagaatt ggttaattgg ttgtaacact 2400

ggcttaatta acatcatcaa taatatacct tattttggat tgaagccaat atgataatga 2460

gggggtggag tttgtgacgt ggcgcggggc gtgggaacgg ggcgggtgac gtagtagtgt 2520

ggcggaagtg tgatgttgca agtgtggcgg aacacatgta agcgacggat gtggcaaaag 2580

tgacgttttt ggtgtgcgcc ggtgtacaca ggaagtgaca attttcgcgc ggttttaggc 2640

ggatgttgta gtaaatttgg gcgtaaccga gtaagatttg gccattttcg cgggaaaact 2700

gaataagagg aagtgaaatc tgaataattt tgtgttactc atagcgcgta atactggtac 2760

cccccagtgg caagacgcgc aggcaaaacg caccacgact ggatccgaat tcaaaaagcc 2820

ggaactgatc agaaccattc tcttgaaatg gttctgatca gttccggccg gtgtttcgtc 2880

ctttccacaa gatatataaa gccaagaaat cgaaatactt tcaagttacg gtaagcatat 2940

gatagtccat tttaaaacat aattttaaaa ctgcaaacta cccaagaaat tattactttc 3000

tacgtcacgt attttgtact aatatctttg tgtttacagt caaattaatt ctaattatct 3060

ttctaacagc cttgtatcgt atatgcaaat atgaaggaat catgggaaat aggccctctt 3120

cctgcccgac cttggcgcgc gctcggcgcg cggtcacgct ccgtcacgtg gtgcgttttg 3180

cctgcgcgtc ttgccactgg ggggtacccc gaatcactag atctgagctc ggcctggtga 3240

tgatggcggg atcgttgtat atttcttgac acctttttcgg catcgcccta aaattcggcg 3300

tcctcatatt gtgtgaggac gttttattac gtgtttacga agcaaaagct aaaaccagga 3360

gctatttaat ggcaacaacc ggtaccatga ttacgccaag ctacgtaata cgactcacta 3420

gtggaagttc ctattctcta gaaagtatag gaacttcaag agcgcttttg agcttgttta 3480

tcgaattcaa gcttgtcgac tcgaagatct gggcgtggtt aagggtggga aagaatatat 3540

aaggtggggg tcttatgtag ttttgtatct gttttgcagc agccgccgcc gccatgagca 3600

ccaactcgtt tgatggaagc attgtgagct catatttgac aacgcgcatg cccccatggg 3660

ccggggtgcg tcagaatgtg atgggctcca gcattgatgg tcgccccgtc ctgcccgcaa 3720

actctactac cttgacctac gagaccgtgt ctggaacgcc gttggagact gcagcctccg 3780

ccgccgcttc agccgctgca gccaccgccc gcgggattgt gactgacttt gctttcctga 3840

gcccgcttgc aagcagtgca gcttcccgtt catccgcccg cgatgacaag ttgacggctc 3900

ttttggcaca attggattct ttgacccggg aacttaatgt cgtttctcag cagctgttgg 3960

atctgcgcca gcaggtttct gccctgaagg cttcctcccc tcccaatgcg gtttaaaaca 4020

taaataaaaa accagactct gtttggattt ggatcaagca agtgtcttgc tgtctttatt 4080

taggggtttt gcgcgcgcgg taggcccggg accagcggtc tcggtcgttg agggtcctgt 4140

gtatttttc caggacgtgg taaaggtgac tctggatgtt cagatacatg ggcataagcc 4200

cgtctctggg gtggaggtag caccactgca gagcttcatg ctgcggggtg gtgttgtaga 4260

tgatccagtc gtagcaggag cgctgggcgt ggtgcctaaa aatgtctttc agtagcaagc 4320

tgattgccag gggcaggccc ttggtgtaag tgtttacaaa gcggttaagc tgggatgggt 4380

gcatacgtgg ggatatgaga tgcatcttgg actgtatttt taggttggct atgttcccag 4440

ccatatccct ccggggattc atgttgtgca gaaccaccag cacagtgtat ccggtgcact 4500

tgggaaattt gtcatgtagc ttagaaggaa atgcgtggaa gaacttggag acgcccttgt 4560

gacctccaag attttccatg cattcgtcca taatgatggc aatgggccca cgggcggcgg 4620

cctgggcgaa gatatttctg ggatcactaa cgtcatagtt gtgttccagg atgagatcgt 4680

cataggccat ttttacaaag cgcgggcgga gggtgccaga ctgcggtata atggttccat 4740

ccggcccagg ggcgtagtta ccctcacaga tttgcatttc ccacgctttg agttcagatg 4800

gggggatcat gtctacctgc ggggcgatga agaaaacggt ttccggggta ggggagatca 4860

gctgggaaga aagcaggttc ctgagcagct gcgacttacc gcagccggtg ggcccgtaaa 4920

tcacacctat taccgggtgc aactggtagt taagagagct gcagctgccg tcatccctga 4980

gcagggggggc cacttcgtta agcatgtccc tgactcgcat gttttccctg accaaatccg 5040

ccagaaggcg ctcgccgccc agcgatagca gttcttgcaa ggaagcaaag tttttcaacg 5100

gtttgagacc gtccgccgta ggcatgcttt tgagcgtttg accaagcagt tccaggcggt 5160

cccacagctc ggtcacctgc tctacggcat ctcgatccag catatctcct cgtttcgcgg 5220

gttggggcgg ctttcgctgt acggcagtag tcggtgctcg tccagacggg ccagggtcat 5280

gtctttccac gggcgcaggg tcctcgtcag cgtagtctgg gtcacggtga aggggtgcgc 5340

tccgggctgc gcgctggcca gggtgcgctt gaggctggtc ctgctggtgc tgaagcgctg 5400

ccggtcttcg ccctgcgcgt cggccaggta gcatttgacc atggtgtcat agtccagccc 5460

ctccgcggcg tggcccttgg cgcgcagctt gcccttggag gaggcgccgc acgaggggca 5520

gtgcagactt ttgagggcgt agagcttggg cgcgagaaat accgattccg gggagtaggc 5580

atccgcgccg caggccccgc agacggtctc gcattccacg agccaggtga gctctggccg 5640

ttcggggtca aaaaccaggt ttcccccatg ctttttgatg cgtttcttac ctctggtttc 5700

catgagccgg tgtccacgct cggtgacgaa aaggctgtcc gtgtccccgt atacagactt 5760

gagaggcctg tcctcgagcg gtgttccgcg gtcctcctcg tatagaaact cggaccactc 5820

tgagacaaag gctcgcgtcc aggccagcac gaaggaggct aagtgggagg ggtagcggtc 5880

gttgtccact agggggtcca ctcgctccag ggtgtgaaga cacatgtcgc cctcttcggc 5940

atcaaggaag gtgattggtt tgtaggtgta ggccacgtga ccgggtgttc ctgaaggggg 6000

gctataaaag ggggtggggg cgcgttcgtc ctcactctct tccgcatcgc tgtctgcgag 6060

ggccagctgt tggggtgagt actccctctg aaaagcgggc atgacttctg cgctaagatt 6120

gtcagtttcc aaaaacgagg aggatttgat attcacctgg cccgcggtga tgcctttgag 6180

ggtggccgca tccatctggt cagaaaagac aatctttttg ttgtcaagct tggtggcaaa 6240

cgacccgtag agggcgttgg acagcaactt ggcgatggag cgcagggttt ggtttttgtc 6300

gcgatcggcg cgctccttgg ccgcgatgtt tagctgcacg tattcgcgcg caacgcaccg 6360

ccattcggga aagacggtgg tgcgctcgtc gggcaccagg tgcacgcgcc aaccgcggtt 6420

gtgcagggtg acaaggtcaa cgctggtggc tacctctccg cgtaggcgct cgttggtcca 6480

gcagaggcgg ccgcccttgc gcgagcagaa tggcggtagg gggtctagct gcgtctcgtc 6540

cgggggggtct gcgtccacgg taaagacccc gggcagcagg cgcgcgtcga agtagtctat 6600

cttgcatcct tgcaagtcta gcgcctgctg ccatgcgcgg gcggcaagcg cgcgctcgta 6660

tgggttgagt gggggacccc atggcatggg gtgggtgagc gcggaggcgt acatgccgca 6720

aatgtcgtaa acgtagaggg gctctctgag tattccaaga tatgtagggt agcatcttcc 6780

accgcggatg ctggcgcgca cgtaatcgta tagttcgtgc gagggagcga ggaggtcggg 6840

accgaggttg ctacgggcgg gctgctctgc tcggaagact atctgcctga agatggcatg 6900

tgagttggat gatatggttg gacgctggaa gacgttgaag ctggcgtctg tgagacctac 6960

cgcgtcacgc acgaaggagg cgtaggagtc gcgcagcttg ttgaccagct cggcggtgac 7020

ctgcacgtct agggcgcagt agtccagggt ttccttgatg atgtcatact tatcctgtcc 7080

ctttttttc cacagctcgc ggttgaggac aaactcttcg cggtctttcc agtactcttg 7140

gatcggaaac ccgtcggcct ccgaacggta agagcctagc atgtagaact ggttgacggc 7200

ctggtaggcg cagcatccct tttctacggg tagcgcgtat gcctgcgcgg ccttccggag 7260

cgaggtgtgg gtgagcgcaa aggtgtccct gaccatgact ttgaggtact ggtatttgaa 7320

gtcagtgtcg tcgcatccgc cctgctccca gagcaaaaag tccgtgcgct ttttggaacg 7380

cggatttggc agggcgaagg tgacatcgtt gaagagtatc tttcccgcgc gaggcataaa 7440

gttgcgtgtg atgcggaagg gtcccggcac ctcggaacgg ttgttaatta cctgggcggc 7500

gagcacgatc tcgtcaaagc cgttgatgtt gtggcccaca atgtaaagtt ccaagaagcg 7560

cgggatgccc ttgatggaag gcaatttttt aagttcctcg taggtgagct cttcagggga 7620

gctgagcccg tgctctgaaa gggcccagtc tgcaagatga gggttggaag cgacgaatga 7680

gctccacagg tcacgggcca ttagcatttg caggtggtcg cgaaaggtcc taaactggcg 7740

acctatggcc atttttttctg gggtgatgca gtagaaggta agcgggtctt gttcccagcg 7800

gtcccatcca aggttcgcgg ctaggtctcg cgcggcagtc actagaggct catctccgcc 7860

gaacttcatg accagcatga agggcacgag ctgcttccca aaggccccca tccaagtata 7920

ggtctctaca tcgtaggtga caaagagacg ctcggtgcga ggatgcgagc cgatcgggaa 7980

gaactggatc tcccgccacc aattggagga gtggctattg atgtggtgaa agtagaagtc 8040

cctgcgacgg gccgaacact cgtgctggct tttgtaaaaa cgtgcgcagt actggcagcg 8100

gtgcacgggc tgtacatcct gcacgaggtt gacctgacga ccgcgcacaa ggaagcagag 8160

tgggaatttg agcccctcgc ctggcgggtt tggctggtgg tcttctactt cggctgcttg 8220

tccttgaccg tctggctgct cgaggggagt tacggtggat cggaccacca cgccgcgcga 8280

gcccaaagtc cagatgtccg cgcgcggcgg tcggagcttg atgacaacat cgcgcagatg 8340

ggagctgtcc atggtctgga gctcccgcgg cgtcaggtca ggcgggagct cctgcaggtt 8400

tacctcgcat agacgggtca gggcgcgggc tagatccagg tgatacctaa tttccagggg 8460

ctggttggtg gcggcgtcga tggcttgcaa gaggccgcat ccccgcggcg cgactacggt 8520

accgcgcggc gggcggtggg ccgcgggggt gtccttggat gatgcatcta aaagcggtga 8580

cgcgggcgag cccccggagg taggggggc tccggacccg ccgggagagg gggcaggggc 8640

acgtcggcgc cgcgcgcggg caggagctgg tgctgcgcgc gtaggttgct ggcgaacgcg 8700

acgacgcggc ggttgatctc ctgaatctgg cgcctctgcg tgaagacgac gggcccggtg 8760

agcttgagcc tgaaagagag ttcgacagaa tcaatttcgg tgtcgttgac ggcggcctgg 8820

cgcaaaatct cctgcacgtc tcctgagttg tcttgatagg cgatctcggc catgaactgc 8880

tcgatctctt cctcctggag atctccgcgt ccggctcgct ccacggtggc ggcgaggtcg 8940

ttggaaatgc gggccatgag ctgcgagaag gcgttgaggc ctccctcgtt ccagacgcgg 9000

ctgtagacca cgccccttc ggcatcgcgg gcgcgcatga ccacctgcgc gagattgagc 9060

tccacgtgcc gggcgaagac ggcgtagttt cgcaggcgct gaaagaggta gttgagggtg 9120

gtggcggtgt gttctgccac gaagaagtac ataacccagc gtcgcaacgt ggattcgttg 9180

atatccccca aggcctcaag gcgctccatg gcctcgtaga agtccacggc gaagttgaaa 9240

aactgggagt tgcgcgccga cacggttaac tcctcctcca gaagacggat gagctcggcg 9300

acagtgtcgc gcacctcgcg ctcaaaggct acaggggcct cttcttcttc ttcaatctcc 9360

tcttccataa gggcctcccc ttcttcttct tctggcggcg gtgggggagg ggggacacgg 9420

cggcgacgac ggcgcaccgg gaggcggtcg acaaagcgct cgatcatctc cccgcggcga 9480

cggcgcatgg tctcggtgac ggcgcggccg ttctcgcggg ggcgcagttg gaagacgccg 9540

cccgtcatgt cccggttatg ggttggcggg gggctgccat gcggcaggga tacggcgcta 9600

acgatgcatc tcaacaattg ttgtgtaggt actccgccgc cgagggacct gagcgagtcc 9660

gcatcgaccg gatcggaaaa cctctcgaga aaggcgtcta accagtcaca gtcgcaaggt 9720

aggctgagca ccgtggcggg cggcagcggg cggcggtcgg ggttgtttct ggcggaggtg 9780

ctgctgatga tgtaattaaa gtaggcggtc ttgagacggc ggatggtcga cagaagcacc 9840

atgtccttgg gtccggcctg ctgaatgcgc aggcggtcgg ccatgcccca ggcttcgttt 9900

tgacatcggc gcaggtcttt gtagtagtct tgcatgagcc tttctaccgg cacttcttct 9960

tctccttcct cttgtcctgc atctcttgca tctatcgctg cggcggcggc ggagtttggc 10020

cgtaggtggc gccctcttcc tcccatgcgt gtgaccccga agcccctcat cggctgaagc 10080

agggctaggt cggcgacaac gcgctcggct aatatggcct gctgcacctg cgtgagggta 10140

gactggaagt catccatgtc cacaaagcgg tggtatgcgc ccgtgttgat ggtgtaagtg 10200

cagttggcca taacggacca gttaacggtc tggtgacccg gctgcgagag ctcggtgtac 10260

ctgagacgcg agtaagccct cgagtcaaat acgtagtcgt tgcaagtccg caccaggtac 10320

tggtatccca ccaaaaagtg cggcggcggc tggcggtaga ggggccagcg tagggtggcc 10380

ggggctccgg gggcgagatc ttccaacata aggcgatgat atccgtagat gtacctggac 10440

atccaggtga tgccggcggc ggtggtggag gcgcgcggaa agtcgcggac gcggttccag 10500

atgttgcgca gcggcaaaaa gtgctccatg gtcgggacgc tctggccggt caggcgcgcg 10560

caatcgttga cgctctaccg tgcaaaagga gagcctgtaa gcgggcactc ttccgtggtc 10620

tggtggataa attcgcaagg gtatcatggc ggacgaccgg ggttcgagcc ccgtatccgg 10680

ccgtccgccg tgatccatgc ggttaccgcc cgcgtgtcga acccaggtgt gcgacgtcag 10740

acaacggggg agtgctcctt ttggcttcct tccaggcgcg gcggctgctg cgctagcttt 10800

tttggccact ggccgcgcgc agcgtaagcg gttaggctgg aaagcgaaag cattaagtgg 10860

ctcgctccct gtagccggag ggttattttc caagggttga gtcgcgggac ccccggttcg 10920

agtctcggac cggccggact gcggcgaacg ggggtttgcc tccccgtcat gcaagacccc 10980

gcttgcaaat tcctccggaa acagggacga gccccttttt tgcttttccc agatgcatcc 11040

ggtgctgcgg cagatgcgcc cccctcctca gcagcggcaa gagcaagagc agcggcagac 11100

atgcagggca ccctcccctc ctcctaccgc gtcaggaggg gcgacatccg cggttgacgc 11160

ggcagcagat ggtgattacg aacccccgcg gcgccgggcc cggcactacc tggacttgga 11220

ggagggcgag ggcctggcgc ggctaggagc gccctctcct gagcggtacc caagggtgca 11280

gctgaagcgt gatacgcgtg aggcgtacgt gccgcggcag aacctgtttc gcgaccgcga 11340

gggagaggag cccgaggaga tgcgggatcg aaagttccac gcagggcgcg agctgcggca 11400

tggcctgaat cgcgagcggt tgctgcgcga ggaggacttt gagcccgacg cgcgaaccgg 11460

gattagtccc gcgcgcgcac acgtggcggc cgccgacctg gtaaccgcat acgagcagac 11520

ggtgaaccag gagattaact ttcaaaaaag ctttaacaac cacgtgcgta cgcttgtggc 11580

gcgcgaggag gtggctatag gactgatgca tctgtgggac tttgtaagcg cgctggagca 11640

aaacccaaat agcaagccgc tcatggcgca gctgttcctt atagtgcagc acagcaggga 11700

caacgaggca ttcagggatg cgctgctaaa catagtagag cccgagggcc gctggctgct 11760

cgatttgata aacatcctgc agagcatagt ggtgcaggag cgcagcttga gcctggctga 11820

caaggtggcc gccatcaact attccatgct tagcctgggc aagttttacg cccgcaagat 11880

ataccatacc ccttacgttc ccatagacaa ggaggtaaag atcgaggggt tctacatgcg 11940

catggcgctg aaggtgctta ccttgagcga cgacctgggc gtttatcgca acgagcgcat 12000

ccacaaggcc gtgagcgtga gccggcggcg cgagctcagc gaccgcgagc tgatgcacag 12060

cctgcaaagg gccctggctg gcacgggcag cggcgataga gaggccgagt cctactttga 12120

cgcgggcgct gacctgcgct gggccccaag ccgacgcgcc ctggaggcag ctggggccgg 12180

acctgggctg gcggtggcac ccgcgcgcgc tggcaacgtc ggcggcgtgg aggaatatga 12240

cgaggacgat gagtacgagc cagaggacgg cgagtactaa gcggtgatgt ttctgatcag 12300

atgatgcaag acgcaacgga cccggcggtg cgggcggcgc tgcagagcca gccgtccggc 12360

cttaactcca cggacgactg gcgccaggtc atggaccgca tcatgtcgct gactgcgcgc 12420

aatcctgacg cgttccggca gcagccgcag gccaaccggc tctccgcaat tctggaagcg 12480

gtggtcccgg cgcgcgcaaa ccccacgcac gagaaggtgc tggcgatcgt aaacgcgctg 12540

gccgaaaaca gggccatccg gcccgacgag gccggcctgg tctacgacgc gctgcttcag 12600

cgcgtggctc gttacaacag cggcaacgtg cagaccaacc tggaccggct ggtgggggat 12660

gtgcgcgagg ccgtggcgca gcgtgagcgc gcgcagcagc agggcaacct gggctccatg 12720

gttgcactaa acgccttcct gagtacacag cccgccaacg tgccgcgggg acaggaggac 12780

tacaccaact ttgtgagcgc actgcggcta atggtgactg agacaccgca aagtgaggtg 12840

taccagtctg ggccagacta ttttttccag accagtagac aaggcctgca gaccgtaaac 12900

ctgagccagg ctttcaaaaa cttgcagggg ctgtgggggg tgcgggctcc cacaggcgac 12960

cgcgcgaccg tgtctagctt gctgacgccc aactcgcgcc tgttgctgct gctaatagcg 13020

cccttcacgg acagtggcag cgtgtcccgg gacacatacc taggtcactt gctgacactg 13080

taccgcgagg ccataggtca ggcgcatgtg gacgagcata ctttccagga gattacaagt 13140

gtcagccgcg cgctggggca ggaggacacg ggcagcctgg aggcaaccct aaactacctg 13200

ctgaccaacc ggcggcagaa gatcccctcg ttgcacagtt taaacagcga ggaggagcgc 13260

attttgcgct acgtgcagca gagcgtgagc cttaacctga tgcgcgacgg ggtaacgccc 13320

agcgtggcgc tggacatgac cgcgcgcaac atggaaccgg gcatgtatgc ctcaaaccgg 13380

ccgtttatca accgcctaat ggactacttg catcgcgcgg ccgccgtgaa ccccgagtat 13440

ttcaccaatg ccatcttgaa cccgcactgg ctaccgcccc ctggtttcta caccgggggga 13500

ttcgaggtgc ccgagggtaa cgatggattc ctctgggacg acatagacga cagcgtgttt 13560

tccccgcaac cgcagaccct gctagagttg caacagcgcg agcaggcaga ggcggcgctg 13620

cgaaaggaaa gcttccgcag gccaagcagc ttgtccgatc taggcgctgc ggccccgcgg 13680

tcagatgcta gtagcccatt tccaagcttg atagggtctc ttaccagcac tcgcaccacc 13740

cgcccgcgcc tgctgggcga ggaggagtac ctaaacaact cgctgctgca gccgcagcgc 13800

gaaaaaaacc tgcctccggc atttcccaac aacgggatag agagcctagt ggacaagatg 13860

agtagatgga agacgtacgc gcaggagcac agggacgtgc caggcccgcg cccgcccacc 13920

cgtcgtcaaa ggcacgaccg tcagcggggt ctggtgtggg aggacgatga ctcggcagac 13980

gacagcagcg tcctggattt gggagggagt ggcaacccgt ttgcgcacct tcgccccagg 14040

ctggggagaa tgttttaaaa aaaaaaaagc atgatgcaaa ataaaaaact caccaaggcc 14100

atggcaccga gcgttggttt tcttgtattc cccttagtat gcggcgcgcg gcgatgtatg 14160

aggaaggtcc tcctccctcc tacgagagtg tggtgagcgc ggcgccagtg gcggcggcgc 14220

tgggttctcc cttcgatgct cccctggacc cgccgtttgt gcctccgcgg tacctgcggc 14280

ctaccggggg gagaaacagc atccgttact ctgagttggc acccctattc gacaccaccc 14340

gtgtgtacct ggtggacaac aagtcaacgg atgtggcatc cctgaactac cagaacgacc 14400

acagcaactt tctgaccacg gtcattcaaa acaatgacta cagcccgggg gaggcaagca 14460

cacagaccat caatcttgac gaccggtcgc actggggcgg cgacctgaaa accatcctgc 14520

ataccaacat gccaaatgtg aacgagttca tgtttaccaa taagtttaag gcgcgggtga 14580

tggtgtcgcg cttgcctact aaggacaatc aggtggagct gaaatacgag tgggtggagt 14640

tcacgctgcc cgagggcaac tactccgaga ccatgaccat agaccttatg aacaacgcga 14700

tcgtggagca ctacttgaaa gtgggcagac agaacggggt tctggaaagc gacatcgggg 14760

taaagtttga cacccgcaac ttcagactgg ggtttgaccc cgtcactggt cttgtcatgc 14820

ctggggtata tacaaacgaa gccttccatc cagacatcat tttgctgcca ggatgcgggg 14880

tggacttcac ccacagccgc ctgagcaact tgttgggcat ccgcaagcgg caacccttcc 14940

aggagggctt taggatcacc tacgatgatc tggagggtgg taacattccc gcactgttgg 15000

atgtggacgc ctaccaggcg agcttgaaag atgacaccga acagggcggg ggtggcgcag 15060

gcggcagcaa cagcagtggc agcggcgcgg aagagaactc caacgcggca gccgcggcaa 15120

tgcagccggt ggaggacatg aacgatcatg ccattcgcgg cgacaccttt gccacacggg 15180

ctgaggagaa gcgcgctgag gccgaagcag cggccgaagc tgccgccccc gctgcgcaac 15240

ccgaggtcga gaagcctcag aagaaaccgg tgatcaaacc cctgacagag gacagcaaga 15300

aacgcagtta caacctaata agcaatgaca gcaccttcac ccagtaccgc agctggtacc 15360

ttgcatacaa ctacggcgac cctcagaccg gaatccgctc atggaccctg ctttgcactc 15420

ctgacgtaac ctgcggctcg gagcaggtct actggtcgtt gccagacatg atgcaagacc 15480

ccgtgacctt ccgctccacg cgccagatca gcaactttcc ggtggtgggc gccgagctgt 15540

tgcccgtgca ctccaagagc ttctacaacg accaggccgt ctactcccaa ctcatccgcc 15600

agtttacctc tctgacccac gtgttcaatc gctttcccga gaaccagatt ttggcgcgcc 15660

cgccagcccc caccatcacc accgtcagtg aaaacgttcc tgctctcaca gatcacggga 15720

cgctaccgct gcgcaacagc atcggaggag tccagcgagt gaccattact gacgccagac 15780

gccgcacctg cccctacgtt tacaaggccc tgggcatagt ctcgccgcgc gtcctatcga 15840

gccgcacttt ttgagcaagc atgtccatcc ttatatcgcc cagcaataac acaggctggg 15900

gcctgcgctt cccaagcaag atgtttggcg gggccaagaa gcgctccgac caacacccag 15960

tgcgcgtgcg cgggcactac cgcgcgccct ggggcgcgca caaacgcggc cgcactgggc 16020

gcaccaccgt cgatgacgcc atcgacgcgg tggtggagga ggcgcgcaac tacacgccca 16080

cgccgccacc agtgtccaca gtggacgcgg ccattcagac cgtggtgcgc ggagcccggc 16140

gctatgctaa aatgaagaga cggcggaggc gcgtagcacg tcgccaccgc cgccgacccg 16200

gcactgccgc ccaacgcgcg gcggcggccc tgcttaaccg cgcacgtcgc accggccgac 16260

gggcggccat gcgggccgct cgaaggctgg ccgcgggtat tgtcactgtg ccccccaggt 16320

ccaggcgacg agcggccgcc gcagcagccg cggccattag tgctatgact cagggtcgca 16380

ggggcaacgt gtattgggtg cgcgactcgg ttagcggcct gcgcgtgccc gtgcgcaccc 16440

gccccccgcg caactagatt gcaagaaaaa actacttaga ctcgtactgt tgtatgtatc 16500

cagcggcggc ggcgcgcaac gaagctatgt ccaagcgcaa aatcaaagaa gagatgctcc 16560

aggtcatcgc gccggagatc tatggccccc cgaagaagga agagcaggat tacaagcccc 16620

gaaagctaaa gcgggtcaaa aagaaaaaga aagatgatga tgatgaactt gacgacgagg 16680

tggaactgct gcacgctacc gcgcccaggc gacgggtaca gtggaaaggt cgacgcgtaa 16740

aacgtgtttt gcgacccggc accaccgtag tctttacgcc cggtgagcgc tccacccgca 16800

cctacaagcg cgtgtatgat gaggtgtacg gcgacgagga cctgcttgag caggccaacg 16860

agcgcctcgg ggagtttgcc tacggaaagc ggcataagga catgctggcg ttgccgctgg 16920

acgagggcaa cccaacacct agcctaaagc ccgtaacact gcagcaggtg ctgcccgcgc 16980

ttgcaccgtc cgaagaaaag cgcggcctaa agcgcgagtc tggtgacttg gcacccaccg 17040

tgcagctgat ggtacccaag cgccagcgac tggaagatgt cttggaaaaa atgaccgtgg 17100

aacctgggct ggagcccgag gtccgcgtgc ggccaatcaa gcaggtggcg ccgggactgg 17160

gcgtgcagac cgtggacgtt cagataccca ctaccagtag caccagtatt gccaccgcca 17220

cagagggcat ggagacacaa acgtccccgg ttgcctcagc ggtggcggat gccgcggtgc 17280

aggcggtcgc tgcggccgcg tccaagacct ctacggaggt gcaaacggac ccgtggatgt 17340

ttcgcgtttc agccccccgg cgcccgcgcg gttcgaggaa gtacggcgcc gccagcgcgc 17400

tactgcccga atatgcccta catccttcca ttgcgcctac ccccggctat cgtggctaca 17460

cctaccgccc cagaagacga gcaactaccc gacgccgaac caccactgga acccgccgcc 17520

gccgtcgccg tcgccagccc gtgctggccc cgatttccgt gcgcagggtg gctcgcgaag 17580

gaggcaggac cctggtgctg ccaacagcgc gctaccaccc cagcatcgtt taaaagccgg 17640

tctttgtggt tcttgcagat atggccctca cctgccgcct ccgtttcccg gtgccgggat 17700

tccgaggaag aatgcaccgt aggaggggca tggccggcca cggcctgacg ggcggcatgc 17760

gtcgtgcgca ccaccggcgg cggcgcgcgt cgcaccgtcg catgcgcggc ggtatcctgc 17820

ccctccttat tccactgatc gccgcggcga ttggcgccgt gcccggaatt gcatccgtgg 17880

ccttgcaggc gcagagacac tgattaaaaa caagttgcat gtggaaaaat caaaataaaa 17940

agtctggact ctcacgctcg cttggtcctg taactatttt gtagaatgga agacatcaac 18000

tttgcgtctc tggccccgcg acacggctcg cgcccgttca tgggaaactg gcaagatatc 18060

ggcaccagca atatgagcgg tggcgccttc agctggggct cgctgtggag cggcattaaa 18120

aatttcggtt ccaccgttaa gaactatggc agcaaggcct ggaacagcag cacaggccag 18180

atgctgaggg ataagttgaa agagcaaaat ttccaacaaa aggtggtaga tggcctggcc 18240

tctggcatta gcggggtggt ggacctggcc aaccaggcag tgcaaaataa gattaacagt 18300

aagcttgatc cccgccctcc cgtagaggag cctccaccgg ccgtggagac agtgtctcca 18360

gaggggcgtg gcgaaaagcg tccgcgcccc gacagggaag aaactctggt gacgcaaata 18420

gacgagcctc cctcgtacga ggaggcacta aagcaaggcc tgcccaccac ccgtcccatc 18480

gcgcccatgg ctaccggagt gctgggccag cacacacccg taacgctgga cctgcctccc 18540

cccgccgaca cccagcagaa acctgtgctg ccaggcccga ccgccgttgt tgtaacccgt 18600

cctagccgcg cgtccctgcg ccgcgccgcc agcggtccgc gatcgttgcg gcccgtagcc 18660

agtggcaact ggcaaagcac actgaacagc atcgtgggtc tgggggtgca atccctgaag 18720

cgccgacgat gcttctgaat agctaacgtg tcgtatgtgt gtcatgtatg cgtccatgtc 18780

gccgccagag gagctgctga gccgccgcgc gcccgctttc caagatggct acccccttcga 18840

tgatgccgca gtggtcttac atgcacatct cgggccagga cgcctcggag tacctgagcc 18900

ccgggctggt gcagtttgcc cgcgccaccg agacgtactt cagcctgaat aacaagttta 18960

gaaaccccac ggtggcgcct acgcacgacg tgaccacaga ccggtcccag cgtttgacgc 19020

tgcggttcat ccctgtggac cgtgaggata ctgcgtactc gtacaaggcg cggttcaccc 19080

tagctgtggg tgataaccgt gtgctggaca tggcttccac gtactttgac atccgcggcg 19140

tgctggacag gggccctact tttaagccct actctggcac tgcctacaac gccctggctc 19200

ccaagggtgc cccaaatcct tgcgaatggg atgaagctgc tactgctctt gaaataaacc 19260

tagaagaaga ggacgatgac aacgaagacg aagtagacga gcaagctgag cagcaaaaaa 19320

ctcacgtatt tgggcaggcg ccttattctg gtataaatat tacaaaggag ggtattcaaa 19380

taggtgtcga aggtcaaaca cctaaatatg ccgataaaac atttcaacct gaacctcaaa 19440

taggagaatc tcagtggtac gaaactgaaa ttaatcatgc agctgggaga gtccttaaaa 19500

agactacccc aatgaaacca tgttacggtt catatgcaaa acccacaaat gaaaatggag 19560

ggcaaggcat tcttgtaaag caacaaaatg gaaagctaga aagtcaagtg gaaatgcaat 19620

ttttctcaac tactgaggcg accgcaggca atggtgataa cttgactcct aaagtggtat 19680

tgtacagtga agatgtagat atagaaaccc cagacactca tatttcttac atgcccacta 19740

ttaaggaagg taactcacga gaactaatgg gccaacaatc tatgcccaac aggcctaatt 19800

acattgcttt tagggacaat tttattggtc taatgtatta caacagcacg ggtaatatgg 19860

gtgttctggc gggccaagca tcgcagttga atgctgttgt agatttgcaa gacagaaaca 19920

cagagctttc ataccagctt ttgcttgatt ccattggtga tagaaccagg tacttttcta 19980

tgtggaatca ggctgttgac agctatgatc cagatgttag aattattgaa aatcatggaa 20040

ctgaagatga acttccaaat tactgctttc cactgggagg tgtgattaat acagagactc 20100

ttaccaaggt aaaacctaaa acaggtcagg aaaatggatg ggaaaaagat gctacagaat 20160

tttcagataa aaatgaaata agagttggaa ataattttgc catggaaatc aatctaaatg 20220

ccaacctgtg gagaaatttc ctgtactcca acatagcgct gtatttgccc gacaagctaa 20280

agtacagtcc ttccaacgta aaaatttctg ataacccaaa cacctacgac tacatgaaca 20340

agcgagtggt ggctcccggg ttagtggact gctacattaa ccttggagca cgctggtccc 20400

ttgactatat ggacaacgtc aacccattta accaccaccg caatgctggc ctgcgctacc 20460

gctcaatgtt gctgggcaat ggtcgctatg tgcccttcca catccaggtg cctcagaagt 20520

tctttgccat taaaaacctc cttctcctgc cgggctcata cacctacgag tggaacttca 20580

ggaaggatgt taacatggtt ctgcagagct ccctaggaaa tgacctaagg gttgacggag 20640

ccagcattaa gtttgatagc atttgccttt acgccacctt cttccccatg gcccacaaca 20700

ccgcctccac gcttgaggcc atgcttagaa acgacaccaa cgaccagtcc tttaacgact 20760

atctctccgc cgccaacatg ctctacccta tacccgccaa cgctaccaac gtgcccatat 20820

ccatcccctc ccgcaactgg gcggctttcc gcggctgggc cttcacgcgc cttaagacta 20880

aggaaacccc atcactgggc tcgggctacg acccttatta cacctactct ggctctatac 20940

cctacctaga tggaaccttt tacctcaacc acacctttaa gaaggtggcc attacctttg 21000

actcttctgt cagctggcct ggcaatgacc gcctgcttac ccccaacgag tttgaaatta 21060

agcgctcagt tgacggggag ggttacaacg ttgcccagtg taacatgacc aaagactggt 21120

tcctggtaca aatgctagct aactacaaca ttggctacca gggcttctat atcccagaga 21180

gctacaagga ccgcatgtac tccttcttta gaaacttcca gcccatgagc cgtcaggtgg 21240

tggatgatac taaatacaag gactaccaac aggtgggcat cctacaccaa cacaacaact 21300

ctggatttgt tggctacctt gcccccacca tgcgcgaagg acaggcctac cctgctaact 21360

tcccctatcc gcttataggc aagaccgcag ttgacagcat tacccagaaa aagtttcttt 21420

gcgatcgcac cctttggcgc atcccattct ccagtaactt tatgtccatg ggcgcactca 21480

cagacctggg ccaaaacctt ctctacgcca actccgccca cgcgctagac atgacttttg 21540

aggtggatcc catggacgag cccacccttc tttatgtttt gtttgaagtc tttgacgtgg 21600

tccgtgtgca ccggccgcac cgcggcgtca tcgaaaccgt gtacctgcgc acgcccttct 21660

cggccggcaa cgccacaaca taaagaagca agcaacatca acaacagctg ccgccatggg 21720

ctccagtgag caggaactga aagccattgt caaagatctt ggttgtgggc catatttttt 21780

gggcacctat gacaagcgct ttccaggctt tgtttctcca cacaagctcg cctgcgccat 21840

agtcaatacg gccggtcgcg agactggggg cgtacactgg atggcctttg cctggaaccc 21900

gcactcaaaa acatgctacc tctttgagcc ctttggcttt tctgaccagc gactcaagca 21960

ggtttaccag tttgagtacg agtcactcct gcgccgtagc gccattgctt cttcccccga 22020

ccgctgtata acgctggaaa agtccaccca aagcgtacag gggcccaact cggccgcctg 22080

tggactattc tgctgcatgt ttctccacgc ctttgccaac tggccccaaa ctcccatgga 22140

tcacaacccc accatgaacc ttattaccgg ggtacccaac tccatgctca acagtcccca 22200

ggtacagccc accctgcgtc gcaaccagga acagctctac agcttcctgg agcgccactc 22260

gccctacttc cgcagccaca gtgcgcagat taggagcgcc acttcttttt gtcacttgaa 22320

aaacatgtaa aaataatgta ctagagacac tttcaataaa ggcaaatgct tttatttgta 22380

cactctcggg tgattattta cccccaccct tgccgtctgc gccgtttaaa aatcaaaggg 22440

gttctgccgc gcatcgctat gcgccactgg cagggacacg ttgcgatact ggtgtttagt 22500

gctccactta aactcaggca caaccatccg cggcagctcg gtgaagtttt cactccacag 22560

gctgcgcacc atcaccaacg cgtttagcag gtcgggcgcc gatatcttga agtcgcagtt 22620

ggggcctccg ccctgcgcgc gcgagttgcg atacacaggg ttgcagcact ggaacactat 22680

cagcgccggg tggtgcacgc tggccagcac gctcttgtcg gagatcagat ccgcgtccag 22740

gtcctccgcg ttgctcaggg cgaacggagt caactttggt agctgccttc ccaaaaaggg 22800

cgcgtgccca ggctttgagt tgcactcgca ccgtagtggc atcaaaaggt gaccgtgccc 22860

ggtctgggcg ttaggataca gcgcctgcat aaaagccttg atctgcttaa aagccacctg 22920

agcctttgcg ccttcagaga agaacatgcc gcaagacttg ccggaaaact gattggccgg 22980

acaggccgcg tcgtgcacgc agcaccttgc gtcggtgttg gagatctgca ccacatttcg 23040

gccccaccgg ttcttcacga tcttggcctt gctagactgc tccttcagcg cgcgctgccc 23100

gttttcgctc gtcacatcca tttcaatcac gtgctcctta tttatcataa tgcttccgtg 23160

tagacactta agctcgcctt cgatctcagc gcagcggtgc agccacaacg cgcagcccgt 23220

gggctcgtga tgcttgtagg tcacctctgc aaacgactgc aggtacgcct gcaggaatcg 23280

ccccatcatc gtcacaaagg tcttgttgct ggtgaaggtc agctgcaacc cgcggtgctc 23340

ctcgttcagc caggtcttgc atacggccgc cagagcttcc acttggtcag gcagtagttt 23400

gaagttcgcc tttagatcgt tatccacgtg gtacttgtcc atcagcgcgc gcgcagcctc 23460

catgcccttc tcccacgcag acacgatcgg cacactcagc gggttcatca ccgtaatttc 23520

actttccgct tcgctgggct cttcctcttc ctcttgcgtc cgcataccac gcgccactgg 23580

gtcgtcttca ttcagccgcc gcactgtgcg cttacctcct ttgccatgct tgattagcac 23640

cggtgggttg ctgaaaccca ccatttgtag cgccacatct tctctttctt cctcgctgtc 23700

cacgattacc tctggtgatg gcgggcgctc gggcttggga gaagggcgct tctttttctt 23760

cttgggcgca atggccaaat ccgccgccga ggtcgatggc cgcgggctgg gtgtgcgcgg 23820

caccagcgcg tcttgtgatg agtcttcctc gtcctcggac tcgatacgcc gcctcatccg 23880

ctttttgggg ggcgcccggg gaggcggcgg cgacggggac ggggacgaca cgtcctccat 23940

ggttgggggа cgtcgcgccg caccgcgtcc gcgctcgggg gtggtttcgc gctgctcctc 24000

ttcccgactg gccatttcct tctcctatag gcagaaaaag atcatggagt cagtcgagaa 24060

gaaggacagc ctaaccgccc cctctgagtt cgccaccacc gcctccaccg atgccgccaa 24120

cgcgcctacc accttccccg tcgaggcacc cccgcttgag gaggaggaag tgattatcga 24180

gcaggaccca ggttttgtaa gcgaagacga cgaggaccgc tcagtaccaa cagaggataa 24240

aaagcaagac caggacaacg cagaggcaaa cgaggaacaa gtcgggcggg gggacgaaag 24300

gcatggcgac tacctagatg tgggagacga cgtgctgttg aagcatctgc agcgccagtg 24360

cgccattatc tgcgacgcgt tgcaagagcg cagcgatgtg cccctcgcca tagcggatgt 24420

cagccttgcc tacgaacgcc acctattctc accgcgcgta ccccccaaac gccaagaaaa 24480

cggcacatgc gagcccaacc cgcgcctcaa cttctacccc gtatttgccg tgccagaggt 24540

gcttgccacc tatcacatct ttttccaaaa ctgcaagata cccctatcct gccgtgccaa 24600

ccgcagccga gcggacaagc agctggcctt gcggcagggc gctgtcatac ctgatatcgc 24660

ctcgctcaac gaagtgccaa aaatctttga gggtcttgga cgcgacgaga agcgcgcggc 24720

aaacgctctg caacaggaaa acagcgaaaa tgaaagtcac tctggagtgt tggtggaact 24780

cgagggtgac aacgcgcgcc tagccgtact aaaacgcagc atcgaggtca cccactttgc 24840

ctacccggca cttaacctac cccccaaggt catgagcaca gtcatgagtg agctgatcgt 24900

gcgccgtgcg cagcccctgg agagggatgc aaatttgcaa gaacaaacag aggagggcct 24960

acccgcagtt ggcgacgagc agctagcgcg ctggcttcaa acgcgcgagc ctgccgactt 25020

ggaggagcga cgcaaactaa tgatggccgc agtgctcgtt accgtggagc ttgagtgcat 25080

gcagcggttc tttgctgacc cggagatgca gcgcaagcta gaggaaacat tgcactacac 25140

ctttcgacag ggctacgtac gccaggcctg caagatctcc aacgtggagc tctgcaacct 25200

ggtctcctac cttggaattt tgcacgaaaa ccgccttggg caaaacgtgc ttcattccac 25260

gctcaagggc gaggcgcgcc gcgactacgt ccgcgactgc gtttacttat ttctatgcta 25320

cacctggcag acggccatgg gcgtttggca gcagtgcttg gaggagtgca acctcaagga 25380

gctgcagaaa ctgctaaagc aaaacttgaa ggacctatgg acggccttca acgagcgctc 25440

cgtggccgcg cacctggcgg acatcatttt ccccgaacgc ctgcttaaaa ccctgcaaca 25500

gggtctgcca gacttcacca gtcaaagcat gttgcagaac tttaggaact ttatcctaga 25560

gcgctcagga atcttgcccg ccacctgctg tgcacttcct agcgactttg tgcccattaa 25620

gtaccgcgaa tgccctccgc cgctttgggg ccactgctac cttctgcagc tagccaacta 25680

ccttgcctac cactctgaca taatggaaga cgtgagcggt gacggtctac tggagtgtca 25740

ctgtcgctgc aacctatgca ccccgcaccg ctccctggtt tgcaattcgc agctgcttaa 25800

cgaaagtcaa attatcggta cctttgagct gcagggtccc tcgcctgacg aaaagtccgc 25860

ggctccgggg ttgaaactca ctccggggct gtggacgtcg gcttaccttc gcaaatttgt 25920

acctgaggac taccacgccc acgagattag gttctacgaa gaccaatccc gcccgccaaa 25980

tgcggagctt accgcctgcg tcattaccca gggccacatt cttggccaat tgcaagccat 26040

caacaaagcc cgccaagagt ttctgctacg aaagggacgg ggggtttact tggaccccca 26100

gtccggcgag gagctcaacc caatcccccc gccgccgcag ccctatcagc agcagccgcg 26160

ggcccttgct tcccaggatg gcacccaaaa agaagctgca gctgccgccg ccacccacgg 26220

acgaggagga atactgggac agtcaggcag aggaggtttt ggacgaggag gaggaggaca 26280

tgatggaaga ctgggagagc ctagacgagg aagcttccga ggtcgaagag gtgtcagacg 26340

aaacaccgtc accctcggtc gcattccccc cgccggcgcc ccagaaatcg gcaaccggtt 26400

ccagcatggc tacaacctcc gctcctcagg cgccgccggc actgcccgtt cgccgaccca 26460

accgtagatg ggacaccact ggaaccaggg ccggtaagtc caagcagccg ccgccgttag 26520

cccaagagca acaacagcgc caaggctacc gctcatggcg cgggcacaag aacgccatag 26580

ttgcttgctt gcaagactgt gggggcaaca tctccttcgc ccgccgcttt cttctctacc 26640

atcacggcgt ggccttcccc cgtaacatcc tgcattacta ccgtcatctc tacagcccat 26700

actgcaccgg cggcagcggc agcggcagca acagcagcgg ccacacagaa gcaaaggcga 26760

ccggatagca agactctgac aaagcccaag aaatccacag cggcggcagc agcaggagga 26820

ggagcgctgc gtctggcgcc caacgaaccc gtatcgaccc gcgagcttag aaacaggatt 26880

tttcccactc tgtatgctat atttcaacag agcaggggcc aagaacaaga gctgaaaata 26940

aaaaacaggt ctctgcgatc cctcacccgc agctgcctgt atcacaaaag cgaagatcag 27000

cttcggcgca cgctggaaga cgcggaggct ctcttcagta aatactgcgc gctgactctt 27060

aaggactagt ttcgcgccct ttctcaaatt taagcgcgaa aactacgtca tctccagcgg 27120

ccacacccgg cgccagcacc tgtcgtcagc gccattatga gcaaggaaat tcccacgccc 27180

tacatgtgga gttaccagcc acaaatggga cttgcggctg gagctgccca agactactca 27240

acccgaataa actacatgag cgcgggaccc cacatgatat cccgggtcaa cggaatccgc 27300

gcccaccgaa accgaattct cttggaacag gcggctatta ccaccacacc tcgtaataac 27360

cttaatcccc gtagttggcc cgctgccctg gtgtaccagg aaagtcccgc tcccaccact 27420

gtggtacttc ccagagacgc ccaggccgaa gttcagatga ctaactcagg ggcgcagctt 27480

gcgggcggct ttcgtcacag ggtgcggtcg cccgggcagg gtataactca cctgacaatc 27540

agagggcgag gtattcagct caacgacgag tcggtgagct cctcgcttgg tctccgtccg 27600

gacgggacat ttcagatcgg cggcgccggc cgtccttcat tcacgcctcg tcaggcaatc 27660

ctaactctgc agacctcgtc ctctgagccg cgctctggag gcattggaac tctgcaattt 27720

attgaggagt ttgtgccatc ggtctacttt aacccccttct cgggacctcc cggccactat 27780

ccggatcaat ttattcctaa ctttgacgcg gtaaaggact cggcggacgg ctacgactga 27840

atgttaagtg gagaggcaga gcaactgcgc ctgaaacacc tggtccactg tcgccgccac 27900

aagtgctttg cccgcgactc cggtgagttt tgctactttg aattgcccga ggatcatatc 27960

gagggcccgg cgcacggcgt ccggcttacc gcccagggag agcttgcccg tagcctgatt 28020

cgggagttta cccagcgccc cctgctagtt gagcgggaca ggggaccctg tgttctcact 28080

gtgatttgca actgtcctaa ccttggatta catcaagatc ctctagttat aactagagta 28140

cccggggatc ttattccctt taactaataa aaaaaaataa taaagcatca cttacttaaa 28200

atcagttagc aaatttctgt ccagtttatt cagcagcacc tccttgccct cctcccagct 28260

ctggtattgc agcttcctcc tggctgcaaa ctttctccac aatctaaatg gaatgtcagt 28320

ttcctcctgt tcctgtccat ccgcacccac tatcttcatg ttgttgcaga tgaagcgcgc 28380

aagaccgtct gaagatacct tcaaccccgt gtatccatat gacacggaaa ccggtcctcc 28440

aactgtgcct tttcttactc ctccctttgt atcccccaat gggtttcaag agagtccccc 28500

tggggtactc tctttgcgcc tatccgaacc tctagttacc tccaatggca tgcttgcgct 28560

caaaatgggc aacggcctct ctctggacga ggccggcaac cttacctccc aaaatgtaac 28620

cactgtgagc ccacctctca aaaaaaccaa gtcaaacata aacctggaaa tatctgcacc 28680

cctcacagtt acctcagaag ccctaactgt ggctgccgcc gcacctctaa tggtcgcggg 28740

caacacactc accatgcaat cacaggcccc gctaaccgtg cacgactcca aacttagcat 28800

tgccacccaa ggacccctca cagtgtcaga aggaaagcta gccctgcaaa catcaggccc 28860

cctcaccacc accgatagca gtacccttac tatcactgcc tcacccccctc taactactgc 28920

cactggtagc ttgggcattg acttgaaaga gcccatttat acacaaaatg gaaaactagg 28980

actaaagtac ggggctcctt tgcatgtaac agacgaccta aacactttga ccgtagcaac 29040

tggtccaggt gtgactatta ataatacttc cttgcaaact aaagttactg gagccttggg 29100

ttttgattca caaggcaata tgcaacttaa tgtagcagga ggactaagga ttgattctca 29160

aaacagacgc cttatacttg atgttagtta tccgtttgat gctcaaaacc aactaaatct 29220

aagactagga cagggccctc tttttataaa ctcagcccac aacttggata ttaactacaa 29280

caaaggcctt tacttgttta cagcttcaaa caattccaaa aagcttgagg ttaacctaag 29340

cactgccaag gggttgatgt ttgacgctac agccatagcc attaatgcag gagatgggct 29400

tgaatttggt tcacctaatg caccaaacac aaatcccctc aaaacaaaaa ttggccatgg 29460

cctagaattt gattcaaaca aggctatggt tcctaaacta ggaactggcc ttagttttga 29520

cagcacaggt gccattacag taggaaacaa aaataatgat aagctaactt tgtggaccac 29580

accagctcca tctcctaact gtagactaaa tgcagagaaa gatgctaaac tcactttggt 29640

cttaacaaaa tgtggcagtc aaatacttgc tacagtttca gttttggctg ttaaaggcag 29700

tttggctcca atatctggaa cagttcaaag tgctcatctt attataagat ttgacgaaaa 29760

tggagtgcta ctaaacaatt ccttcctgga cccagaatat tggaacttta gaaatggaga 29820

tcttactgaa ggcacagcct atacaaacgc tgttggattt atgcctaacc tatcagctta 29880

tccaaaatct cacggtaaaa ctgccaaaag taacattgtc agtcaagttt acttaaacgg 29940

agacaaaact aaacctgtaa cactaaccat tacactaaac ggtacacagg aaacaggaga 30000

cacaactcca agtgcatact ctatgtcatt ttcatgggac tggtctggcc acaactacat 30060

taatgaaata tttgccacat cctcttacac tttttcatac attgcccaag aataaagaat 30120

cgtttgtgtt atgtttcaac gtgtttattt ttcaattgca gaaaatttca agtcattttt 30180

cattcagtag tatagcccca ccaccacata gcttatacag atcaccgtac cttaatcaaa 30240

ctcacagaac cctagtattc aacctgccac ctccctccca acacacagag tacacagtcc 30300

tttctccccg gctggcctta aaaagcatca tatcatgggt aacagacata ttcttaggtg 30360

ttatattcca cacggtttcc tgtcgagcca aacgctcatc aagtgatatt aataaactcc 30420

ccgggcagct cacttaagtt catgtcgctg tccagctgct gagccacagg ctgctgtcca 30480

acttgcggtt gcttaacggg cggcgaagga gaagtccacg cctacatggg gggagagtca 30540

taatcgtgca tcaggatagg gcggtggtgc tgcagcagcg cgcgaataaa ctgctgccgc 30600

cgccgctccg tcctgcagga atacaacatg gcagtggtct cctcagcgat gattcgcacc 30660

gcccgcagca taaggcgctt gtcctccggg cacagcagcg caccctgatc tcacttaaat 30720

cagcacagta actgcagcac agcaccacaa tattgttcaa aatcccacag tgcaaggcgc 30780

tgtatccaaa gctcatggcg gggaccacag aacccacgtg gccatcatac cacaagcgca 30840

ggtagattaa gtggcgaccc ctcataaaca cgctggacat aaacattacc tcttttggca 30900

tgttgtaatt caccacctcc cggtaccata taaacctctg attaaacatg gcgccatcca 30960

ccaccatcct aaaccagctg gccaaaacct gccccgccgg gntatacact gcagggaacc 31020

gggacttgga caatgacaag tgggagagcc caggactcgt aaccatggat catcatgctc 31080

gtcatgatat caatgttggc acaacacagg cacacgtgca tacacttcct caggattaca 31140

agctcctccc gcgttagaac catatcccag ggaacaaccc attcctgaat cagcgtaaat 31200

cccacactgc agggaagacc tcgcacgtaa ctcacgttgt gcattgtcaa agtgttacat 31260

tcgggcagca gcggatgatc ctccagtatg gtagcgcggg tttctgtctc aaaaggaggt 31320

agacgatccc tactgtacgg agtgcgccga gacaaccgag atcgtgttgg tcgtagtgtc 31380

atgccaaatg gaacgccgga cgtagtcata tttcctgaag caaaaccagg tgcgggcgtg 31440

acaaacagat ctgcgtctcc ggtctcgccg cttagatcgc tctgtgtagt agttgtagta 31500

tatccactct ctcaaagcat ccaggcgccc cctggcttcg ggttctatgt aaactccttc 31560

atgcgccgct gccctgataa catccaccac cgcagaataa gccacaccca gccaacctac 31620

acattcgttc tgcgagtcac acacgggagg agcgggaaga gctggaagaa ccatgttttt 31680

ttttttattc caaaagatta tccaaaacct caaaatgaag atctattaag tgaacgcgct 31740

cccctccggt ggcgtggtca aactctacag ccaaagaaca gataatggca tttgtaagat 31800

gttgcacaat ggcttccaaa aggcaaacgg ccctcacgtc caagtggacg taaaggctaa 31860

acccttcagg gtgaatctcc tctataaaca ttccagcacc ttcaaccatg cccaaataat 31920

tctcatctcg ccaccttctc aatatatctc taagcaaatc ccgaatattt aagtccgggc 31980

cattgtaaaa aatttggctc cagagcgccc tccaccttca gcctcaagca gcgaatcatg 32040

attgcaaaaa ttcaggttcc tcacagacct gtataagatt caaaagcgga acattaacaa 32100

aaataccgcg atcccgtagg tcccttcgca gggccagctg aacataatcg tgcaggtctg 32160

cacggaccag cgcggccact tccccgccag gaaccatgac aaaagaaccc acactgatta 32220

tgacacgcat actcggagct atgctaacca gcgtagcccc gatgtaagct tgttgcatgg 32280

gcggcgatat aaaatgcaag gtgctgctca aaaaatcagg caaagcctcg cgcaaaaaag 32340

aaagcacatc gtagtcatgc tcatgcagat aaaggcaggt aagctccgga accaccacag 32400

aaaaagacac catttttctc tcaaacatgt ctgcgggttt ctgcataaac acaaaataaa 32460

ataacaaaaa aacatttaaa cattagaagc ctgtcttaca acaggaaaaa caacccttat 32520

aagcataaga cggactacgg ccatgccggc gtgaccgtaa aaaaactggt caccgtgatt 32580

aaaaagcacc accgacagct cctcggtcag tccggagtca taatgtaaga ctcggtaaac 32640

acatcaggtt gattcacatc ggtcagtgtt aaaaagcgac cgaaatagcc cgggggaata 32700

catacccgca ggcgtagaga caacattaca gcccccatag gaggtataac aaaattaata 32760

ggagagaaaa acacataaac acctgaaaaa ccctcctgcc taggcaaaat agcaccctcc 32820

cgctccagaa caacatacag cgcttcacag cggcagccta acagtcagcc ttaccagtaa 32880

aaaagaaaac ctattaaaaa aacaccactc gacacggcac cagctcaatc agtcacagtg 32940

taaaaaaggg ccaagtgcag agcgagtata tataggacta aaaaatgacg taacggttaa 33000

agtccacaaa aaacacccag aaaaccgcac gcgaacctac gcccagaaac gaaagccaaa 33060

aaacccacaa cttcctcaaa tcgtcacttc cgttttccca cgttacgtaa cttcccattt 33120

taagaaaact acaattccca acacatacaa gttactccgc cctaaaacct acgtcacccg 33180

ccccgttccc acgccccgcg ccacgtcaca aactccaccc cctcattatc atattggctt 33240

caatccaaaa taaggtatat tattgatgat gnnttaatta agggcggccg cacgggccat 33300

cgatggatcc gcggaagctt ctcgacccat tctcatgttt gacagcttat catcgaattt 33360

ctgccattca tccgcttatt atcacttatt caggcgtagc aaccaggcgt ttaagggcac 33420

caataactgc cttaaaaaaa ttacgccccg ccctgccact catcgcagta ctgttgtaat 33480

tcattaagca ttctgccgac atggaagcca tcacagacgg catgatgaac ctgaatcgcc 33540

agcggcatca gcaccttgtc gccttgcgta taatatttgc ccatggtgaa aacgggggcg 33600

aagaagttgt ccatattggc cacgtttaaa tcaaaactgg tgaaactcac ccagggattg 33660

gctgagacga aaaacatatt ctcaataaac cctttaggga aataggccag gttttcaccg 33720

taacacgcca catcttgcga atatatgtgt agaaactgcc ggaaatcgtc gtggtattca 33780

ctccagagcg atgaaaacgt ttcagtttgc tcatggaaaa cggtgtaaca agggtgaaca 33840

ctatcccata tcaccagctc accgtctttc attgccatac ggaattccgg atgagcattc 33900

atcaggcggg caagaatgtg aataaaggcc ggataaaact tgtgcttatt tttctttacg 33960

gtctttaaaa aggccgtaat atccagctga acggtctggt tataggtaca ttgagcaact 34020

gactgaaatg cctcaaaatg ttctttacga tgccattggg atatatcaac ggtggtatat 34080

ccagtgattt ttttctccat tttagcttcc ttagctcctg aaaatctcga taactcaaaa 34140

aatacgcccg gtagtgatct tatttcatta tggtgaaagt tggaacctct tacgtgccga 34200

tcaacgtctc attttcgcca aaagttggcc cagggcttcc cggtatcaac agggacacca 34260

ggatttattt attctgcgaa gtgatcttcc gtcacaggta tttattcgcg ataagctcat 34320

ggagcggcgt aaccgtcgca caggaaggac agagaaagcg cggatctggg aagtgacgga 34380

cagaacggtc aggacctgga ttggggaggc ggttgccgcc gctgctgctg acggtgtgac 34440

gttctctgtt ccggtcacac cacatacgtt ccgccattcc tatgcgatgc acatgctgta 34500

tgccggtata ccgctgaaag ttctgcaaag cctgatggga cataagtcca tcagttcaac 34560

ggaagtctac acgaaggttt ttgcgctgga tgtggctgcc cggcaccggg tgcagtttgc 34620

gatgccggag tctgatgcgg ttgcgatgct gaaacaatta tcctgagaat aaatgccttg 34680

gcctttatat ggaaatgtgg aactgagtgg atatgctgtt tttgtctgtt aaacagagaa 34740

gctggctgtt atccactgag aagcgaacga aacagtcggg aaaatctccc attatcgtag 34800

agatccgcat tattaatctc aggagcctgt gtagcgttta taggaagtag tgttctgtca 34860

tgatgcctgc aagcggtaac gaaaacgatt tgaatatgcc ttcaggaaca atagaaatct 34920

tcgtgcggtg ttacgttgaa gtggagcgga ttatgtcagc aatggacaga acaacctaat 34980

gaacacagaa ccatgatgtg gtctgtcctt ttacagccag taggctcgcc gcagtcgagc 35040

gacggcgaag ccctcgagtg agcgaggaag caccagggaa cagcacttat atattctgct 35100

tacacacgat gcctgaaaaa acttcccttg gggttatcca cttatccacg gggatatttt 35160

tataattatt ttttttatag tttttagatc ttctttttta gagcgccttg taggccttta 35220

tccatgctgg ttctagagaa ggtgttgtga caaattgccc tttcagtgtg acaaatcacc 35280

ctcaaatgac agtcctgtct gtgacaaatt gcccttaacc ctgtgacaaa ttgccctcag 35340

aagaagctgt tttttcacaa agttatccct gcttattgac tctttttttat ttagtgtgac 35400

aatctaaaaa cttgtcacac ttcacatgga tctgtcatgg cggaaacagc ggttatcaat 35460

cacaagaaac gtaaaaatag cccgcgaatc gtccagtcaa acgacctcac tgaggcggca 35520

tatagtctct cccgggatca aaaacgtatg ctgtatctgt tcgttgacca gatcagaaaa 35580

tctgatggca ccctacagga acatgacggt atctgcgaga tccatgttgc taaatatgct 35640

gaaatattcg gattgacctc tgcggaagcc agtaaggata tacggcaggc attgaagagt 35700

ttcgcgggga aggaagtggt tttttatcgc cctgaagagg atgccggcga tgaaaaaggc 35760

tatgaatctt ttccttggtt tatcaaacgt gcgcacagtc catccagagg gctttacagt 35820

gtacatatca acccatatct cattcccttc tttatcgggt tacagaaccg gtttacgcag 35880

tttcggctta gtgaaacaaa agaaatcacc aatccgtatg ccatgcgttt atacgaatcc 35940

ctgtgtcagt atcgtaagcc ggatggctca ggcatcgtct ctctgaaaat cgactggatc 36000

atagagcgtt accagctgcc tcaaagttac cagcgtatgc ctgacttccg ccgccgcttc 36060

ctgcaggtct gtgttaatga gatcaacagc agaactccaa tgcgcctctc atacattgag 36120

aaaaagaaag gccgccagac gactcatatc gtattttcct tccgcgatat cacttccatg 36180

acgacaggat agtctgaggg ttatctgtca cagatttgag ggtggttcgt cacatttgtt 36240

ctgacctact gagggtaatt tgtcacagtt ttgctgtttc cttcagcctg catggatttt 36300

ctcatacttt ttgaactgta atttttaagg aagccaaatt tgagggcagt ttgtcacagt 36360

tgatttcctt ctctttccct tcgtcatgtg acctgatatc gggggttagt tcgtcatcat 36420

tgatgagggt tgattatcac agtttattac tctgaattgg ctatccgcgt gtgtacctct 36480

acctggagtt tttcccacgg tggatatttc ttcttgcgct gagcgtaaga gctatctgac 36540

agaacagttc ttctttgctt cctcgccagt tcgctcgcta tgctcggtta cacggctgcg 36600

gcgagcgcta gtgataataa gtgactgagg tatgtgctct tcttatctcc ttttgtagtg 36660

ttgctcttat tttaaacaac tttgcggttt tttgatgact ttgcgatttt gttgttgctt 36720

tgcagtaaat tgcaagattt aataaaaaaa cgcaaagcaa tgattaaagg atgttcagaa 36780

tgaaactcat ggaaacactt aaccagtgca taaacgctgg tcatgaaatg acgaaggcta 36840

tcgccattgc acagtttaat gatgacagcc cggaagcgag gaaaataacc cggcgctgga 36900

gaataggtga agcagcggat ttagttgggg tttcttctca ggctatcaga gatgccgaga 36960

aagcagggcg actaccgcac ccggatatgg aaattcgagg acgggttgag caacgtgttg 37020

gttatacaat tgaacaaatt aatcatatgc gtgatgtgtt tggtacgcga ttgcgacgtg 37080

ctgaagacgt atttccaccg gtgatcgggg ttgctgccca taaaggtggc gtttacaaaa 37140

cctcagtttc tgttcatctt gctcaggatc tggctctgaa ggggctacgt gttttgctcg 37200

tggaaggtaa cgacccccag ggaacagcct caatgtatca cggatgggta ccagatcttc 37260

atattcatgc agaagacact ctcctgcctt tctatcttgg ggaaaaggac gatgtcactt 37320

atgcaataaa gcccacttgc tggccggggc ttgacattat tccttcctgt ctggctctgc 37380

accgtattga aactgagtta atgggcaaat ttgatgaagg taaactgccc accgatccac 37440

acctgatgct ccgactggcc attgaaactg ttgctcatga ctatgatgtc atagttattg 37500

acagcgcgcc taacctgggt atcggcacga ttaatgtcgt atgtgctgct gatgtgctga 37560

ttgttcccac gcctgctgag ttgtttgact acacctccgc actgcagttt ttcgatatgc 37620

ttcgtgatct gctcaagaac gttgatctta aagggttcga gcctgatgta cgtattttgc 37680

ttaccaaata cagcaatagt aatggctctc agtccccgtg gatggaggag caaattcggg 37740

atgcctgggg aagcatggtt ctaaaaaatg ttgtacgtga aacggatgaa gttggtaaag 37800

gtcagatccg gatgagaact gtttttgaac aggccattga tcaacgctct tcaactggtg 37860

cctggagaaa tgctctttct atttgggaac ctgtctgcaa tgaaattttc gatcgtctga 37920

ttaaaccacg ctgggagatt agataatgaa gcgtgcgcct gttattccaa aacatacgct 37980

caatactcaa ccggttgaag atacttcgtt atcgacacca gctgccccga tggtggattc 38040

gttaattgcg cgcgtaggag taatggctcg cggtaatgcc attactttgc ctgtatgtgg 38100

tcgggatgtg aagtttactc ttgaagtgct ccggggtgat agtgttgaga agacctctcg 38160

ggtatggtca ggtaatgaac gtgaccagga gctgcttact gaggacgcac tggatgatct 38220

catcccttct tttctactga ctggtcaaca gacaccggcg ttcggtcgaa gagtatctgg 38280

tgtcatagaa attgccgatg ggagtcgccg tcgtaaagct gctgcactta ccgaaagtga 38340

ttatcgtgtt ctggttggcg agctggatga tgagcagatg gctgcattat ccagattggg 38400

taacgattat cgcccaacaa gtgcttatga acgtggtcag cgttatgcaa gccgattgca 38460

gaatgaattt gctggaaata tttctgcgct ggctgatgcg gaaaatattt cacgtaagat 38520

tattacccgc tgtatcaaca ccgccaaatt gcctaaatca gttgttgctc ttttttctca 38580

ccccggtgaa ctatctgccc ggtcaggtga tgcacttcaa aaagccttta cagataaaga 38640

ggaattactt aagcagcagg catctaacct tcatgagcag aaaaaagctg gggtgatatt 38700

tgaagctgaa gaagttatca ctcttttaac ttctgtgctt aaaacgtcat ctgcatcaag 38760

aactagttta agctcacgac atcagtttgc tcctggagcg acagtattgt ataagggcga 38820

taaaatggtg cttaacctgg acaggtctcg tgttccaact gagtgtatag agaaaattga 38880

ggccattctt aaggaacttg aaaagccagc accctgatgc gaccacgttt tagtctacgt 38940

ttatctgtct ttacttaatg tcctttgtta caggccagaa agcataactg gcctgaatat 39000

tctctctggg cccactgttc cacttgtatc gtcggtctga taatcagact gggaccacgg 39060

tcccactcgt atcgtcggtc tgattattag tctgggacca cggtcccact cgtatcgtcg 39120

gtctgattat tagtctggga ccacggtccc actcgtatcg tcggtctgat aatcagactg 39180

ggaccacggt cccactcgta tcgtcggtct gattattagt ctgggaccat ggtcccactc 39240

gtatcgtcgg tctgattatt agtctgggac cacggtccca ctcgtatcgt cggtctgatt 39300

attagtctgg aaccacggtc ccactcgtat cgtcggtctg attattagtc tgggaccacg 39360

gtcccactcg tatcgtcggt ctgattatta gtctgggacc acgatcccac tcgtgttgtc 39420

ggtctgatta tcggtctggg accacggtcc cacttgtatt gtcgatcaga ctatcagcgt 39480

gagactacga ttccatcaat gcctgtcaag ggcaagtatt gacatgtcgt cgtaacctgt 39540

agaacggagt aacctcggtg tgcggttgta tgcctgctgt ggattgctgc tgtgtcctgc 39600

ttatccacaa cattttgcgc acggttatgt ggacaaaata cctggttacc caggccgtgc 39660

cggcacgtta accgggctgc atccgatgca agtgtgtcgc tgtcgagttt aaacatgcat 39720

ccttaattaa 39730

<210> 5
<211> 42780
<212> DNA
<213> Artificial

<220>
<223> synthetic

<220>
<221> misc_feature
<222> (34052)..(34052)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (36322)..(36323)
<223> n is a, c, g, or t

<400> 5
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60

ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt 120

gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180

gtgtgcgccg gtgtacacag gaagtgacaa ttttcgcgcg gttttaggcg gatgttgtag 240

taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga 300

agtgaaatct gaataatttt gtgttactca tagcgcgtaa actggtaccc ggggatcttg 360

aagttcctat tccgaagttc ctattctcta gaaagtatag gaacttcctt aagtgagtcg 420

tattacggac tggccgtcgt tttacaacgt cgtgactggg aaaaccctgg cgttacccaa 480

cttaatcgcc ttgcagcaca tccccctttc gccagctggc gtaatagcga agaggcccgc 540

accgatcgcc cttcccaaca gttgcgcagc ctgaatggcg aatggcgctt cgcttggtaa 600

gctagctaag gcttaaggag gacaatcatg gcaacagtta accagctggt acgcaaacca 660

cgtgctcgca aagttgcgaa aagcaacgtg cctgcgctgg aagcatgccc gcaaaaacgt 720

ggcgtatgta ctcgtgtata tactaccact cctaaaaaac cgaactccgc gctgcgtaaa 780

gtatgccgtg ttcgtctgtc taacggtttc gaagtgactt cctacatcgg tggtgaaggt 840

cacaacctgc aggagcactc cgtgatcctg atccgtggcg gtcgtgttaa agacctcccg 900

ggtgttcgtt accacaccgt acgtggtgcg cttgactgct ccggcgttaa agaccgtaag 960

caggctcgtt ccaagtatgg cgtgaagcgt cctaaggctt aactagcacg cgccatgtca 1020

gccgttaagt gttcctgtgt cactcaaaat tgctttgaga ggctctaagg gcttctcagt 1080

gcgttacatc cctggcttgt tgtccacaac cgttaaacct taaaagcttt aaaagcctta 1140

tatattcttt tttttcttat aaaacttaaa accttagagg ctatttaagt tgctgattta 1200

tattaatttt attgttcaaa catgagagct tagtacgtga aacatgagag cttagtacgt 1260

tagccatgag agcttagtac gttagccatg agggtttagt tcgttaaaca tgagagctta 1320

gtacgttaaa catgagagct tagtacgtga aacatgagag cttagtacgt actatcaaca 1380

ggttgaactg ctgatcttca gatcctctac gccggacgca tcgtggccgg atccgattta 1440

ttcaacaaag ccacgttgtg tctcaaaatc tctgatgtta cattgcacaa gataaaaata 1500

tatcatcatg aacaataaaa ctgtctgctt acataaacag taatacaagg ggtgttatga 1560

gccatattca acgggaaacg tcttgctcga ggccgcgatt aaattccaac atggatgctg 1620

atttatatgg gtataaatgg gctcgcgata atgtcgggca atcaggtgcg acaatctatc 1680

gattgtatgg gaagcccgat gcgccagagt tgtttctgaa acatggcaaa ggtagcgttg 1740

ccaatgatgt tacagatgag atggtcagac taaactggct gacggaattt atgcctcttc 1800

cgaccatcaa gcattttatc cgtactcctg atgatgcatg gttactcacc actgcgatcc 1860

ccgggaaaac agcattccag gtattagaag aatatcctga ttcaggtgaa aatattgttg 1920

atgcgctggc agtgttcctg cgccggttgc attcgattcc tgtttgtaat tgtcctttta 1980

acagcgatcg cgtatttcgt ctcgctcagg cgcaatcacg aatgaataac ggtttggttg 2040

atgcgagtga ttttgatgac gagcgtaatg gctggcctgt tgaacaagtc tggaaagaaa 2100

tgcataagct tttgccattc tcaccggatt cagtcgtcac tcatggtgat ttctcacttg 2160

ataaccttat ttttgacgag gggaaattaa taggttgtat tgatgttgga cgagtcggaa 2220

tcgcagaccg ataccaggat cttgccatcc tatggaactg cctcggtgag ttttctcctt 2280

cattacagaa acggcttttt caaaaatatg gtattgataa tcctgatatg aataaattgc 2340

agtttcattt gatgctcgat gagtttttct aatcagaatt ggttaattgg ttgtaacact 2400

ggcttaatta acatcatcaa taatatacct tattttggat tgaagccaat atgataatga 2460

gggggtggag tttgtgacgt ggcgcggggc gtgggaacgg ggcgggtgac gtagtagtgt 2520

ggcggaagtg tgatgttgca agtgtggcgg aacacatgta agcgacggat gtggcaaaag 2580

tgacgttttt ggtgtgcgcc ggtgtacaca ggaagtgaca attttcgcgc ggttttaggc 2640

ggatgttgta gtaaatttgg gcgtaaccga gtaagatttg gccattttcg cgggaaaact 2700

gaataagagg aagtgaaatc tgaataattt tgtgttactc atagcgcgta atactggtac 2760

cccccagtgg caagacgcgc aggcaaaacg caccacgact ggatccgaat tcaaaaagcc 2820

ggaactgatc agaaccattc tcttgaaatg gttctgatca gttccggccg gtgtttcgtc 2880

ctttccacaa gatatataaa gccaagaaat cgaaatactt tcaagttacg gtaagcatat 2940

gatagtccat tttaaaacat aattttaaaa ctgcaaacta cccaagaaat tattactttc 3000

tacgtcacgt attttgtact aatatctttg tgtttacagt caaattaatt ctaattatct 3060

ttctaacagc cttgtatcgt atatgcaaat atgaaggaat catgggaaat aggccctctt 3120

cctgcccgac cttggcgcgc gctcggcgcg cggtcacgct ccgtcacgtg gtgcgttttg 3180

cctgcgcgtc ttgccactgg ggggtacccc gaatcactag atctgagctc ggcctggtga 3240

tgatggcggg atcgttgtat atttcttgac acctttttcgg catcgcccta aaattcggcg 3300

tcctcatatt gtgtgaggac gttttattac gtgtttacga agcaaaagct aaaaccagga 3360

gctatttaat ggcaacaacc ggtaccatga ttacgccaag ctacgtaata cgactcacta 3420

gtggaagttc ctattctcta gaaagtatag gaacttcctt aagtgagtcg tattacggac 3480

tggccgtcgt tttacaacgt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc 3540

ttgcagcaca tccccctttc gccagctggc gtaatagcga agaggcccgc accgatcgcc 3600

cttcccaaca gttgcgcagc ctgaatggcg aatggcgctt cgcttggtaa gctagctaag 3660

gcttaaggag gacaatcatg gcaacagtta accagctggt acgcaaacca cgtgctcgca 3720

aagttgcgaa aagcaacgtg cctgcgctgg aagcatgccc gcaaaaacgt ggcgtatgta 3780

ctcgtgtata tactaccact cctaaaaaac cgaactccgc gctgcgtaaa gtatgccgtg 3840

ttcgtctgtc taacggtttc gaagtgactt cctacatcgg tggtgaaggt cacaacctgc 3900

aggagcactc cgtgatcctg atccgtggcg gtcgtgttaa agacctcccg ggtgttcgtt 3960

accacaccgt acgtggtgcg cttgactgct ccggcgttaa agaccgtaag caggctcgtt 4020

ccaagtatgg cgtgaagcgt cctaaggctt aactagcacg cgccatgtca gccgttaagt 4080

gttcctgtgt cactcaaaat tgctttgaga ggctctaagg gcttctcagt gcgttacatc 4140

cctggcttgt tgtccacaac cgttaaacct taaaagcttt aaaagcctta tatattcttt 4200

tttttcttat aaaacttaaa accttagagg ctatttaagt tgctgattta tattaatttt 4260

attgttcaaa catgagagct tagtacgtga aacatgagag cttagtacgt tagccatgag 4320

agcttagtac gttagccatg agggtttagt tcgttaaaca tgagagctta gtacgttaaa 4380

catgagagct tagtacgtga aacatgagag cttagtacgt actatcaaca ggttgaactg 4440

ctgatcttca gatcctctac gccggacgca tcgtggccgg atccgattta ttcaacaaag 4500

ccacgttgtg tctcaaaatc tctgatgtta cattgcacaa gataaaaata tatcatcatg 4560

aacaataaaa ctgtctgctt acataaacag taatacaagg ggtgttatga gccatattca 4620

acgggaaacg tcttgctcga ggccgcgatt aaattccaac atggatgctg atttatatgg 4680

gtataaatgg gctcgcgata atgtcgggca atcaggtgcg acaatctatc gattgtatgg 4740

gaagcccgat gcgccagagt tgtttctgaa acatggcaaa ggtagcgttg ccaatgatgt 4800

tacagatgag atggtcagac taaactggct gacggaattt atgcctcttc cgaccatcaa 4860

gcattttatc cgtactcctg atgatgcatg gttactcacc actgcgatcc ccgggaaaac 4920

agcattccag gtattagaag aatatcctga ttcaggtgaa aatattgttg atgcgctggc 4980

agtgttcctg cgccggttgc attcgattcc tgtttgtaat tgtcctttta acagcgatcg 5040

cgtatttcgt ctcgctcagg cgcaatcacg aatgaataac ggtttggttg atgcgagtga 5100

ttttgatgac gagcgtaatg gctggcctgt tgaacaagtc tggaaagaaa tgcataagct 5160

tttgccattc tcaccggatt cagtcgtcac tcatggtgat ttctcacttg ataaccttat 5220

ttttgacgag gggaaattaa taggttgtat tgatgttgga cgagtcggaa tcgcagaccg 5280

ataccaggat cttgccatcc tatggaactg cctcggtgag ttttctcctt cattacagaa 5340

acggcttttt caaaaatatg gtattgataa tcctgatatg aataaattgc agtttcattt 5400

gatgctcgat gagtttttct aatcagaatt ggttaattgg ttgtaacact ggcttaatta 5460

acatcatcaa taatatacct tattttggat tgaagccaat atgataatga gggggtggag 5520

tttgtgacgt ggcgcggggc gtgggaacgg ggcgggtgac gtagtagtgt ggcggaagtg 5580

tgatgttgca agtgtggcgg aacacatgta agcgacggat gtggcaaaag tgacgttttt 5640

ggtgtgcgcc ggtgtacaca ggaagtgaca attttcgcgc ggttttaggc ggatgttgta 5700

gtaaatttgg gcgtaaccga gtaagatttg gccattttcg cgggaaaact gaataagagg 5760

aagtgaaatc tgaataattt tgtgttactc atagcgcgta atactggtac cccccagtgg 5820

caagacgcgc aggcaaaacg caccacgact ggatccgaat tcaaaaagcc ggaactgatc 5880

agaaccattc tcttgaaatg gttctgatca gttccggccg gtgtttcgtc ctttccacaa 5940

gatatataaa gccaagaaat cgaaatactt tcaagttacg gtaagcatat gatagtccat 6000

tttaaaacat aattttaaaa ctgcaaacta cccaagaaat tattactttc tacgtcacgt 6060

attttgtact aatatctttg tgtttacagt caaattaatt ctaattatct ttctaacagc 6120

cttgtatcgt atatgcaaat atgaaggaat catgggaaat aggccctctt cctgcccgac 6180

cttggcgcgc gctcggcgcg cggtcacgct ccgtcacgtg gtgcgttttg cctgcgcgtc 6240

ttgccactgg ggggtacccc gaatcactag atctgagctc ggcctggtga tgatggcggg 6300

atcgttgtat atttcttgac acctttttcgg catcgcccta aaattcggcg tcctcatatt 6360

gtgtgaggac gttttattac gtgtttacga agcaaaagct aaaaccagga gctatttaat 6420

ggcaacaacc ggtaccatga ttacgccaag ctacgtaata cgactcacta gtggaagttc 6480

ctattctcta gaaagtatag gaacttcaag agcgcttttg agcttgttta tcgaattcaa 6540

gcttgtcgac tcgaagatct gggcgtggtt aagggtggga aagaatatat aaggtggggg 6600

tcttatgtag ttttgtatct gttttgcagc agccgccgcc gccatgagca ccaactcgtt 6660

tgatggaagc attgtgagct catatttgac aacgcgcatg cccccatggg ccggggtgcg 6720

tcagaatgtg atgggctcca gcattgatgg tcgccccgtc ctgcccgcaa actctactac 6780

cttgacctac gagaccgtgt ctggaacgcc gttggagact gcagcctccg ccgccgcttc 6840

agccgctgca gccaccgccc gcgggattgt gactgacttt gctttcctga gcccgcttgc 6900

aagcagtgca gcttcccgtt catccgcccg cgatgacaag ttgacggctc ttttggcaca 6960

attggattct ttgacccggg aacttaatgt cgtttctcag cagctgttgg atctgcgcca 7020

gcaggtttct gccctgaagg cttcctcccc tcccaatgcg gtttaaaaca taaataaaaa 7080

accagactct gtttggattt ggatcaagca agtgtcttgc tgtctttatt taggggtttt 7140

gcgcgcgcgg taggcccggg accagcggtc tcggtcgttg agggtcctgt gtatttttc 7200

caggacgtgg taaaggtgac tctggatgtt cagatacatg ggcataagcc cgtctctggg 7260

gtggaggtag caccactgca gagcttcatg ctgcggggtg gtgttgtaga tgatccagtc 7320

gtagcaggag cgctgggcgt ggtgcctaaa aatgtctttc agtagcaagc tgattgccag 7380

gggcaggccc ttggtgtaag tgtttacaaa gcggttaagc tgggatgggt gcatacgtgg 7440

ggatatgaga tgcatcttgg actgtatttt taggttggct atgttcccag ccatatccct 7500

ccggggattc atgttgtgca gaaccaccag cacagtgtat ccggtgcact tgggaaattt 7560

gtcatgtagc ttagaaggaa atgcgtggaa gaacttggag acgcccttgt gacctccaag 7620

attttccatg cattcgtcca taatgatggc aatgggccca cgggcggcgg cctgggcgaa 7680

gatatttctg ggatcactaa cgtcatagtt gtgttccagg atgagatcgt cataggccat 7740

ttttacaaag cgcgggcgga gggtgccaga ctgcggtata atggttccat ccggcccagg 7800

ggcgtagtta ccctcacaga tttgcatttc ccacgctttg agttcagatg gggggatcat 7860

gtctacctgc ggggcgatga agaaaacggt ttccggggta ggggagatca gctgggaaga 7920

aagcaggttc ctgagcagct gcgacttacc gcagccggtg ggcccgtaaa tcacacctat 7980

taccgggtgc aactggtagt taagagagct gcagctgccg tcatccctga gcagggggc 8040

cacttcgtta agcatgtccc tgactcgcat gttttccctg accaaatccg ccagaaggcg 8100

ctcgccgccc agcgatagca gttcttgcaa ggaagcaaag tttttcaacg gtttgagacc 8160

gtccgccgta ggcatgcttt tgagcgtttg accaagcagt tccaggcggt cccacagctc 8220

ggtcacctgc tctacggcat ctcgatccag catatctcct cgtttcgcgg gttggggcgg 8280

ctttcgctgt acggcagtag tcggtgctcg tccagacggg ccagggtcat gtctttccac 8340

gggcgcaggg tcctcgtcag cgtagtctgg gtcacggtga aggggtgcgc tccgggctgc 8400

gcgctggcca gggtgcgctt gaggctggtc ctgctggtgc tgaagcgctg ccggtcttcg 8460

ccctgcgcgt cggccaggta gcatttgacc atggtgtcat agtccagccc ctccgcggcg 8520

tggcccttgg cgcgcagctt gcccttggag gaggcgccgc acgaggggca gtgcagactt 8580

ttgagggcgt agagcttggg cgcgagaaat accgattccg gggagtaggc atccgcgccg 8640

caggccccgc agacggtctc gcattccacg agccaggtga gctctggccg ttcggggtca 8700

aaaaccaggt ttcccccatg ctttttgatg cgtttcttac ctctggtttc catgagccgg 8760

tgtccacgct cggtgacgaa aaggctgtcc gtgtccccgt atacagactt gagaggcctg 8820

tcctcgagcg gtgttccgcg gtcctcctcg tatagaaact cggaccactc tgagacaaag 8880

gctcgcgtcc aggccagcac gaaggaggct aagtgggagg ggtagcggtc gttgtccact 8940

agggggtcca ctcgctccag ggtgtgaaga cacatgtcgc cctcttcggc atcaaggaag 9000

gtgattggtt tgtaggtgta ggccacgtga ccgggtgttc ctgaaggggg gctataaaag 9060

ggggtggggg cgcgttcgtc ctcactctct tccgcatcgc tgtctgcgag ggccagctgt 9120

tggggtgagt actccctctg aaaagcgggc atgacttctg cgctaagatt gtcagtttcc 9180

aaaaacgagg aggatttgat attcacctgg cccgcggtga tgcctttgag ggtggccgca 9240

tccatctggt cagaaaagac aatctttttg ttgtcaagct tggtggcaaa cgacccgtag 9300

agggcgttgg acagcaactt ggcgatggag cgcagggttt ggtttttgtc gcgatcggcg 9360

cgctccttgg ccgcgatgtt tagctgcacg tattcgcgcg caacgcaccg ccattcggga 9420

aagacggtgg tgcgctcgtc gggcaccagg tgcacgcgcc aaccgcggtt gtgcagggtg 9480

acaaggtcaa cgctggtggc tacctctccg cgtaggcgct cgttggtcca gcagaggcgg 9540

ccgcccttgc gcgagcagaa tggcggtagg gggtctagct gcgtctcgtc cgggggggtct 9600

gcgtccacgg taaagacccc gggcagcagg cgcgcgtcga agtagtctat cttgcatcct 9660

tgcaagtcta gcgcctgctg ccatgcgcgg gcggcaagcg cgcgctcgta tgggttgagt 9720

gggggacccc atggcatggg gtgggtgagc gcggaggcgt acatgccgca aatgtcgtaa 9780

acgtagaggg gctctctgag tattccaaga tatgtagggt agcatcttcc accgcggatg 9840

ctggcgcgca cgtaatcgta tagttcgtgc gagggagcga ggaggtcggg accgaggttg 9900

ctacgggcgg gctgctctgc tcggaagact atctgcctga agatggcatg tgagttggat 9960

gatatggttg gacgctggaa gacgttgaag ctggcgtctg tgagacctac cgcgtcacgc 10020

acgaaggagg cgtaggagtc gcgcagcttg ttgaccagct cggcggtgac ctgcacgtct 10080

agggcgcagt agtccagggt ttccttgatg atgtcatact tatcctgtcc ctttttttc 10140

cacagctcgc ggttgaggac aaactcttcg cggtctttcc agtactcttg gatcggaaac 10200

ccgtcggcct ccgaacggta agagcctagc atgtagaact ggttgacggc ctggtaggcg 10260

cagcatccct tttctacggg tagcgcgtat gcctgcgcgg ccttccggag cgaggtgtgg 10320

gtgagcgcaa aggtgtccct gaccatgact ttgaggtact ggtatttgaa gtcagtgtcg 10380

tcgcatccgc cctgctccca gagcaaaaag tccgtgcgct ttttggaacg cggatttggc 10440

agggcgaagg tgacatcgtt gaagagtatc tttcccgcgc gaggcataaa gttgcgtgtg 10500

atgcggaagg gtcccggcac ctcggaacgg ttgttaatta cctgggcggc gagcacgatc 10560

tcgtcaaagc cgttgatgtt gtggcccaca atgtaaagtt ccaagaagcg cgggatgccc 10620

ttgatggaag gcaatttttt aagttcctcg taggtgagct cttcagggga gctgagcccg 10680

tgctctgaaa gggcccagtc tgcaagatga gggttggaag cgacgaatga gctccacagg 10740

tcacgggcca ttagcatttg caggtggtcg cgaaaggtcc taaactggcg acctatggcc 10800

atttttctg gggtgatgca gtagaaggta agcgggtctt gttcccagcg gtcccatcca 10860

aggttcgcgg ctaggtctcg cgcggcagtc actagaggct catctccgcc gaacttcatg 10920

accagcatga agggcacgag ctgcttccca aaggccccca tccaagtata ggtctctaca 10980

tcgtaggtga caaagagacg ctcggtgcga ggatgcgagc cgatcgggaa gaactggatc 11040

tcccgccacc aattggagga gtggctattg atgtggtgaa agtagaagtc cctgcgacgg 11100

gccgaacact cgtgctggct tttgtaaaaa cgtgcgcagt actggcagcg gtgcacgggc 11160

tgtacatcct gcacgaggtt gacctgacga ccgcgcacaa ggaagcagag tgggaatttg 11220

agcccctcgc ctggcgggtt tggctggtgg tcttctactt cggctgcttg tccttgaccg 11280

tctggctgct cgaggggagt tacggtggat cggaccacca cgccgcgcga gcccaaagtc 11340

cagatgtccg cgcgcggcgg tcggagcttg atgacaacat cgcgcagatg ggagctgtcc 11400

atggtctgga gctcccgcgg cgtcaggtca ggcgggagct cctgcaggtt tacctcgcat 11460

agacgggtca gggcgcgggc tagatccagg tgatacctaa tttccagggg ctggttggtg 11520

gcggcgtcga tggcttgcaa gaggccgcat ccccgcggcg cgactacggt accgcgcggc 11580

gggcggtggg ccgcgggggt gtccttggat gatgcatcta aaagcggtga cgcgggcgag 11640

ccccccggagg taggggggggc tccggacccg ccgggagagg gggcaggggc acgtcggcgc 11700

cgcgcgcggg caggagctgg tgctgcgcgc gtaggttgct ggcgaacgcg acgacgcggc 11760

ggttgatctc ctgaatctgg cgcctctgcg tgaagacgac gggcccggtg agcttgagcc 11820

tgaaagagag ttcgacagaa tcaatttcgg tgtcgttgac ggcggcctgg cgcaaaatct 11880

cctgcacgtc tcctgagttg tcttgatagg cgatctcggc catgaactgc tcgatctctt 11940

cctcctggag atctccgcgt ccggctcgct ccacggtggc ggcgaggtcg ttggaaatgc 12000

gggccatgag ctgcgagaag gcgttgaggc ctccctcgtt ccagacgcgg ctgtagacca 12060

cgcccccttc ggcatcgcgg gcgcgcatga ccacctgcgc gagattgagc tccacgtgcc 12120

gggcgaagac ggcgtagttt cgcaggcgct gaaagaggta gttgagggtg gtggcggtgt 12180

gttctgccac gaagaagtac ataacccagc gtcgcaacgt ggattcgttg atatccccca 12240

aggcctcaag gcgctccatg gcctcgtaga agtccacggc gaagttgaaa aactgggagt 12300

tgcgcgccga cacggttaac tcctcctcca gaagacggat gagctcggcg acagtgtcgc 12360

gcacctcgcg ctcaaaggct acaggggcct cttcttcttc ttcaatctcc tcttccataa 12420

gggcctcccc ttcttcttct tctggcggcg gtgggggagg ggggacacgg cggcgacgac 12480

ggcgcaccgg gaggcggtcg acaaagcgct cgatcatctc cccgcggcga cggcgcatgg 12540

tctcggtgac ggcgcggccg ttctcgcggg ggcgcagttg gaagacgccg cccgtcatgt 12600

cccggttatg ggttggcggg gggctgccat gcggcaggga tacggcgcta acgatgcatc 12660

tcaacaattg ttgtgtaggt actccgccgc cgagggacct gagcgagtcc gcatcgaccg 12720

gatcggaaaa cctctcgaga aaggcgtcta accagtcaca gtcgcaaggt aggctgagca 12780

ccgtggcggg cggcagcggg cggcggtcgg ggttgtttct ggcggaggtg ctgctgatga 12840

tgtaattaaa gtaggcggtc ttgagacggc ggatggtcga cagaagcacc atgtccttgg 12900

gtccggcctg ctgaatgcgc aggcggtcgg ccatgcccca ggcttcgttt tgacatcggc 12960

gcaggtcttt gtagtagtct tgcatgagcc tttctaccgg cacttcttct tctccttcct 13020

cttgtcctgc atctcttgca tctatcgctg cggcggcggc ggagtttggc cgtaggtggc 13080

gccctcttcc tcccatgcgt gtgaccccga agcccctcat cggctgaagc agggctaggt 13140

cggcgacaac gcgctcggct aatatggcct gctgcacctg cgtgagggta gactggaagt 13200

catccatgtc cacaaagcgg tggtatgcgc ccgtgttgat ggtgtaagtg cagttggcca 13260

taacggacca gttaacggtc tggtgacccg gctgcgagag ctcggtgtac ctgagacgcg 13320

agtaagccct cgagtcaaat acgtagtcgt tgcaagtccg caccaggtac tggtatccca 13380

ccaaaaagtg cggcggcggc tggcggtaga ggggccagcg tagggtggcc ggggctccgg 13440

gggcgagatc ttccaacata aggcgatgat atccgtagat gtacctggac atccaggtga 13500

tgccggcggc ggtggtggag gcgcgcggaa agtcgcggac gcggttccag atgttgcgca 13560

gcggcaaaaa gtgctccatg gtcgggacgc tctggccggt caggcgcgcg caatcgttga 13620

cgctctaccg tgcaaaagga gagcctgtaa gcgggcactc ttccgtggtc tggtggataa 13680

attcgcaagg gtatcatggc ggacgaccgg ggttcgagcc ccgtatccgg ccgtccgccg 13740

tgatccatgc ggttaccgcc cgcgtgtcga acccaggtgt gcgacgtcag acaacggggg 13800

agtgctcctt ttggcttcct tccaggcgcg gcggctgctg cgctagcttt tttggccact 13860

ggccgcgcgc agcgtaagcg gttaggctgg aaagcgaaag cattaagtgg ctcgctccct 13920

gtagccggag ggttattttc caagggttga gtcgcgggac ccccggttcg agtctcggac 13980

cggccggact gcggcgaacg ggggtttgcc tccccgtcat gcaagacccc gcttgcaaat 14040

tcctccggaa acagggacga gccccttttt tgcttttccc agatgcatcc ggtgctgcgg 14100

cagatgcgcc cccctcctca gcagcggcaa gagcaagagc agcggcagac atgcagggca 14160

ccctcccctc ctcctaccgc gtcaggaggg gcgacatccg cggttgacgc ggcagcagat 14220

ggtgattacg aacccccgcg gcgccgggcc cggcactacc tggacttgga ggagggcgag 14280

ggcctggcgc ggctaggagc gccctctcct gagcggtacc caagggtgca gctgaagcgt 14340

gatacgcgtg aggcgtacgt gccgcggcag aacctgtttc gcgaccgcga gggagaggag 14400

cccgaggaga tgcgggatcg aaagttccac gcagggcgcg agctgcggca tggcctgaat 14460

cgcgagcggt tgctgcgcga ggaggacttt gagcccgacg cgcgaaccgg gattagtccc 14520

gcgcgcgcac acgtggcggc cgccgacctg gtaaccgcat acgagcagac ggtgaaccag 14580

gagattaact ttcaaaaaag ctttaacaac cacgtgcgta cgcttgtggc gcgcgaggag 14640

gtggctatag gactgatgca tctgtgggac tttgtaagcg cgctggagca aaacccaaat 14700

agcaagccgc tcatggcgca gctgttcctt atagtgcagc acagcaggga caacgaggca 14760

ttcagggatg cgctgctaaa catagtagag cccgagggcc gctggctgct cgatttgata 14820

aacatcctgc agagcatagt ggtgcaggag cgcagcttga gcctggctga caaggtggcc 14880

gccatcaact attccatgct tagcctgggc aagttttacg cccgcaagat ataccatacc 14940

ccttacgttc ccatagacaa ggaggtaaag atcgaggggt tctacatgcg catggcgctg 15000

aaggtgctta ccttgagcga cgacctgggc gtttatcgca acgagcgcat ccacaaggcc 15060

gtgagcgtga gccggcggcg cgagctcagc gaccgcgagc tgatgcacag cctgcaaagg 15120

gccctggctg gcacgggcag cggcgataga gaggccgagt cctactttga cgcgggcgct 15180

gacctgcgct gggccccaag ccgacgcgcc ctggaggcag ctggggccgg acctgggctg 15240

gcggtggcac ccgcgcgcgc tggcaacgtc ggcggcgtgg aggaatatga cgaggacgat 15300

gagtacgagc cagaggacgg cgagtactaa gcggtgatgt ttctgatcag atgatgcaag 15360

acgcaacgga cccggcggtg cgggcggcgc tgcagagcca gccgtccggc cttaactcca 15420

cggacgactg gcgccaggtc atggaccgca tcatgtcgct gactgcgcgc aatcctgacg 15480

cgttccggca gcagccgcag gccaaccggc tctccgcaat tctggaagcg gtggtcccgg 15540

cgcgcgcaaa ccccacgcac gagaaggtgc tggcgatcgt aaacgcgctg gccgaaaaca 15600

gggccatccg gcccgacgag gccggcctgg tctacgacgc gctgcttcag cgcgtggctc 15660

gttacaacag cggcaacgtg cagaccaacc tggaccggct ggtgggggat gtgcgcgagg 15720

ccgtggcgca gcgtgagcgc gcgcagcagc agggcaacct gggctccatg gttgcactaa 15780

acgccttcct gagtacacag cccgccaacg tgccgcgggg acaggaggac tacaccaact 15840

ttgtgagcgc actgcggcta atggtgactg agacaccgca aagtgaggtg taccagtctg 15900

ggccagacta ttttttccag accagtagac aaggcctgca gaccgtaaac ctgagccagg 15960

ctttcaaaaa cttgcagggg ctgtgggggg tgcgggctcc cacaggcgac cgcgcgaccg 16020

tgtctagctt gctgacgccc aactcgcgcc tgttgctgct gctaatagcg cccttcacgg 16080

acagtggcag cgtgtcccgg gacacatacc taggtcactt gctgacactg taccgcgagg 16140

ccataggtca ggcgcatgtg gacgagcata ctttccagga gattacaagt gtcagccgcg 16200

cgctggggca ggaggacacg ggcagcctgg aggcaaccct aaactacctg ctgaccaacc 16260

ggcggcagaa gatcccctcg ttgcacagtt taaacagcga ggaggagcgc attttgcgct 16320

acgtgcagca gagcgtgagc cttaacctga tgcgcgacgg ggtaacgccc agcgtggcgc 16380

tggacatgac cgcgcgcaac atggaaccgg gcatgtatgc ctcaaaccgg ccgtttatca 16440

accgcctaat ggactacttg catcgcgcgg ccgccgtgaa ccccgagtat ttcaccaatg 16500

ccatcttgaa cccgcactgg ctaccgcccc ctggtttcta caccgggggga ttcgaggtgc 16560

ccgagggtaa cgatggattc ctctgggacg acatagacga cagcgtgttt tccccgcaac 16620

cgcagaccct gctagagttg caacagcgcg agcaggcaga ggcggcgctg cgaaaggaaa 16680

gcttccgcag gccaagcagc ttgtccgatc taggcgctgc ggccccgcgg tcagatgcta 16740

gtagcccatt tccaagcttg atagggtctc ttaccagcac tcgcaccacc cgcccgcgcc 16800

tgctgggcga ggaggagtac ctaaacaact cgctgctgca gccgcagcgc gaaaaaaacc 16860

tgcctccggc atttcccaac aacgggatag agagcctagt ggacaagatg agtagatgga 16920

agacgtacgc gcaggagcac agggacgtgc caggcccgcg cccgcccacc cgtcgtcaaa 16980

ggcacgaccg tcagcggggt ctggtgtggg aggacgatga ctcggcagac gacagcagcg 17040

tcctggattt gggagggagt ggcaacccgt ttgcgcacct tcgccccagg ctggggagaa 17100

tgttttaaaa aaaaaaaagc atgatgcaaa ataaaaaact caccaaggcc atggcaccga 17160

gcgttggttt tcttgtattc cccttagtat gcggcgcgcg gcgatgtatg aggaaggtcc 17220

tcctccctcc tacgagagtg tggtgagcgc ggcgccagtg gcggcggcgc tgggttctcc 17280

cttcgatgct cccctggacc cgccgtttgt gcctccgcgg tacctgcggc ctaccggggg 17340

gagaaacagc atccgttact ctgagttggc acccctattc gacaccaccc gtgtgtacct 17400

ggtggacaac aagtcaacgg atgtggcatc cctgaactac cagaacgacc acagcaactt 17460

tctgaccacg gtcattcaaa acaatgacta cagcccgggg gaggcaagca cacagaccat 17520

caatcttgac gaccggtcgc actggggcgg cgacctgaaa accatcctgc ataccaacat 17580

gccaaatgtg aacgagttca tgtttaccaa taagtttaag gcgcgggtga tggtgtcgcg 17640

cttgcctact aaggacaatc aggtggagct gaaatacgag tgggtggagt tcacgctgcc 17700

cgagggcaac tactccgaga ccatgaccat agaccttatg aacaacgcga tcgtggagca 17760

ctacttgaaa gtgggcagac agaacggggt tctggaaagc gacatcgggg taaagtttga 17820

cacccgcaac ttcagactgg ggtttgaccc cgtcactggt cttgtcatgc ctggggtata 17880

tacaaacgaa gccttccatc cagacatcat tttgctgcca ggatgcgggg tggacttcac 17940

ccacagccgc ctgagcaact tgttgggcat ccgcaagcgg caacccttcc aggagggctt 18000

taggatcacc tacgatgatc tggagggtgg taacattccc gcactgttgg atgtggacgc 18060

ctaccaggcg agcttgaaag atgacaccga acagggcggg ggtggcgcag gcggcagcaa 18120

cagcagtggc agcggcgcgg aagagaactc caacgcggca gccgcggcaa tgcagccggt 18180

ggaggacatg aacgatcatg ccattcgcgg cgacaccttt gccacacggg ctgaggagaa 18240

gcgcgctgag gccgaagcag cggccgaagc tgccgccccc gctgcgcaac ccgaggtcga 18300

gaagcctcag aagaaaccgg tgatcaaacc cctgacagag gacagcaaga aacgcagtta 18360

caacctaata agcaatgaca gcaccttcac ccagtaccgc agctggtacc ttgcatacaa 18420

ctacggcgac cctcagaccg gaatccgctc atggaccctg ctttgcactc ctgacgtaac 18480

ctgcggctcg gagcaggtct actggtcgtt gccagacatg atgcaagacc ccgtgacctt 18540

ccgctccacg cgccagatca gcaactttcc ggtggtgggc gccgagctgt tgcccgtgca 18600

ctccaagagc ttctacaacg accaggccgt ctactcccaa ctcatccgcc agtttacctc 18660

tctgacccac gtgttcaatc gctttcccga gaaccagatt ttggcgcgcc cgccagcccc 18720

caccatcacc accgtcagtg aaaacgttcc tgctctcaca gatcacggga cgctaccgct 18780

gcgcaacagc atcggaggag tccagcgagt gaccattact gacgccagac gccgcacctg 18840

ccctacgtt tacaaggccc tgggcatagt ctcgccgcgc gtcctatcga gccgcacttt 18900

ttgagcaagc atgtccatcc ttatatcgcc cagcaataac acaggctggg gcctgcgctt 18960

cccaagcaag atgtttggcg gggccaagaa gcgctccgac caacacccag tgcgcgtgcg 19020

cgggcactac cgcgcgccct ggggcgcgca caaacgcggc cgcactgggc gcaccaccgt 19080

cgatgacgcc atcgacgcgg tggtggagga ggcgcgcaac tacacgccca cgccgccacc 19140

agtgtccaca gtggacgcgg ccattcagac cgtggtgcgc ggagcccggc gctatgctaa 19200

aatgaagaga cggcggaggc gcgtagcacg tcgccaccgc cgccgacccg gcactgccgc 19260

ccaacgcgcg gcggcggccc tgcttaaccg cgcacgtcgc accggccgac gggcggccat 19320

gcgggccgct cgaaggctgg ccgcgggtat tgtcactgtg ccccccaggt ccaggcgacg 19380

agcggccgcc gcagcagccg cggccattag tgctatgact cagggtcgca ggggcaacgt 19440

gtattgggtg cgcgactcgg ttagcggcct gcgcgtgccc gtgcgcaccc gccccccgcg 19500

caactagatt gcaagaaaaa actacttaga ctcgtactgt tgtatgtatc cagcggcggc 19560

ggcgcgcaac gaagctatgt ccaagcgcaa aatcaaagaa gagatgctcc aggtcatcgc 19620

gccggagatc tatggccccc cgaagaagga agagcaggat tacaagcccc gaaagctaaa 19680

gcgggtcaaa aagaaaaaga aagatgatga tgatgaactt gacgacgagg tggaactgct 19740

gcacgctacc gcgcccaggc gacgggtaca gtggaaaggt cgacgcgtaa aacgtgtttt 19800

gcgacccggc accaccgtag tctttacgcc cggtgagcgc tccacccgca cctacaagcg 19860

cgtgtatgat gaggtgtacg gcgacgagga cctgcttgag caggccaacg agcgcctcgg 19920

ggagtttgcc tacggaaagc ggcataagga catgctggcg ttgccgctgg acgagggcaa 19980

cccaacacct agcctaaagc ccgtaacact gcagcaggtg ctgcccgcgc ttgcaccgtc 20040

cgaagaaaag cgcggcctaa agcgcgagtc tggtgacttg gcacccaccg tgcagctgat 20100

ggtacccaag cgccagcgac tggaagatgt cttggaaaaa atgaccgtgg aacctgggct 20160

ggagcccgag gtccgcgtgc ggccaatcaa gcaggtggcg ccgggactgg gcgtgcagac 20220

cgtggacgtt cagataccca ctaccagtag caccagtatt gccaccgcca cagagggcat 20280

ggagacacaa acgtccccgg ttgcctcagc ggtggcggat gccgcggtgc aggcggtcgc 20340

tgcggccgcg tccaagacct ctacggaggt gcaaacggac ccgtggatgt ttcgcgtttc 20400

agcccccccgg cgcccgcgcg gttcgaggaa gtacggcgcc gccagcgcgc tactgcccga 20460

atatgcccta catccttcca ttgcgcctac ccccggctat cgtggctaca cctaccgccc 20520

cagaagacga gcaactaccc gacgccgaac caccactgga acccgccgcc gccgtcgccg 20580

tcgccagccc gtgctggccc cgatttccgt gcgcagggtg gctcgcgaag gaggcaggac 20640

cctggtgctg ccaacagcgc gctaccaccc cagcatcgtt taaaagccgg tctttgtggt 20700

tcttgcagat atggccctca cctgccgcct ccgtttcccg gtgccgggat tccgaggaag 20760

aatgcaccgt aggaggggca tggccggcca cggcctgacg ggcggcatgc gtcgtgcgca 20820

ccaccggcgg cggcgcgcgt cgcaccgtcg catgcgcggc ggtatcctgc ccctccttat 20880

tccactgatc gccgcggcga ttggcgccgt gcccggaatt gcatccgtgg ccttgcaggc 20940

gcagagacac tgattaaaaa caagttgcat gtggaaaaat caaaataaaa agtctggact 21000

ctcacgctcg cttggtcctg taactatttt gtagaatgga agacatcaac tttgcgtctc 21060

tggccccgcg acacggctcg cgcccgttca tgggaaactg gcaagatatc ggcaccagca 21120

atatgagcgg tggcgccttc agctggggct cgctgtggag cggcattaaa aatttcggtt 21180

ccaccgttaa gaactatggc agcaaggcct ggaacagcag cacaggccag atgctgaggg 21240

ataagttgaa agagcaaaat ttccaacaaa aggtggtaga tggcctggcc tctggcatta 21300

gcggggtggt ggacctggcc aaccaggcag tgcaaaataa gattaacagt aagcttgatc 21360

cccgccctcc cgtagaggag cctccaccgg ccgtggagac agtgtctcca gaggggcgtg 21420

gcgaaaagcg tccgcgcccc gacagggaag aaactctggt gacgcaaata gacgagcctc 21480

cctcgtacga ggaggcacta aagcaaggcc tgcccaccac ccgtcccatc gcgcccatgg 21540

ctaccggagt gctgggccag cacacacccg taacgctgga cctgcctccc cccgccgaca 21600

cccagcagaa acctgtgctg ccaggcccga ccgccgttgt tgtaacccgt cctagccgcg 21660

cgtccctgcg ccgcgccgcc agcggtccgc gatcgttgcg gcccgtagcc agtggcaact 21720

ggcaaagcac actgaacagc atcgtgggtc tgggggtgca atccctgaag cgccgacgat 21780

gcttctgaat agctaacgtg tcgtatgtgt gtcatgtatg cgtccatgtc gccgccagag 21840

gagctgctga gccgccgcgc gcccgctttc caagatggct acccccttcga tgatgccgca 21900

gtggtcttac atgcacatct cgggccagga cgcctcggag tacctgagcc ccgggctggt 21960

gcagtttgcc cgcgccaccg agacgtactt cagcctgaat aacaagttta gaaaccccac 22020

ggtggcgcct acgcacgacg tgaccacaga ccggtcccag cgtttgacgc tgcggttcat 22080

ccctgtggac cgtgaggata ctgcgtactc gtacaaggcg cggttcaccc tagctgtggg 22140

tgataaccgt gtgctggaca tggcttccac gtactttgac atccgcggcg tgctggacag 22200

gggccctact tttaagccct actctggcac tgcctacaac gccctggctc ccaagggtgc 22260

cccaaatcct tgcgaatggg atgaagctgc tactgctctt gaaataaacc tagaagaaga 22320

ggacgatgac aacgaagacg aagtagacga gcaagctgag cagcaaaaaa ctcacgtatt 22380

tgggcaggcg ccttattctg gtataaatat tacaaaggag ggtattcaaa taggtgtcga 22440

aggtcaaaca cctaaatatg ccgataaaac atttcaacct gaacctcaaa taggagaatc 22500

tcagtggtac gaaactgaaa ttaatcatgc agctgggaga gtccttaaaa agactacccc 22560

aatgaaacca tgttacggtt catatgcaaa acccacaaat gaaaatggag ggcaaggcat 22620

tcttgtaaag caacaaaatg gaaagctaga aagtcaagtg gaaatgcaat ttttctcaac 22680

tactgaggcg accgcaggca atggtgataa cttgactcct aaagtggtat tgtacagtga 22740

agatgtagat atagaaaccc cagacactca tatttcttac atgcccacta ttaaggaagg 22800

taactcacga gaactaatgg gccaacaatc tatgcccaac aggcctaatt acattgcttt 22860

tagggacaat tttattggtc taatgtatta caacagcacg ggtaatatgg gtgttctggc 22920

gggccaagca tcgcagttga atgctgttgt agatttgcaa gacagaaaca cagagctttc 22980

ataccagctt ttgcttgatt ccattggtga tagaaccagg tacttttcta tgtggaatca 23040

ggctgttgac agctatgatc cagatgttag aattattgaa aatcatggaa ctgaagatga 23100

acttccaaat tactgctttc cactgggagg tgtgattaat acagagactc ttaccaaggt 23160

aaaacctaaa acaggtcagg aaaatggatg ggaaaaagat gctacagaat tttcagataa 23220

aaatgaaata agagttggaa ataattttgc catggaaatc aatctaaatg ccaacctgtg 23280

gagaaatttc ctgtactcca acatagcgct gtatttgccc gacaagctaa agtacagtcc 23340

ttccaacgta aaaatttctg ataacccaaa cacctacgac tacatgaaca agcgagtggt 23400

ggctcccggg ttagtggact gctacattaa ccttggagca cgctggtccc ttgactatat 23460

ggacaacgtc aacccattta accaccaccg caatgctggc ctgcgctacc gctcaatgtt 23520

gctgggcaat ggtcgctatg tgcccttcca catccaggtg cctcagaagt tctttgccat 23580

taaaaacctc cttctcctgc cgggctcata cacctacgag tggaacttca ggaaggatgt 23640

taacatggtt ctgcagagct ccctaggaaa tgacctaagg gttgacggag ccagcattaa 23700

gtttgatagc atttgccttt acgccacctt cttccccatg gcccacaaca ccgcctccac 23760

gcttgaggcc atgcttagaa acgacaccaa cgaccagtcc tttaacgact atctctccgc 23820

cgccaacatg ctctacccta tacccgccaa cgctaccaac gtgcccatat ccatcccctc 23880

ccgcaactgg gcggctttcc gcggctgggc cttcacgcgc cttaagacta aggaaacccc 23940

atcactgggc tcgggctacg acccttatta cacctactct ggctctatac cctacctaga 24000

tggaaccttt tacctcaacc acacctttaa gaaggtggcc attacctttg actcttctgt 24060

cagctggcct ggcaatgacc gcctgcttac ccccaacgag tttgaaatta agcgctcagt 24120

tgacggggag ggttacaacg ttgcccagtg taacatgacc aaagactggt tcctggtaca 24180

aatgctagct aactacaaca ttggctacca gggcttctat atcccagaga gctacaagga 24240

ccgcatgtac tccttcttta gaaacttcca gcccatgagc cgtcaggtgg tggatgatac 24300

taaatacaag gactaccaac aggtgggcat cctacaccaa cacaacaact ctggatttgt 24360

tggctacctt gcccccacca tgcgcgaagg acaggcctac cctgctaact tcccctatcc 24420

gcttataggc aagaccgcag ttgacagcat tacccagaaa aagtttcttt gcgatcgcac 24480

cctttggcgc atcccattct ccagtaactt tatgtccatg ggcgcactca cagacctggg 24540

ccaaaacctt ctctacgcca actccgccca cgcgctagac atgacttttg aggtggatcc 24600

catggacgag cccacccttc tttatgtttt gtttgaagtc tttgacgtgg tccgtgtgca 24660

ccggccgcac cgcggcgtca tcgaaaccgt gtacctgcgc acgcccttct cggccggcaa 24720

cgccacaaca taaagaagca agcaacatca acaacagctg ccgccatggg ctccagtgag 24780

caggaactga aagccattgt caaagatctt ggttgtgggc catatttttt gggcacctat 24840

gacaagcgct ttccaggctt tgtttctcca cacaagctcg cctgcgccat agtcaatacg 24900

gccggtcgcg agactggggg cgtacactgg atggcctttg cctggaaccc gcactcaaaa 24960

acatgctacc tctttgagcc ctttggcttt tctgaccagc gactcaagca ggtttaccag 25020

tttgagtacg agtcactcct gcgccgtagc gccattgctt cttcccccga ccgctgtata 25080

acgctggaaa agtccaccca aagcgtacag gggcccaact cggccgcctg tggactattc 25140

tgctgcatgt ttctccacgc ctttgccaac tggccccaaa ctcccatgga tcacaacccc 25200

accatgaacc ttattaccgg ggtacccaac tccatgctca acagtcccca ggtacagccc 25260

accctgcgtc gcaaccagga acagctctac agcttcctgg agcgccactc gccctacttc 25320

cgcagccaca gtgcgcagat taggagcgcc acttcttttt gtcacttgaa aaacatgtaa 25380

aaataatgta ctagagacac tttcaataaa ggcaaatgct tttatttgta cactctcggg 25440

tgattattta cccccaccct tgccgtctgc gccgtttaaa aatcaaaggg gttctgccgc 25500

gcatcgctat gcgccactgg cagggacacg ttgcgatact ggtgtttagt gctccactta 25560

aactcaggca caaccatccg cggcagctcg gtgaagtttt cactccacag gctgcgcacc 25620

atcaccaacg cgtttagcag gtcgggcgcc gatatcttga agtcgcagtt ggggcctccg 25680

ccctgcgcgc gcgagttgcg atacacaggg ttgcagcact ggaacactat cagcgccggg 25740

tggtgcacgc tggccagcac gctcttgtcg gagatcagat ccgcgtccag gtcctccgcg 25800

ttgctcaggg cgaacggagt caactttggt agctgccttc ccaaaaaggg cgcgtgccca 25860

ggctttgagt tgcactcgca ccgtagtggc atcaaaaggt gaccgtgccc ggtctgggcg 25920

ttaggataca gcgcctgcat aaaagccttg atctgcttaa aagccacctg agcctttgcg 25980

ccttcagaga agaacatgcc gcaagacttg ccggaaaact gattggccgg acaggccgcg 26040

tcgtgcacgc agcaccttgc gtcggtgttg gagatctgca ccacatttcg gccccaccgg 26100

ttcttcacga tcttggcctt gctagactgc tccttcagcg cgcgctgccc gttttcgctc 26160

gtcacatcca tttcaatcac gtgctcctta tttatcataa tgcttccgtg tagacactta 26220

agctcgcctt cgatctcagc gcagcggtgc agccacaacg cgcagcccgt gggctcgtga 26280

tgcttgtagg tcacctctgc aaacgactgc aggtacgcct gcaggaatcg ccccatcatc 26340

gtcacaaagg tcttgttgct ggtgaaggtc agctgcaacc cgcggtgctc ctcgttcagc 26400

caggtcttgc atacggccgc cagagcttcc acttggtcag gcagtagttt gaagttcgcc 26460

tttagatcgt tatccacgtg gtacttgtcc atcagcgcgc gcgcagcctc catgcccttc 26520

tcccacgcag acacgatcgg cacactcagc gggttcatca ccgtaatttc actttccgct 26580

tcgctgggct cttcctcttc ctcttgcgtc cgcataccac gcgccactgg gtcgtcttca 26640

ttcagccgcc gcactgtgcg cttacctcct ttgccatgct tgattagcac cggtgggttg 26700

ctgaaaccca ccatttgtag cgccacatct tctctttctt cctcgctgtc cacgattacc 26760

tctggtgatg gcgggcgctc gggcttggga gaagggcgct tctttttctt cttgggcgca 26820

atggccaaat ccgccgccga ggtcgatggc cgcgggctgg gtgtgcgcgg caccagcgcg 26880

tcttgtgatg agtcttcctc gtcctcggac tcgatacgcc gcctcatccg ctttttgggg 26940

ggcgcccggg gaggcggcgg cgacggggac ggggacgaca cgtcctccat ggttgggggа 27000

cgtcgcgccg caccgcgtcc gcgctcgggg gtggtttcgc gctgctcctc ttcccgactg 27060

gccatttcct tctcctatag gcagaaaaag atcatggagt cagtcgagaa gaaggacagc 27120

ctaaccgccc cctctgagtt cgccaccacc gcctccaccg atgccgccaa cgcgcctacc 27180

accttccccg tcgaggcacc cccgcttgag gaggaggaag tgattatcga gcaggaccca 27240

ggttttgtaa gcgaagacga cgaggaccgc tcagtaccaa cagaggataa aaagcaagac 27300

caggacaacg cagaggcaaa cgaggaacaa gtcgggcggg gggacgaaag gcatggcgac 27360

tacctagatg tgggagacga cgtgctgttg aagcatctgc agcgccagtg cgccattatc 27420

tgcgacgcgt tgcaagagcg cagcgatgtg cccctcgcca tagcggatgt cagccttgcc 27480

tacgaacgcc acctattctc accgcgcgta ccccccaaac gccaagaaaa cggcacatgc 27540

gagcccaacc cgcgcctcaa cttctacccc gtatttgccg tgccagaggt gcttgccacc 27600

tatcacatct ttttccaaaa ctgcaagata cccctatcct gccgtgccaa ccgcagccga 27660

gcggacaagc agctggcctt gcggcagggc gctgtcatac ctgatatcgc ctcgctcaac 27720

gaagtgccaa aaatctttga gggtcttgga cgcgacgaga agcgcgcggc aaacgctctg 27780

caacaggaaa acagcgaaaa tgaaagtcac tctggagtgt tggtggaact cgagggtgac 27840

aacgcgcgcc tagccgtact aaaacgcagc atcgaggtca cccactttgc ctacccggca 27900

cttaacctac cccccaaggt catgagcaca gtcatgagtg agctgatcgt gcgccgtgcg 27960

cagcccctgg agagggatgc aaatttgcaa gaacaaacag aggagggcct acccgcagtt 28020

ggcgacgagc agctagcgcg ctggcttcaa acgcgcgagc ctgccgactt ggaggagcga 28080

cgcaaactaa tgatggccgc agtgctcgtt accgtggagc ttgagtgcat gcagcggttc 28140

tttgctgacc cggagatgca gcgcaagcta gaggaaacat tgcactacac ctttcgacag 28200

ggctacgtac gccaggcctg caagatctcc aacgtggagc tctgcaacct ggtctcctac 28260

cttggaattt tgcacgaaaa ccgccttggg caaaacgtgc ttcattccac gctcaagggc 28320

gaggcgcgcc gcgactacgt ccgcgactgc gtttacttat ttctatgcta cacctggcag 28380

acggccatgg gcgtttggca gcagtgcttg gaggagtgca acctcaagga gctgcagaaa 28440

ctgctaaagc aaaacttgaa ggacctatgg acggccttca acgagcgctc cgtggccgcg 28500

cacctggcgg acatcatttt ccccgaacgc ctgcttaaaa ccctgcaaca gggtctgcca 28560

gacttcacca gtcaaagcat gttgcagaac tttaggaact ttatcctaga gcgctcagga 28620

atcttgcccg ccacctgctg tgcacttcct agcgactttg tgcccattaa gtaccgcgaa 28680

tgccctccgc cgctttgggg ccactgctac cttctgcagc tagccaacta ccttgcctac 28740

cactctgaca taatggaaga cgtgagcggt gacggtctac tggagtgtca ctgtcgctgc 28800

aacctatgca ccccgcaccg ctccctggtt tgcaattcgc agctgcttaa cgaaagtcaa 28860

attatcggta cctttgagct gcagggtccc tcgcctgacg aaaagtccgc ggctccgggg 28920

ttgaaactca ctccggggct gtggacgtcg gcttaccttc gcaaatttgt acctgaggac 28980

taccacgccc acgagattag gttctacgaa gaccaatccc gcccgccaaa tgcggagctt 29040

accgcctgcg tcattaccca gggccacatt cttggccaat tgcaagccat caacaaagcc 29100

cgccaagagt ttctgctacg aaagggacgg ggggtttact tggaccccca gtccggcgag 29160

gagctcaacc caatcccccc gccgccgcag ccctatcagc agcagccgcg ggcccttgct 29220

tcccaggatg gcacccaaaa agaagctgca gctgccgccg ccacccacgg acgaggagga 29280

atactgggac agtcaggcag aggaggtttt ggacgaggag gaggaggaca tgatggaaga 29340

ctgggagagc ctagacgagg aagcttccga ggtcgaagag gtgtcagacg aaacaccgtc 29400

accctcggtc gcattccccc cgccggcgcc ccagaaatcg gcaaccggtt ccagcatggc 29460

tacaacctcc gctcctcagg cgccgccggc actgcccgtt cgccgaccca accgtagatg 29520

ggacaccact ggaaccaggg ccggtaagtc caagcagccg ccgccgttag cccaagagca 29580

acaacagcgc caaggctacc gctcatggcg cgggcacaag aacgccatag ttgcttgctt 29640

gcaagactgt gggggcaaca tctccttcgc ccgccgcttt cttctctacc atcacggcgt 29700

ggccttcccc cgtaacatcc tgcattacta ccgtcatctc tacagcccat actgcaccgg 29760

cggcagcggc agcggcagca acagcagcgg ccacacagaa gcaaaggcga ccggatagca 29820

agactctgac aaagcccaag aaatccacag cggcggcagc agcaggagga ggagcgctgc 29880

gtctggcgcc caacgaaccc gtatcgaccc gcgagcttag aaacaggatt tttcccactc 29940

tgtatgctat atttcaacag agcaggggcc aagaacaaga gctgaaaata aaaaacaggt 30000

ctctgcgatc cctcacccgc agctgcctgt atcacaaaag cgaagatcag cttcggcgca 30060

cgctggaaga cgcggaggct ctcttcagta aatactgcgc gctgactctt aaggactagt 30120

ttcgcgccct ttctcaaatt taagcgcgaa aactacgtca tctccagcgg ccacacccgg 30180

cgccagcacc tgtcgtcagc gccattatga gcaaggaaat tcccacgccc tacatgtgga 30240

gttaccagcc acaaatggga cttgcggctg gagctgccca agactactca acccgaataa 30300

actacatgag cgcgggaccc cacatgatat cccgggtcaa cggaatccgc gcccaccgaa 30360

accgaattct cttggaacag gcggctatta ccaccacacc tcgtaataac cttaatcccc 30420

gtagttggcc cgctgccctg gtgtaccagg aaagtcccgc tcccaccact gtggtacttc 30480

ccagagacgc ccaggccgaa gttcagatga ctaactcagg ggcgcagctt gcgggcggct 30540

ttcgtcacag ggtgcggtcg cccgggcagg gtataactca cctgacaatc agagggcgag 30600

gtattcagct caacgacgag tcggtgagct cctcgcttgg tctccgtccg gacgggacat 30660

ttcagatcgg cggcgccggc cgtccttcat tcacgcctcg tcaggcaatc ctaactctgc 30720

agacctcgtc ctctgagccg cgctctggag gcattggaac tctgcaattt attgaggagt 30780

ttgtgccatc ggtctacttt aacccccttct cgggacctcc cggccactat ccggatcaat 30840

ttattcctaa ctttgacgcg gtaaaggact cggcggacgg ctacgactga atgttaagtg 30900

gagaggcaga gcaactgcgc ctgaaacacc tggtccactg tcgccgccac aagtgctttg 30960

cccgcgactc cggtgagttt tgctactttg aattgcccga ggatcatatc gagggcccgg 31020

cgcacggcgt ccggcttacc gcccagggag agcttgcccg tagcctgatt cgggagttta 31080

cccagcgccc cctgctagtt gagcgggaca ggggaccctg tgttctcact gtgatttgca 31140

actgtcctaa ccttggatta catcaagatc ctctagttat aactagagta cccggggatc 31200

ttattccctt taactaataa aaaaaaataa taaagcatca cttacttaaa atcagttagc 31260

aaatttctgt ccagtttatt cagcagcacc tccttgccct cctcccagct ctggtattgc 31320

agcttcctcc tggctgcaaa ctttctccac aatctaaatg gaatgtcagt ttcctcctgt 31380

tcctgtccat ccgcacccac tatcttcatg ttgttgcaga tgaagcgcgc aagaccgtct 31440

gaagatacct tcaaccccgt gtatccatat gacacggaaa ccggtcctcc aactgtgcct 31500

tttcttactc ctccctttgt atcccccaat gggtttcaag agagtccccc tggggtactc 31560

tctttgcgcc tatccgaacc tctagttacc tccaatggca tgcttgcgct caaaatgggc 31620

aacggcctct ctctggacga ggccggcaac cttacctccc aaaatgtaac cactgtgagc 31680

ccacctctca aaaaaaccaa gtcaaacata aacctggaaa tatctgcacc cctcacagtt 31740

acctcagaag ccctaactgt ggctgccgcc gcacctctaa tggtcgcggg caacacactc 31800

accatgcaat cacaggcccc gctaaccgtg cacgactcca aacttagcat tgccacccaa 31860

ggacccctca cagtgtcaga aggaaagcta gccctgcaaa catcaggccc cctcaccacc 31920

accgatagca gtaccttac tatcactgcc tcacccctc taactactgc cactggtagc 31980

ttgggcattg acttgaaaga gcccatttat acacaaaatg gaaaactagg actaaagtac 32040

ggggctcctt tgcatgtaac agacgaccta aacactttga ccgtagcaac tggtccaggt 32100

gtgactatta ataatacttc cttgcaaact aaagttactg gagccttggg ttttgattca 32160

caaggcaata tgcaacttaa tgtagcagga ggactaagga ttgattctca aaacagacgc 32220

cttatacttg atgttagtta tccgtttgat gctcaaaacc aactaaatct aagactagga 32280

cagggccctc tttttataaa ctcagcccac aacttggata ttaactacaa caaaggcctt 32340

tacttgttta cagcttcaaa caattccaaa aagcttgagg ttaacctaag cactgccaag 32400

gggttgatgt ttgacgctac agccatagcc attaatgcag gagatgggct tgaatttggt 32460

tcacctaatg caccaaacac aaatcccctc aaaacaaaaa ttggccatgg cctagaattt 32520

gattcaaaca aggctatggt tcctaaacta ggaactggcc ttagttttga cagcacaggt 32580

gccattacag taggaaacaa aaataatgat aagctaactt tgtggaccac accagctcca 32640

tctcctaact gtagactaaa tgcagagaaa gatgctaaac tcactttggt cttaacaaaa 32700

tgtggcagtc aaatacttgc tacagtttca gttttggctg ttaaaggcag tttggctcca 32760

atatctggaa cagttcaaag tgctcatctt attataagat ttgacgaaaa tggagtgcta 32820

ctaaacaatt ccttcctgga cccagaatat tggaacttta gaaatggaga tcttactgaa 32880

ggcacagcct atacaaacgc tgttggattt atgcctaacc tatcagctta tccaaaatct 32940

cacggtaaaa ctgccaaaag taacattgtc agtcaagttt acttaaacgg agacaaaact 33000

aaacctgtaa cactaaccat tacactaaac ggtacacagg aaacaggaga cacaactcca 33060

agtgcatact ctatgtcatt ttcatgggac tggtctggcc acaactacat taatgaaata 33120

tttgccacat cctcttacac tttttcatac attgcccaag aataaagaat cgtttgtgtt 33180

atgtttcaac gtgtttattt ttcaattgca gaaaatttca agtcattttt cattcagtag 33240

tatagcccca ccaccacata gcttatacag atcaccgtac cttaatcaaa ctcacagaac 33300

cctagtattc aacctgccac ctccctccca acacacagag tacacagtcc tttctccccg 33360

gctggcctta aaaagcatca tatcatgggt aacagacata ttcttaggtg ttatattcca 33420

cacggtttcc tgtcgagcca aacgctcatc aagtgatatt aataaactcc ccgggcagct 33480

cacttaagtt catgtcgctg tccagctgct gagccacagg ctgctgtcca acttgcggtt 33540

gcttaacggg cggcgaagga gaagtccacg cctacatggg gggagagtca taatcgtgca 33600

tcaggatagg gcggtggtgc tgcagcagcg cgcgaataaa ctgctgccgc cgccgctccg 33660

tcctgcagga atacaacatg gcagtggtct cctcagcgat gattcgcacc gcccgcagca 33720

taaggcgctt gtcctccggg cacagcagcg caccctgatc tcacttaaat cagcacagta 33780

actgcagcac agcaccacaa tattgttcaa aatcccacag tgcaaggcgc tgtatccaaa 33840

gctcatggcg gggaccacag aacccacgtg gccatcatac cacaagcgca ggtagattaa 33900

gtggcgaccc ctcataaaca cgctggacat aaacattacc tcttttggca tgttgtaatt 33960

caccacctcc cggtaccata taaacctctg attaaacatg gcgccatcca ccaccatcct 34020

aaaccagctg gccaaaacct gccccgccgg gntatacact gcagggaacc gggacttgga 34080

caatgacaag tgggagagcc caggactcgt aaccatggat catcatgctc gtcatgatat 34140

caatgttggc acaacacagg cacacgtgca tacacttcct caggattaca agctcctccc 34200

gcgttagaac catatcccag ggaacaaccc attcctgaat cagcgtaaat cccacactgc 34260

agggaagacc tcgcacgtaa ctcacgttgt gcattgtcaa agtgttacat tcgggcagca 34320

gcggatgatc ctccagtatg gtagcgcggg tttctgtctc aaaaggaggt agacgatccc 34380

tactgtacgg agtgcgccga gacaaccgag atcgtgttgg tcgtagtgtc atgccaaatg 34440

gaacgccgga cgtagtcata tttcctgaag caaaaccagg tgcgggcgtg acaaacagat 34500

ctgcgtctcc ggtctcgccg cttagatcgc tctgtgtagt agttgtagta tatccactct 34560

ctcaaagcat ccaggcgccc cctggcttcg ggttctatgt aaactccttc atgcgccgct 34620

gccctgataa catccaccac cgcagaataa gccacaccca gccaacctac acattcgttc 34680

tgcgagtcac acacgggagg agcgggaaga gctggaagaa ccatgttttt ttttttattc 34740

caaaagatta tccaaaacct caaaatgaag atctattaag tgaacgcgct cccctccggt 34800

ggcgtggtca aactctacag ccaaagaaca gataatggca tttgtaagat gttgcacaat 34860

ggcttccaaa aggcaaacgg ccctcacgtc caagtggacg taaaggctaa acccttcagg 34920

gtgaatctcc tctataaaca ttccagcacc ttcaaccatg cccaaataat tctcatctcg 34980

ccaccttctc aatatatctc taagcaaatc ccgaatattt aagtccgggc cattgtaaaa 35040

aatttggctc cagagcgccc tccaccttca gcctcaagca gcgaatcatg attgcaaaaa 35100

ttcaggttcc tcacagacct gtataagatt caaaagcgga acattaacaa aaataccgcg 35160

atcccgtagg tcccttcgca gggccagctg aacataatcg tgcaggtctg cacggaccag 35220

cgcggccact tccccgccag gaaccatgac aaaagaaccc acactgatta tgacacgcat 35280

actcggagct atgctaacca gcgtagcccc gatgtaagct tgttgcatgg gcggcgatat 35340

aaaatgcaag gtgctgctca aaaaatcagg caaagcctcg cgcaaaaaag aaagcacatc 35400

gtagtcatgc tcatgcagat aaaggcaggt aagctccgga accaccacag aaaaagacac 35460

catttttctc tcaaacatgt ctgcgggttt ctgcataaac acaaaataaa ataacaaaaa 35520

aacatttaaa cattagaagc ctgtcttaca acaggaaaaa caacccttat aagcataaga 35580

cggactacgg ccatgccggc gtgaccgtaa aaaaactggt caccgtgatt aaaaagcacc 35640

accgacagct cctcggtcag tccggagtca taatgtaaga ctcggtaaac acatcaggtt 35700

gattcacatc ggtcagtgtt aaaaagcgac cgaaatagcc cgggggaata catacccgca 35760

ggcgtagaga caacattaca gcccccatag gaggtataac aaaattaata ggagagaaaa 35820

acacataaac acctgaaaaa ccctcctgcc taggcaaaat agcaccctcc cgctccagaa 35880

caacatacag cgcttcacag cggcagccta acagtcagcc ttaccagtaa aaaagaaaac 35940

ctattaaaaa aacaccactc gacacggcac cagctcaatc agtcacagtg taaaaaaggg 36000

ccaagtgcag agcgagtata tataggacta aaaaatgacg taacggttaa agtccacaaa 36060

aaacacccag aaaaccgcac gcgaacctac gcccagaaac gaaagccaaa aaacccacaa 36120

cttcctcaaa tcgtcacttc cgttttccca cgttacgtaa cttcccattt taagaaaact 36180

acaattccca acacatacaa gttactccgc cctaaaacct acgtcacccg ccccgttccc 36240

acgccccgcg ccacgtcaca aactccaccc cctcattatc atattggctt caatccaaaa 36300

taaggtatat tattgatgat gnnttaatta agggcggccg cacgggccat cgatggatcc 36360

gcggaagctt ctcgacccat tctcatgttt gacagcttat catcgaattt ctgccattca 36420

tccgcttatt atcacttatt caggcgtagc aaccaggcgt ttaagggcac caataactgc 36480

cttaaaaaaa ttacgccccg ccctgccact catcgcagta ctgttgtaat tcattaagca 36540

ttctgccgac atggaagcca tcacagacgg catgatgaac ctgaatcgcc agcggcatca 36600

gcaccttgtc gccttgcgta taatatttgc ccatggtgaa aacgggggcg aagaagttgt 36660

ccatattggc cacgtttaaa tcaaaactgg tgaaactcac ccagggattg gctgagacga 36720

aaaacatatt ctcaataaac cctttaggga aataggccag gttttcaccg taacacgcca 36780

catcttgcga atatatgtgt agaaactgcc ggaaatcgtc gtggtattca ctccagagcg 36840

atgaaaacgt ttcagtttgc tcatggaaaa cggtgtaaca agggtgaaca ctatcccata 36900

tcaccagctc accgtctttc attgccatac ggaattccgg atgagcattc atcaggcggg 36960

caagaatgtg aataaaggcc ggataaaact tgtgcttatt tttctttacg gtctttaaaa 37020

aggccgtaat atccagctga acggtctggt tataggtaca ttgagcaact gactgaaatg 37080

cctcaaaatg ttctttacga tgccattggg atatatcaac ggtggtatat ccagtgattt 37140

ttttctccat tttagcttcc ttagctcctg aaaatctcga taactcaaaa aatacgcccg 37200

gtagtgatct tatttcatta tggtgaaagt tggaacctct tacgtgccga tcaacgtctc 37260

attttcgcca aaagttggcc cagggcttcc cggtatcaac agggacacca ggatttattt 37320

attctgcgaa gtgatcttcc gtcacaggta tttattcgcg ataagctcat ggagcggcgt 37380

aaccgtcgca caggaaggac agagaaagcg cggatctggg aagtgacgga cagaacggtc 37440

aggacctgga ttggggaggc ggttgccgcc gctgctgctg acggtgtgac gttctctgtt 37500

ccggtcacac cacatacgtt ccgccattcc tatgcgatgc acatgctgta tgccggtata 37560

ccgctgaaag ttctgcaaag cctgatggga cataagtcca tcagttcaac ggaagtctac 37620

acgaaggttt ttgcgctgga tgtggctgcc cggcaccggg tgcagtttgc gatgccggag 37680

tctgatgcgg ttgcgatgct gaaacaatta tcctgagaat aaatgccttg gcctttatat 37740

ggaaatgtgg aactgagtgg atatgctgtt tttgtctgtt aaacagagaa gctggctgtt 37800

atccactgag aagcgaacga aacagtcggg aaaatctccc attatcgtag agatccgcat 37860

tattaatctc aggagcctgt gtagcgttta taggaagtag tgttctgtca tgatgcctgc 37920

aagcggtaac gaaaacgatt tgaatatgcc ttcaggaaca atagaaatct tcgtgcggtg 37980

ttacgttgaa gtggagcgga ttatgtcagc aatggacaga acaacctaat gaacacagaa 38040

ccatgatgtg gtctgtcctt ttacagccag taggctcgcc gcagtcgagc gacggcgaag 38100

ccctcgagtg agcgaggaag caccagggaa cagcacttat atattctgct tacacacgat 38160

gcctgaaaaa acttcccttg gggttatcca cttatccacg gggatatttt tataattatt 38220

ttttttatag tttttagatc ttctttttta gagcgccttg taggccttta tccatgctgg 38280

ttctagagaa ggtgttgtga caaattgccc tttcagtgtg acaaatcacc ctcaaatgac 38340

agtcctgtct gtgacaaatt gcccttaacc ctgtgacaaa ttgccctcag aagaagctgt 38400

tttttcacaa agttatccct gcttattgac tctttttttat ttagtgtgac aatctaaaaa 38460

cttgtcacac ttcacatgga tctgtcatgg cggaaacagc ggttatcaat cacaagaaac 38520

gtaaaaatag cccgcgaatc gtccagtcaa acgacctcac tgaggcggca tatagtctct 38580

cccgggatca aaaacgtatg ctgtatctgt tcgttgacca gatcagaaaa tctgatggca 38640

ccctacagga acatgacggt atctgcgaga tccatgttgc taaatatgct gaaatattcg 38700

gattgacctc tgcggaagcc agtaaggata tacggcaggc attgaagagt ttcgcgggga 38760

aggaagtggt tttttatcgc cctgaagagg atgccggcga tgaaaaaggc tatgaatctt 38820

ttccttggtt tatcaaacgt gcgcacagtc catccagagg gctttacagt gtacatatca 38880

acccatatct cattcccttc tttatcgggt tacagaaccg gtttacgcag tttcggctta 38940

gtgaaacaaa agaaatcacc aatccgtatg ccatgcgttt atacgaatcc ctgtgtcagt 39000

atcgtaagcc ggatggctca ggcatcgtct ctctgaaaat cgactggatc atagagcgtt 39060

accagctgcc tcaaagttac cagcgtatgc ctgacttccg ccgccgcttc ctgcaggtct 39120

gtgttaatga gatcaacagc agaactccaa tgcgcctctc atacattgag aaaaagaaag 39180

gccgccagac gactcatatc gtattttcct tccgcgatat cacttccatg acgacaggat 39240

agtctgaggg ttatctgtca cagatttgag ggtggttcgt cacatttgtt ctgacctact 39300

gagggtaatt tgtcacagtt ttgctgtttc cttcagcctg catggatttt ctcatacttt 39360

ttgaactgta atttttaagg aagccaaatt tgagggcagt ttgtcacagt tgatttcctt 39420

ctctttccct tcgtcatgtg acctgatatc gggggttagt tcgtcatcat tgatgagggt 39480

tgattatcac agtttattac tctgaattgg ctatccgcgt gtgtacctct acctggagtt 39540

tttcccacgg tggatatttc ttcttgcgct gagcgtaaga gctatctgac agaacagttc 39600

ttctttgctt cctcgccagt tcgctcgcta tgctcggtta cacggctgcg gcgagcgcta 39660

gtgataataa gtgactgagg tatgtgctct tcttatctcc ttttgtagtg ttgctcttat 39720

tttaaacaac tttgcggttt tttgatgact ttgcgatttt gttgttgctt tgcagtaaat 39780

tgcaagattt aataaaaaaa cgcaaagcaa tgattaaagg atgttcagaa tgaaactcat 39840

ggaaacactt aaccagtgca taaacgctgg tcatgaaatg acgaaggcta tcgccattgc 39900

acagtttaat gatgacagcc cggaagcgag gaaaataacc cggcgctgga gaataggtga 39960

agcagcggat ttagttgggg tttcttctca ggctatcaga gatgccgaga aagcagggcg 40020

actaccgcac ccggatatgg aaattcgagg acgggttgag caacgtgttg gttatacaat 40080

tgaacaaatt aatcatatgc gtgatgtgtt tggtacgcga ttgcgacgtg ctgaagacgt 40140

atttccaccg gtgatcgggg ttgctgccca taaaggtggc gtttacaaaa cctcagtttc 40200

tgttcatctt gctcaggatc tggctctgaa ggggctacgt gttttgctcg tggaaggtaa 40260

cgacccccag ggaacagcct caatgtatca cggatgggta ccagatcttc atattcatgc 40320

agaagacact ctcctgcctt tctatcttgg ggaaaaggac gatgtcactt atgcaataaa 40380

gcccacttgc tggccggggc ttgacattat tccttcctgt ctggctctgc accgtattga 40440

aactgagtta atgggcaaat ttgatgaagg taaactgccc accgatccac acctgatgct 40500

ccgactggcc attgaaactg ttgctcatga ctatgatgtc atagttattg acagcgcgcc 40560

taacctgggt atcggcacga ttaatgtcgt atgtgctgct gatgtgctga ttgttcccac 40620

gcctgctgag ttgtttgact acacctccgc actgcagttt ttcgatatgc ttcgtgatct 40680

gctcaagaac gttgatctta aagggttcga gcctgatgta cgtattttgc ttaccaaata 40740

cagcaatagt aatggctctc agtccccgtg gatggaggag caaattcggg atgcctgggg 40800

aagcatggtt ctaaaaaatg ttgtacgtga aacggatgaa gttggtaaag gtcagatccg 40860

gatgagaact gtttttgaac aggccattga tcaacgctct tcaactggtg cctggagaaa 40920

tgctctttct atttgggaac ctgtctgcaa tgaaattttc gatcgtctga ttaaaccacg 40980

ctgggagatt agataatgaa gcgtgcgcct gttattccaa aacatacgct caatactcaa 41040

ccggttgaag atacttcgtt atcgacacca gctgccccga tggtggattc gttaattgcg 41100

cgcgtaggag taatggctcg cggtaatgcc attactttgc ctgtatgtgg tcgggatgtg 41160

aagtttactc ttgaagtgct ccggggtgat agtgttgaga agacctctcg ggtatggtca 41220

ggtaatgaac gtgaccagga gctgcttact gaggacgcac tggatgatct catcccttct 41280

tttctactga ctggtcaaca gacaccggcg ttcggtcgaa gagtatctgg tgtcatagaa 41340

attgccgatg ggagtcgccg tcgtaaagct gctgcactta ccgaaagtga ttatcgtgtt 41400

ctggttggcg agctggatga tgagcagatg gctgcattat ccagattggg taacgattat 41460

cgcccaacaa gtgcttatga acgtggtcag cgttatgcaa gccgattgca gaatgaattt 41520

gctggaaata tttctgcgct ggctgatgcg gaaaatattt cacgtaagat tattacccgc 41580

tgtatcaaca ccgccaaatt gcctaaatca gttgttgctc ttttttctca ccccggtgaa 41640

ctatctgccc ggtcaggtga tgcacttcaa aaagccttta cagataaaga ggaattactt 41700

aagcagcagg catctaacct tcatgagcag aaaaaagctg gggtgatatt tgaagctgaa 41760

gaagttatca ctcttttaac ttctgtgctt aaaacgtcat ctgcatcaag aactagttta 41820

agctcacgac atcagtttgc tcctggagcg acagtattgt ataagggcga taaaatggtg 41880

cttaacctgg acaggtctcg tgttccaact gagtgtatag agaaaattga ggccattctt 41940

aaggaacttg aaaagccagc accctgatgc gaccacgttt tagtctacgt ttatctgtct 42000

ttacttaatg tcctttgtta caggccagaa agcataactg gcctgaatat tctctctggg 42060

cccactgttc cacttgtatc gtcggtctga taatcagact gggaccacgg tcccactcgt 42120

atcgtcggtc tgattattag tctgggacca cggtcccact cgtatcgtcg gtctgattat 42180

tagtctggga ccacggtccc actcgtatcg tcggtctgat aatcagactg ggaccacggt 42240

cccactcgta tcgtcggtct gattattagt ctgggaccat ggtcccactc gtatcgtcgg 42300

tctgattatt agtctgggac cacggtccca ctcgtatcgt cggtctgatt attagtctgg 42360

aaccacggtc ccactcgtat cgtcggtctg attattagtc tgggaccacg gtcccactcg 42420

tatcgtcggt ctgattatta gtctgggacc acgatcccac tcgtgttgtc ggtctgatta 42480

tcggtctggg accacggtcc cacttgtatt gtcgatcaga ctatcagcgt gagactacga 42540

ttccatcaat gcctgtcaag ggcaagtatt gacatgtcgt cgtaacctgt agaacggagt 42600

aacctcggtg tgcggttgta tgcctgctgt ggattgctgc tgtgtcctgc ttatccacaa 42660

cattttgcgc acggttatgt ggacaaaata cctggttacc caggccgtgc cggcacgtta 42720

accgggctgc atccgatgca agtgtgtcgc tgtcgagttt aaacatgcat ccttaattaa 42780

<210> 6
<211> 3002
<212> DNA
<213> Artificial

<220>
<223> synthetic

<400> 6
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60

ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt 120

gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180

gtgtgcgccg gtgtacacag gaagtgacaa ttttcgcgcg gttttaggcg gatgttgtag 240

taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga 300

agtgaaatct gaataatttt gtgttactca tagcgcgtaa tactggtacc ccccagtggc 360

aagacgcgca ggcaaaacgc accacgactg gatccgaatt cgaagaccac ggtgtttcgt 420

cctttccaca agatatataa agccaagaaa tcgaaatact ttcaagttac ggtaagcata 480

tgatagtcca ttttaaaaca taattttaaa actgcaaact acccaagaaa ttattacttt 540

ctacgtcacg tattttgtac taatatcttt gtgtttacag tcaaattaat tctaattatc 600

tttctaacag ccttgtatcg tatatgcaaa tatgaaggaa tcatgggaaa taggccctct 660

tcctgcccga ccttggcgcg cgctcggcgc gcggtcacgc tccgtcacgt ggtgcgtttt 720

gcctgcgcgt cttgccactg gggggtaccc cgaatcacta gatctgagct cggcctggtg 780

atgatggcgg gatcgttgta tatttcttga caccttttcg gcatcgccct aaaattcggc 840

gtcctcatat tgtgtgagga cgttttatta cgtgtttacg aagcaaaagc taaaaccagg 900

agctatttaa tggcaacaac cggtaccatg attacgccaa gctacgtaat acgactcact 960

agtggaagtt cctattctct agaaagtata ggaacttcct taagtgagtc gtattacgga 1020

ctggccgtcg ttttacaacg tcgtgactgg gaaaaccctg gcgttaccca acttaatcgc 1080

cttgcagcac atccccctttt cgccagctgg cgtaatagcg aagaggcccg caccgatcgc 1140

ccttcccaac agttgcgcag cctgaatggc gaatggcgct tcgcttggta agctagctaa 1200

ggcttaagga ggacaatcat ggcaacagtt aaccagctgg tacgcaaacc acgtgctcgc 1260

aaagttgcga aaagcaacgt gcctgcgctg gaagcatgcc cgcaaaaacg tggcgtatgt 1320

actcgtgtat atactaccac tcctaaaaaa ccgaactccg cgctgcgtaa agtatgccgt 1380

gttcgtctgt ctaacggttt cgaagtgact tcctacatcg gtggtgaagg tcacaacctg 1440

caggagcact ccgtgatcct gatccgtggc ggtcgtgtta aagacctccc gggtgttcgt 1500

taccacaccg tacgtggtgc gcttgactgc tccggcgtta aagaccgtaa gcaggctcgt 1560

tccaagtatg gcgtgaagcg tcctaaggct taactagcac gcgccatgtc agccgttaag 1620

tgttcctgtg tcactcaaaa ttgctttgag aggctctaag ggcttctcag tgcgttacat 1680

ccctggcttg ttgtccacaa ccgttaaacc ttaaaagctt taaaagcctt atatattctt 1740

ttttttctta taaaacttaa aaccttagag gctatttaag ttgctgattt atattaattt 1800

tattgttcaa acatgagagc ttagtacgtg aaacatgaga gcttagtacg ttagccatga 1860

gagcttagta cgttagccat gagggtttag ttcgttaaac atgagagctt agtacgttaa 1920

acatgagagc ttagtacgtg aaacatgaga gcttagtacg tactatcaac aggttgaact 1980

gctgatcttc agatcctcta cgccggacgc atcgtggccg gatccgattt attcaacaaa 2040

gccacgttgt gtctcaaaat ctctgatgtt acattgcaca agataaaaat atatcatcat 2100

gaacaataaa actgtctgct tacataaaca gtaatacaag gggtgttatg agccatattc 2160

aacgggaaac gtcttgctcg aggccgcgat taaattccaa catggatgct gatttatatg 2220

ggtataaatg ggctcgcgat aatgtcgggc aatcaggtgc gacaatctat cgattgtatg 2280

ggaagcccga tgcgccagag ttgtttctga aacatggcaa aggtagcgtt gccaatgatg 2340

ttacagatga gatggtcaga ctaaactggc tgacggaatt tatgcctctt ccgaccatca 2400

agcattttat ccgtactcct gatgatgcat ggttactcac cactgcgatc cccgggaaaa 2460

cagcattcca ggtattagaa gaatatcctg attcaggtga aaatattgtt gatgcgctgg 2520

cagtgttcct gcgccggttg cattcgattc ctgtttgtaa ttgtcctttt aacagcgatc 2580

gcgtatttcg tctcgctcag gcgcaatcac gaatgaataa cggtttggtt gatgcgagtg 2640

attttgatga cgagcgtaat ggctggcctg ttgaacaagt ctggaaagaa atgcataagc 2700

ttttgccatt ctcaccggat tcagtcgtca ctcatggtga tttctcactt gataacctta 2760

ttttgacga ggggaaatta ataggttgta ttgatgttgg acgagtcgga atcgcagacc 2820

gataccagga tcttgccatc ctatggaact gcctcggtga gttttctcct tcattacaga 2880

aacggctttt tcaaaaatat ggtattgata atcctgatat gaataaattg cagtttcatt 2940

tgatgctcga tgagtttttc taatcagaat tggttaattg gttgtaacac tggcttaatt 3000

aa 3002

<210> 7
<211> 34
<212> DNA
<213> Artificial

<220>
<223> synthetic

<400> 7
gaagttccta ttctctagaa agtataggaa cttc 34

<210> 8
<211> 48
<212> DNA
<213> Artificial

<220>
<223> synthetic

<400> 8
gaagttccta ttccgaagtt cctattctct agaaagtata ggaacttc 48

<210> 9
<211> 3461
<212> DNA
<213> Artificial

<220>
<223> synthetic

<220>
<221> misc_feature
<222> (341)..(344)
<223> n is a, c, g, or t

<400> 9
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60

ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt 120

gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180

gtgtgcgccg gtgtacacag gaagtgacaa ttttcgcgcg gttttaggcg gatgttgtag 240

taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga 300

agtgaaatct gaataatttt gtgttactca tagcgcgtaa nnnntaatag taatcaatta 360

cggggtcatt agttcatagc ccatatatgg agttccgcgt tacataactt acggtaaatg 420

gcccgcctgg ctgaccgccc aacgaccccc gcccattgac gtcaataatg acgtatgttc 480

ccatagtaac gccaataggg actttccatt gacgtcaatg ggtggagtat ttacggtaaa 540

ctgcccactt ggcagtacat caagtgtatc atatgccaag tacgcccccc attgacgtca 600

atgacggtaa atggcccgcc tggcattatg cccagtacat gaccttatgg gactttccta 660

cttggcagta catctacgta ttagtcatcg ctattaccat ggtgatgcgg ttttggcagt 720

acatcaatgg gcgtggatag cggtttgact cacggggatt tccaagtctc caccccattg 780

acgtcaatgg gagtttgttt tggcaccaaa atcaacggga ctttccaaaa tgtcgtaaca 840

actccgcccc attgacgcaa atgggcggta ggcgtgtacg gtgggaggtc tatataagca 900

gagctggttt agtgaaccgt cagatccgct agcgctaccg gactcagatc tcgagctcaa 960

gcttcgaatt ctgcagtcga cggtaccgcg ggcccgggat ccaccggtcg ccaccatggt 1020

gagcaagggc gaggagctgt tcaccggggt ggtgcccatc ctggtcgagc tggacggcga 1080

cgtaaacggc cacaagttca gcgtgtccgg cgagggcgag ggcgatgcca cctacggcaa 1140

gctgaccctg aagttcatct gcaccaccgg caagctgccc gtgccctggc ccaccctcgt 1200

gaccaccctg acctacggcg tgcagtgctt cagccgctac cccgaccaca tgaagcagca 1260

cgacttcttc aagtccgcca tgcccgaagg ctacgtccag gagcgcacca tcttcttcaa 1320

ggacgacggc aactacaaga cccgcgccga ggtgaagttc gagggcgaca ccctggtgaa 1380

ccgcatcgag ctgaagggca tcgacttcaa ggaggacggc aacatcctgg ggcacaagct 1440

ggagtacaac tacaacagcc acaacgtcta tatcatggcc gacaagcaga agaacggcat 1500

caaggtgaac ttcaagatcc gccacaacat cgaggacggc agcgtgcagc tcgccgacca 1560

ctaccagcag aacaccccca tcggcgacgg ccccgtgctg ctgcccgaca accactacct 1620

gagcacccag tccgccctga gcaaagaccc caacgagaag cgcgatcaca tggtcctgct 1680

ggagttcgtg accgccgccg ggatcactct cggcatggac gagctgtaca agtaaagcgg 1740

ccgcgactct agatcataat cagccatacc acatttgtag aggttttact tgctttaaaa 1800

aacctcccac acctcccccc gaacctgaaa cataaaatga atgcaattgt tgttgttaac 1860

ttgtttattg cagcttataa tggttacaaa taaagcaata gcatcacaaa tttcacaaat 1920

aaagcatttt tttcactgca ttctagttgt ggtttgtcca aactcatcaa tgtatcttaa 1980

atcgaattca agcttgtcga ctcgaagatc tgagctcacg cgtgaagttc ctattctcta 2040

gaaagtatag gaacttcaat tcccatgtca gccgttaagt gttcctgtgt cactcaaaat 2100

tgctttgaga ggctctaagg gcttctcagt gcgttacatc cctggcttgt tgtccacaac 2160

cgttaaacct taaaagcttt aaaagcctta tatattcttt tttttcttat aaaacttaaa 2220

accttagagg ctatttaagt tgctgattta tattaatttt attgttcaaa catgagagct 2280

tagtacgtga aacatgagag cttagtacgt tagccatgag agcttagtac gttagccatg 2340

agggtttagt tcgttaaaca tgagagctta gtacgttaaa catgagagct tagtacgtga 2400

aacatgagag cttagtacgt actatcaaca ggttgaactg ctgatcttca gatcctctac 2460

gccggacgca tcgtggccgg atccgattta ttcaacaaag ccacgttgtg tctcaaaatc 2520

tctgatgtta cattgcacaa gataaaaata tatcatcatg aacaataaaa ctgtctgctt 2580

acataaacag taatacaagg ggtgttatga gccatattca acgggaaacg tcttgctcga 2640

ggccgcgatt aaattccaac atggatgctg atttatatgg gtataaatgg gctcgcgata 2700

atgtcgggca atcaggtgcg acaatctatc gattgtatgg gaagcccgat gcgccagagt 2760

tgtttctgaa acatggcaaa ggtagcgttg ccaatgatgt tacagatgag atggtcagac 2820

taaactggct gacggaattt atgcctcttc cgaccatcaa gcattttatc cgtactcctg 2880

atgatgcatg gttactcacc actgcgatcc ccgggaaaac agcattccag gtattagaag 2940

aatatcctga ttcaggtgaa aatattgttg atgcgctggc agtgttcctg cgccggttgc 3000

attcgattcc tgtttgtaat tgtcctttta acagcgatcg cgtatttcgt ctcgctcagg 3060

cgcaatcacg aatgaataac ggtttggttg atgcgagtga ttttgatgac gagcgtaatg 3120

gctggcctgt tgaacaagtc tggaaagaaa tgcataagct tttgccattc tcaccggatt 3180

cagtcgtcac tcatggtgat ttctcacttg ataaccttat ttttgacgag gggaaattaa 3240

taggttgtat tgatgttgga cgagtcggaa tcgcagaccg ataccaggat cttgccatcc 3300

tatggaactg cctcggtgag ttttctcctt cattacagaa acggcttttt caaaaatatg 3360

gtattgataa tcctgatatg aataaattgc agtttcattt gatgctcgat gagttttct 3420

aatcagaatt ggttaattgg ttgtaacact ggcttaatta a 3461

<210> 10
<211> 342
<212> DNA
<213> Artificial

<220>
<223> synthetic

<400> 10
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60

ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt 120

gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180

gtgtgcgccg gtgtacacag gaagtgacaa ttttcgcgcg gttttaggcg gatgttgtag 240

taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga 300

agtgaaatct gaataatttt gtgttactca tagcgcgtaa ta 342

<210> 11
<211> 40322
<212> DNA
<213> Artificial

<220>
<223> synthetic

<400> 11
gaagttccta ttccgaagtt cctattctct agaaagtata ggaacttcct taagtgagtc 60

gtattacgga ctggccgtcg ttttacaacg tcgtgactgg gaaaaccctg gcgttaccca 120

acttaatcgc cttgcagcac atccccctttt cgccagctgg cgtaatagcg aagaggcccg 180

caccgatcgc ccttcccaac agttgcgcag cctgaatggc gaatggcgct tcgcttggta 240

agctagctaa ggcttaagga ggacaatcat ggcaacagtt aaccagctgg tacgcaaacc 300

acgtgctcgc aaagttgcga aaagcaacgt gcctgcgctg gaagcatgcc cgcaaaaacg 360

tggcgtatgt actcgtgtat atactaccac tcctaaaaaa ccgaactccg cgctgcgtaa 420

agtatgccgt gttcgtctgt ctaacggttt cgaagtgact tcctacatcg gtggtgaagg 480

tcacaacctg caggagcact ccgtgatcct gatccgtggc ggtcgtgtta aagacctccc 540

gggtgttcgt taccacaccg tacgtggtgc gcttgactgc tccggcgtta aagaccgtaa 600

gcaggctcgt tccaagtatg gcgtgaagcg tcctaaggct taactagcac gcgccatgtc 660

agccgttaag tgttcctgtg tcactcaaaa ttgctttgag aggctctaag ggcttctcag 720

tgcgttacat ccctggcttg ttgtccacaa ccgttaaacc ttaaaagctt taaaagcctt 780

atatattctt ttttttctta taaaacttaa aaccttagag gctatttaag ttgctgattt 840

atattaattt tattgttcaa acatgagagc ttagtacgtg aaacatgaga gcttagtacg 900

ttagccatga gagcttagta cgttagccat gagggtttag ttcgttaaac atgagagctt 960

agtacgttaa acatgagagc ttagtacgtg aaacatgaga gcttagtacg tactatcaac 1020

aggttgaact gctgatcttc agatcctcta cgccggacgc atcgtggccg gatccgattt 1080

attcaacaaa gccacgttgt gtctcaaaat ctctgatgtt acattgcaca agataaaaat 1140

atatcatcat gaacaataaa actgtctgct tacataaaca gtaatacaag gggtgttatg 1200

agccatattc aacgggaaac gtcttgctcg aggccgcgat taaattccaa catggatgct 1260

gatttatatg ggtataaatg ggctcgcgat aatgtcgggc aatcaggtgc gacaatctat 1320

cgattgtatg ggaagcccga tgcgccagag ttgtttctga aacatggcaa aggtagcgtt 1380

gccaatgatg ttacagatga gatggtcaga ctaaactggc tgacggaatt tatgcctctt 1440

ccgaccatca agcattttat ccgtactcct gatgatgcat ggttactcac cactgcgatc 1500

cccgggaaaa cagcattcca ggtattagaa gaatatcctg attcaggtga aaatattgtt 1560

gatgcgctgg cagtgttcct gcgccggttg cattcgattc ctgtttgtaa ttgtcctttt 1620

aacagcgatc gcgtatttcg tctcgctcag gcgcaatcac gaatgaataa cggtttggtt 1680

gatgcgagtg attttgatga cgagcgtaat ggctggcctg ttgaacaagt ctggaaagaa 1740

atgcataagc ttttgccatt ctcaccggat tcagtcgtca ctcatggtga tttctcactt 1800

gataacctta tttttgacga ggggaaatta ataggttgta ttgatgttgg acgagtcgga 1860

atcgcagacc gataccagga tcttgccatc ctatggaact gcctcggtga gttttctcct 1920

tcattacaga aacggctttt tcaaaaatat ggtattgata atcctgatat gaataaattg 1980

cagtttcatt tgatgctcga tgagtttttc taatcagaat tggttaattg gttgtaacac 2040

tggcttaatt aacatcatca ataatatacc ttattttgga ttgaagccaa tatgataatg 2100

agggggtgga gtttgtgacg tggcgcgggg cgtgggaacg gggcgggtga cgtagtagtg 2160

tggcggaagt gtgatgttgc aagtgtggcg gaacacatgt aagcgacgga tgtggcaaaa 2220

gtgacgtttt tggtgtgcgc cggtgtacac aggaagtgac aattttcgcg cggttttagg 2280

cggatgttgt agtaaatttg ggcgtaaccg agtaagattt ggccattttc gcgggaaaac 2340

tgaataagag gaagtgaaat ctgaataatt ttgtgttact catagcgcgt aatactggta 2400

ccccccagtg gcaagacgcg caggcaaaac gcaccacgac tggatccgaa ttcgaagacc 2460

acggtgtttc gtcctttcca caagatatat aaagccaaga aatcgaaata ctttcaagtt 2520

acggtaagca tatgatagtc cattttaaaa cataatttta aaactgcaaa ctacccaaga 2580

aattattact ttctacgtca cgtattttgt actaatatct ttgtgtttac agtcaaatta 2640

attctaatta tctttctaac agccttgtat cgtatatgca aatatgaagg aatcatggga 2700

aataggccct cttcctgccc gaccttggcg cgcgctcggc gcgcggtcac gctccgtcac 2760

gtggtgcgtt ttgcctgcgc gtcttgccac tgggggggtac cccgaatcac tagatctgag 2820

ctcggcctgg tgatgatggc gggatcgttg tatatttctt gacacctttt cggcatcgcc 2880

ctaaaattcg gcgtcctcat attgtgtgag gacgttttat tacgtgttta cgaagcaaaa 2940

gctaaaacca ggagctattt aatggcaaca accggtacca tgattacgcc aagctacgta 3000

atacgactca ctagtggaag ttcctattct ctagaaagta taggaacttc agagcgcttt 3060

tgaagctggg gtgggcgaag aactccagca tgagatcccc agagcgcttt tgaagctgcg 3120

tttaaacgcg atatcccggg agctcccgat atcgcgttta aacgcagctt ggcgtaatca 3180

tggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca caacatacga 3240

gccggaagac tgaaatgtgt gggcgtggct taagggtggg aaagaatata taaggtgggg 3300

gtcttatgta gttttgtatc tgttttgcag cagccgccgc cgccatgagc accaactcgt 3360

ttgatggaag cattgtgagc tcatatttga caacgcgcat gcccccatgg gccggggtgc 3420

gtcagaatgt gatgggctcc agcattgatg gtcgccccgt cctgcccgca aactctacta 3480

ccttgaccta cgagaccgtg tctggaacgc cgttggagac tgcagcctcc gccgccgctt 3540

cagccgctgc agccaccgcc cgcgggattg tgactgactt tgctttcctg agcccgcttg 3600

caagcagtgc agcttcccgt tcatccgccc gcgatgacaa gttgacggct cttttggcac 3660

aattggattc tttgacccgg gaacttaatg tcgtttctca gcagctgttg gatctgcgcc 3720

agcaggtttc tgccctgaag gcttcctccc ctcccaatgc ggtttaaaac ataaataaaa 3780

aaccagactc tgtttggatt tggatcaagc aagtgtcttg ctgtctttat ttaggggttt 3840

tgcgcgcgcg gtaggcccgg gaccagcggt ctcggtcgtt gagggtcctg tgtatttttt 3900

ccaggacgtg gtaaaggtga ctctggatgt tcagatacat gggcataagc ccgtctctgg 3960

ggtggaggta gcaccactgc agagcttcat gctgcggggt ggtgttgtag atgatccagt 4020

cgtagcagga gcgctgggcg tggtgcctaa aaatgtcttt cagtagcaag ctgattgcca 4080

ggggcaggcc cttggtgtaa gtgtttacaa agcggttaag ctgggatggg tgcatacgtg 4140

gggatatgag atgcatcttg gactgtattt ttaggttggc tatgttccca gccatatccc 4200

tccggggatt catgttgtgc agaaccacca gcacagtgta tccggtgcac ttgggaaatt 4260

tgtcatgtag cttagaagga aatgcgtgga agaacttgga gacgcccttg tgacctccaa 4320

gattttccat gcattcgtcc ataatgatgg caatgggccc acgggcggcg gcctgggcga 4380

agatatttct gggatcacta acgtcatagt tgtgttccag gatgagatcg tcataggcca 4440

tttttacaaa gcgcgggcgg agggtgccag actgcggtat aatggttcca tccggcccag 4500

gggcgtagtt accctcacag atttgcattt cccacgcttt gagttcagat gggggggatca 4560

tgtctacctg cggggcgatg aagaaaacgg tttccggggt aggggagatc agctgggaag 4620

aaagcaggtt cctgagcagc tgcgacttac cgcagccggt gggcccgtaa atcacaccta 4680

ttaccgggtg caactggtag ttaagagagc tgcagctgcc gtcatccctg agcaggggggg 4740

ccacttcgtt aagcatgtcc ctgactcgca tgttttccct gaccaaatcc gccagaaggc 4800

gctcgccgcc cagcgatagc agttcttgca aggaagcaaa gtttttcaac ggtttgagac 4860

cgtccgccgt aggcatgctt ttgagcgttt gaccaagcag ttccaggcgg tcccacagct 4920

cggtcacctg ctctacggca tctcgatcca gcatatctcc tcgtttcgcg ggttggggcg 4980

gctttcgctg tacggcagta gtcggtgctc gtccagacgg gccagggtca tgtctttcca 5040

cgggcgcagg gtcctcgtca gcgtagtctg ggtcacggtg aaggggtgcg ctccgggctg 5100

cgcgctggcc agggtgcgct tgaggctggt cctgctggtg ctgaagcgct gccggtcttc 5160

gccctgcgcg tcggccaggt agcatttgac catggtgtca tagtccagcc cctccgcggc 5220

gtggcccttg gcgcgcagct tgcccttgga ggaggcgccg cacgaggggc agtgcagact 5280

tttgagggcg tagagcttgg gcgcgagaaa taccgattcc ggggagtagg catccgcgcc 5340

gcaggccccg cagacggtct cgcattccac gagccaggtg agctctggcc gttcggggtc 5400

aaaaaccagg tttcccccat gctttttgat gcgtttctta cctctggttt ccatgagccg 5460

gtgtccacgc tcggtgacga aaaggctgtc cgtgtccccg tatacagact tgagaggcct 5520

gtcctcgagc ggtgttccgc ggtcctcctc gtatagaaac tcggaccact ctgagacaaa 5580

ggctcgcgtc caggccagca cgaaggaggc taagtgggag gggtagcggt cgttgtccac 5640

taggggtcc actcgctcca gggtgtgaag acacatgtcg ccctcttcgg catcaaggaa 5700

ggtgattggt ttgtaggtgt aggccacgtg accgggtgtt cctgaagggg ggctataaaa 5760

gggggtgggg gcgcgttcgt cctcactctc ttccgcatcg ctgtctgcga gggccagctg 5820

ttggggtgag tactccctct gaaaagcggg catgacttct gcgctaagat tgtcagtttc 5880

caaaaacgag gaggatttga tattcacctg gcccgcggtg atgcctttga gggtggccgc 5940

atccatctgg tcagaaaaga caatcttttt gttgtcaagc ttggtggcaa acgacccgta 6000

gagggcgttg gacagcaact tggcgatgga gcgcagggtt tggtttttgt cgcgatcggc 6060

gcgctccttg gccgcgatgt ttagctgcac gtattcgcgc gcaacgcacc gccattcggg 6120

aaagacggtg gtgcgctcgt cgggcaccag gtgcacgcgc caaccgcggt tgtgcagggt 6180

gacaaggtca acgctggtgg ctacctctcc gcgtaggcgc tcgttggtcc agcagaggcg 6240

gccgcccttg cgcgagcaga atggcggtag ggggtctagc tgcgtctcgt ccgggggggtc 6300

tgcgtccacg gtaaagaccc cgggcagcag gcgcgcgtcg aagtagtcta tcttgcatcc 6360

ttgcaagtct agcgcctgct gccatgcgcg ggcggcaagc gcgcgctcgt atgggttgag 6420

tgggggaccc catggcatgg ggtgggtgag cgcggaggcg tacatgccgc aaatgtcgta 6480

aacgtagagg ggctctctga gtattccaag atatgtaggg tagcatcttc caccgcggat 6540

gctggcgcgc acgtaatcgt atagttcgtg cgagggagcg aggaggtcgg gaccgaggtt 6600

gctacgggcg ggctgctctg ctcggaagac tatctgcctg aagatggcat gtgagttgga 6660

tgatatggtt ggacgctgga agacgttgaa gctggcgtct gtgagaccta ccgcgtcacg 6720

cacgaaggag gcgtaggagt cgcgcagctt gttgaccagc tcggcggtga cctgcacgtc 6780

tagggcgcag tagtccaggg tttccttgat gatgtcatac ttatcctgtc cttttttttt 6840

ccacagctcg cggttgagga caaactcttc gcggtctttc cagtactctt ggatcggaaa 6900

cccgtcggcc tccgaacggt aagagcctag catgtagaac tggttgacgg cctggtaggc 6960

gcagcatccc ttttctacgg gtagcgcgta tgcctgcgcg gccttccgga gcgaggtgtg 7020

ggtgagcgca aaggtgtccc tgaccatgac tttgaggtac tggtatttga agtcagtgtc 7080

gtcgcatccg ccctgctccc agagcaaaaa gtccgtgcgc tttttggaac gcggatttgg 7140

cagggcgaag gtgacatcgt tgaagagtat ctttcccgcg cgaggcataa agttgcgtgt 7200

gatgcggaag ggtcccggca cctcggaacg gttgttaatt acctgggcgg cgagcacgat 7260

ctcgtcaaag ccgttgatgt tgtggcccac aatgtaaagt tccaagaagc gcgggatgcc 7320

cttgatggaa ggcaattttt taagttcctc gtaggtgagc tcttcagggg agctgagccc 7380

gtgctctgaa agggcccagt ctgcaagatg agggttggaa gcgacgaatg agctccacag 7440

gtcacgggcc attagcattt gcaggtggtc gcgaaaggtc ctaaactggc gacctatggc 7500

catttttct ggggtgatgc agtagaaggt aagcgggtct tgttcccagc ggtcccatcc 7560

aaggttcgcg gctaggtctc gcgcggcagt cactagaggc tcatctccgc cgaacttcat 7620

gaccagcatg aagggcacga gctgcttccc aaaggccccc atccaagtat aggtctctac 7680

atcgtaggtg acaaagagac gctcggtgcg aggatgcgag ccgatcggga agaactggat 7740

ctcccgccac caattggagg agtggctatt gatgtggtga aagtagaagt ccctgcgacg 7800

ggccgaacac tcgtgctggc ttttgtaaaa acgtgcgcag tactggcagc ggtgcacggg 7860

ctgtacatcc tgcacgaggt tgacctgacg accgcgcaca aggaagcaga gtgggaattt 7920

gagcccctcg cctggcgggt ttggctggtg gtcttctact tcggctgctt gtccttgacc 7980

gtctggctgc tcgaggggag ttacggtgga tcggaccacc acgccgcgcg agcccaaagt 8040

ccagatgtcc gcgcgcggcg gtcggagctt gatgacaaca tcgcgcagat gggagctgtc 8100

catggtctgg agctcccgcg gcgtcaggtc aggcgggagc tcctgcaggt ttacctcgca 8160

tagacgggtc agggcgcggg ctagatccag gtgataccta atttccaggg gctggttggt 8220

ggcggcgtcg atggcttgca agaggccgca tccccgcggc gcgactacgg taccgcgcgg 8280

cgggcggtgg gccgcggggg tgtccttgga tgatgcatct aaaagcggtg acgcgggcga 8340

gcccccggag gtagggggggg ctccggaccc gccgggagag ggggcagggg cacgtcggcg 8400

ccgcgcgcgg gcaggagctg gtgctgcgcg cgtaggttgc tggcgaacgc gacgacgcgg 8460

cggttgatct cctgaatctg gcgcctctgc gtgaagacga cgggcccggt gagcttgagc 8520

ctgaaagaga gttcgacaga atcaatttcg gtgtcgttga cggcggcctg gcgcaaaatc 8580

tcctgcacgt ctcctgagtt gtcttgatag gcgatctcgg ccatgaactg ctcgatctct 8640

tcctcctgga gatctccgcg tccggctcgc tccacggtgg cggcgaggtc gttggaaatg 8700

cgggccatga gctgcgagaa ggcgttgagg cctccctcgt tccagacgcg gctgtagacc 8760

acgccccctt cggcatcgcg ggcgcgcatg accacctgcg cgagattgag ctccacgtgc 8820

cgggcgaaga cggcgtagtt tcgcaggcgc tgaaagaggt agttgagggt ggtggcggtg 8880

tgttctgcca cgaagaagta cataacccag cgtcgcaacg tggattcgtt gatatccccc 8940

aaggcctcaa ggcgctccat ggcctcgtag aagtccacgg cgaagttgaa aaactgggag 9000

ttgcgcgccg acacggttaa ctcctcctcc agaagacgga tgagctcggc gacagtgtcg 9060

cgcacctcgc gctcaaaggc tacaggggcc tcttcttctt cttcaatctc ctcttccata 9120

agggcctccc cttcttcttc ttctggcggc ggtgggggag gggggacacg gcggcgacga 9180

cggcgcaccg ggaggcggtc gacaaagcgc tcgatcatct ccccgcggcg acggcgcatg 9240

gtctcggtga cggcgcggcc gttctcgcgg gggcgcagtt ggaagacgcc gcccgtcatg 9300

tcccggttat gggttggcgg ggggctgcca tgcggcaggg atacggcgct aacgatgcat 9360

ctcaacaatt gttgtgtagg tactccgccg ccgagggacc tgagcgagtc cgcatcgacc 9420

ggatcggaaa acctctcgag aaaggcgtct aaccagtcac agtcgcaagg taggctgagc 9480

accgtggcgg gcggcagcgg gcggcggtcg gggttgtttc tggcggaggt gctgctgatg 9540

atgtaattaa agtaggcggt cttgagacgg cggatggtcg acagaagcac catgtccttg 9600

ggtccggcct gctgaatgcg caggcggtcg gccatgcccc aggcttcgtt ttgacatcgg 9660

cgcaggtctt tgtagtagtc ttgcatgagc ctttctaccg gcacttcttc ttctccttcc 9720

tcttgtcctg catctcttgc atctatcgct gcggcggcgg cggagtttgg ccgtaggtgg 9780

cgccctcttc ctcccatgcg tgtgaccccg aagcccctca tcggctgaag cagggctagg 9840

tcggcgacaa cgcgctcggc taatatggcc tgctgcacct gcgtgagggt agactggaag 9900

tcatccatgt ccacaaagcg gtggtatgcg cccgtgttga tggtgtaagt gcagttggcc 9960

ataacggacc agttaacggt ctggtgaccc ggctgcgaga gctcggtgta cctgagacgc 10020

gagtaagccc tcgagtcaaa tacgtagtcg ttgcaagtcc gcaccaggta ctggtatccc 10080

accaaaaagt gcggcggcgg ctggcggtag aggggccagc gtagggtggc cggggctccg 10140

ggggcgagat cttccaacat aaggcgatga tatccgtaga tgtacctgga catccaggtg 10200

atgccggcgg cggtggtgga ggcgcgcgga aagtcgcgga cgcggttcca gatgttgcgc 10260

agcggcaaaa agtgctccat ggtcgggacg ctctggccgg tcaggcgcgc gcaatcgttg 10320

acgctctaga ccgtgcaaaa ggagagcctg taagcgggca ctcttccgtg gtctggtgga 10380

taaattcgca agggtatcat ggcggacgac cggggttcga gccccgtatc cggccgtccg 10440

ccgtgatcca tgcggttacc gcccgcgtgt cgaacccagg tgtgcgacgt cagacaacgg 10500

gggagtgctc cttttggctt ccttccaggc gcggcggctg ctgcgctagc ttttttggcc 10560

actggccgcg cgcagcgtaa gcggttaggc tggaaagcga aagcattaag tggctcgctc 10620

cctgtagccg gagggttatt ttccaagggt tgagtcgcgg gacccccggt tcgagtctcg 10680

gaccggccgg actgcggcga acgggggttt gcctccccgt catgcaagac cccgcttgca 10740

aattcctccg gaaacaggga cgagcccctt ttttgctttt cccagatgca tccggtgctg 10800

cggcagatgc gcccccctcc tcagcagcgg caagagcaag agcagcggca gacatgcagg 10860

gcaccctccc ctcctcctac cgcgtcagga ggggcgacat ccgcggttga cgcggcagca 10920

gatggtgatt acgaaccccc gcggcgccgg gcccggcact acctggactt ggaggagggc 10980

gagggcctgg cgcggctagg agcgccctct cctgagcggt acccaagggt gcagctgaag 11040

cgtgatacgc gtgaggcgta cgtgccgcgg cagaacctgt ttcgcgaccg cgagggagag 11100

gagcccgagg agatgcggga tcgaaagttc cacgcagggc gcgagctgcg gcatggcctg 11160

aatcgcgagc ggttgctgcg cgaggaggac tttgagcccg acgcgcgaac cgggattagt 11220

cccgcgcgcg cacacgtggc ggccgccgac ctggtaaccg catacgagca gacggtgaac 11280

caggagatta actttcaaaa aagctttaac aaccacgtgc gtacgcttgt ggcgcgcgag 11340

gaggtggcta taggactgat gcatctgtgg gactttgtaa gcgcgctgga gcaaaaccca 11400

aatagcaagc cgctcatggc gcagctgttc cttatagtgc agcacagcag ggacaacgag 11460

gcattcaggg atgcgctgct aaacatagta gagcccgagg gccgctggct gctcgatttg 11520

ataaacatcc tgcagagcat agtggtgcag gagcgcagct tgagcctggc tgacaaggtg 11580

gccgccatca actattccat gcttagcctg ggcaagtttt acgcccgcaa gatataccat 11640

acccctacg ttcccataga caaggaggta aagatcgagg ggttctacat gcgcatggcg 11700

ctgaaggtgc ttaccttgag cgacgacctg ggcgtttatc gcaacgagcg catccacaag 11760

gccgtgagcg tgagccggcg gcgcgagctc agcgaccgcg agctgatgca cagcctgcaa 11820

agggccctgg ctggcacggg cagcggcgat agagaggccg agtcctactt tgacgcgggc 11880

gctgacctgc gctgggcccc aagccgacgc gccctggagg cagctggggc cggacctggg 11940

ctggcggtgg cacccgcgcg cgctggcaac gtcggcggcg tggaggaata tgacgaggac 12000

gatgagtacg agccagagga cggcgagtac taagcggtga tgtttctgat cagatgatgc 12060

aagacgcaac ggacccggcg gtgcgggcgg cgctgcagag ccagccgtcc ggccttaact 12120

ccacggacga ctggcgccag gtcatggacc gcatcatgtc gctgactgcg cgcaatcctg 12180

acgcgttccg gcagcagccg caggccaacc ggctctccgc aattctggaa gcggtggtcc 12240

cggcgcgcgc aaaccccacg cacgagaagg tgctggcgat cgtaaacgcg ctggccgaaa 12300

acagggccat ccggcccgac gaggccggcc tggtctacga cgcgctgctt cagcgcgtgg 12360

ctcgttacaa cagcggcaac gtgcagacca acctggaccg gctggtgggg gatgtgcgcg 12420

aggccgtggc gcagcgtgag cgcgcgcagc agcagggcaa cctgggctcc atggttgcac 12480

taaacgcctt cctgagtaca cagcccgcca acgtgccgcg gggacaggag gactacacca 12540

actttgtgag cgcactgcgg ctaatggtga ctgagacacc gcaaagtgag gtgtaccagt 12600

ctgggccaga ctatttttc cagaccagta gacaaggcct gcagaccgta aacctgagcc 12660

aggctttcaa aaacttgcag gggctgtggg gggtgcgggc tcccacaggc gaccgcgcga 12720

ccgtgtctag cttgctgacg cccaactcgc gcctgttgct gctgctaata gcgcccttca 12780

cggacagtgg cagcgtgtcc cgggacacat acctaggtca cttgctgaca ctgtaccgcg 12840

aggccatagg tcaggcgcat gtggacgagc atactttcca ggagattaca agtgtcagcc 12900

gcgcgctggg gcaggaggac acgggcagcc tggaggcaac cctaaactac ctgctgacca 12960

accggcggca gaagatcccc tcgttgcaca gtttaaacag cgaggaggag cgcattttgc 13020

gctacgtgca gcagagcgtg agccttaacc tgatgcgcga cggggtaacg cccagcgtgg 13080

cgctggacat gaccgcgcgc aacatggaac cgggcatgta tgcctcaaac cggccgttta 13140

tcaaccgcct aatggactac ttgcatcgcg cggccgccgt gaaccccgag tatttcacca 13200

atgccatctt gaacccgcac tggctaccgc cccctggttt ctacaccggg ggattcgagg 13260

tgcccgaggg taacgatgga ttcctctggg acgacataga cgacagcgtg ttttccccgc 13320

aaccgcagac cctgctagag ttgcaacagc gcgagcaggc agaggcggcg ctgcgaaagg 13380

aaagcttccg caggccaagc agcttgtccg atctaggcgc tgcggccccg cggtcagatg 13440

ctagtagccc atttccaagc ttgatagggt ctcttaccag cactcgcacc acccgcccgc 13500

gcctgctggg cgaggaggag tacctaaaca actcgctgct gcagccgcag cgcgaaaaaa 13560

acctgcctcc ggcatttccc aacaacggga tagagagcct agtggacaag atgagtagat 13620

ggaagacgta cgcgcaggag cacagggacg tgccaggccc gcgcccgccc acccgtcgtc 13680

aaaggcacga ccgtcagcgg ggtctggtgt gggaggacga tgactcggca gacgacagca 13740

gcgtcctgga tttgggaggg agtggcaacc cgtttgcgca ccttcgcccc aggctgggga 13800

gaatgtttta aaaaaaaaaa agcatgatgc aaaataaaaa actcaccaag gccatggcac 13860

cgagcgttgg ttttcttgta ttccccttag tatgcggcgc gcggcgatgt atgaggaagg 13920

tcctcctccc tcctacgaga gtgtggtgag cgcggcgcca gtggcggcgg cgctgggttc 13980

tcccttcgat gctcccctgg acccgccgtt tgtgcctccg cggtacctgc ggcctaccgg 14040

ggggagaaac agcatccgtt actctgagtt ggcaccccta ttcgacacca cccgtgtgta 14100

cctggtggac aacaagtcaa cggatgtggc atccctgaac taccagaacg accacagcaa 14160

ctttctgacc acggtcattc aaaacaatga ctacagcccg ggggaggcaa gcacacagac 14220

catcaatctt gacgaccggt cgcactgggg cggcgacctg aaaaccatcc tgcataccaa 14280

catgccaaat gtgaacgagt tcatgtttac caataagttt aaggcgcggg tgatggtgtc 14340

gcgcttgcct actaaggaca atcaggtgga gctgaaatac gagtgggtgg agttcacgct 14400

gcccgagggc aactactccg agaccatgac catagacctt atgaacaacg cgatcgtgga 14460

gcactacttg aaagtgggca gacagaacgg ggttctggaa agcgacatcg gggtaaagtt 14520

tgacacccgc aacttcagac tggggtttga ccccgtcact ggtcttgtca tgcctggggt 14580

atatacaaac gaagccttcc atccagacat cattttgctg ccaggatgcg gggtggactt 14640

cacccacagc cgcctgagca acttgttggg catccgcaag cggcaaccct tccaggaggg 14700

ctttaggatc acctacgatg atctggaggg tggtaacatt cccgcactgt tggatgtgga 14760

cgcctaccag gcgagcttga aagatgacac cgaacagggc gggggtggcg caggcggcag 14820

caacagcagt ggcagcggcg cggaagagaa ctccaacgcg gcagccgcgg caatgcagcc 14880

ggtggaggac atgaacgatc atgccattcg cggcgacacc tttgccacac gggctgagga 14940

gaagcgcgct gaggccgaag cagcggccga agctgccgcc cccgctgcgc aacccgaggt 15000

cgagaagcct cagaagaaac cggtgatcaa acccctgaca gaggacagca agaaacgcag 15060

ttacaaccta ataagcaatg acagcacctt cacccagtac cgcagctggt accttgcata 15120

caactacggc gaccctcaga ccggaatccg ctcatggacc ctgctttgca ctcctgacgt 15180

aacctgcggc tcggagcagg tctactggtc gttgccagac atgatgcaag accccgtgac 15240

cttccgctcc acgcgccaga tcagcaactt tccggtggtg ggcgccgagc tgttgcccgt 15300

gcactccaag agcttctaca acgaccaggc cgtctactcc caactcatcc gccagtttac 15360

ctctctgacc cacgtgttca atcgctttcc cgagaaccag attttggcgc gcccgccagc 15420

ccccaccatc accaccgtca gtgaaaacgt tcctgctctc acagatcacg ggacgctacc 15480

gctgcgcaac agcatcggag gagtccagcg agtgaccatt actgacgcca gacgccgcac 15540

ctgcccctac gtttacaagg ccctgggcat agtctcgccg cgcgtcctat cgagccgcac 15600

tttttgagca agcatgtcca tccttatatc gcccagcaat aacacaggct ggggcctgcg 15660

cttcccaagc aagatgtttg gcggggccaa gaagcgctcc gaccaacacc cagtgcgcgt 15720

gcgcgggcac taccgcgcgc cctggggcgc gcacaaacgc ggccgcactg ggcgcaccac 15780

cgtcgatgac gccatcgacg cggtggtgga ggaggcgcgc aactacacgc ccacgccgcc 15840

accagtgtcc acagtggacg cggccattca gaccgtggtg cgcggagccc ggcgctatgc 15900

taaaatgaag agacggcgga ggcgcgtagc acgtcgccac cgccgccgac ccggcactgc 15960

cgcccaacgc gcggcggcgg ccctgcttaa ccgcgcacgt cgcaccggcc gacgggcggc 16020

catgcgggcc gctcgaaggc tggccgcggg tattgtcact gtgcccccca ggtccaggcg 16080

acgagcggcc gccgcagcag ccgcggccat tagtgctatg actcagggtc gcaggggcaa 16140

cgtgtattgg gtgcgcgact cggttagcgg cctgcgcgtg cccgtgcgca cccgcccccc 16200

gcgcaactag attgcaagaa aaaactactt agactcgtac tgttgtatgt atccagcggc 16260

ggcggcgcgc aacgaagcta tgtccaagcg caaaatcaaa gaagagatgc tccaggtcat 16320

cgcgccggag atctatggcc ccccgaagaa ggaagagcag gattacaagc cccgaaagct 16380

aaagcgggtc aaaaagaaaa agaaagatga tgatgatgaa cttgacgacg aggtggaact 16440

gctgcacgct accgcgccca ggcgacgggt acagtggaaa ggtcgacgcg taaaacgtgt 16500

tttgcgaccc ggcaccaccg tagtctttac gcccggtgag cgctccaccc gcacctacaa 16560

gcgcgtgtat gatgaggtgt acggcgacga ggacctgctt gagcaggcca acgagcgcct 16620

cggggagttt gcctacggaa agcggcataa ggacatgctg gcgttgccgc tggacgaggg 16680

caacccaaca cctagcctaa agcccgtaac actgcagcag gtgctgcccg cgcttgcacc 16740

gtccgaagaa aagcgcggcc taaagcgcga gtctggtgac ttggcaccca ccgtgcagct 16800

gatggtaccc aagcgccagc gactggaaga tgtcttggaa aaaatgaccg tggaacctgg 16860

gctggagccc gaggtccgcg tgcggccaat caagcaggtg gcgccgggac tgggcgtgca 16920

gaccgtggac gttcagatac ccactaccag tagcaccagt attgccaccg ccacagaggg 16980

catggagaca caaacgtccc cggttgcctc agcggtggcg gatgccgcgg tgcaggcggt 17040

cgctgcggcc gcgtccaaga cctctacgga ggtgcaaacg gacccgtgga tgtttcgcgt 17100

ttcagccccc cggcgcccgc gcggttcgag gaagtacggc gccgccagcg cgctactgcc 17160

cgaatatgcc ctacatcctt ccattgcgcc tacccccggc tatcgtggct acacctaccg 17220

ccccagaaga cgagcaacta cccgacgccg aaccaccact ggaacccgcc gccgccgtcg 17280

ccgtcgccag cccgtgctgg ccccgatttc cgtgcgcagg gtggctcgcg aaggaggcag 17340

gaccctggtg ctgccaacag cgcgctacca ccccagcatc gtttaaaagc cggtctttgt 17400

ggttcttgca gatatggccc tcacctgccg cctccgtttc ccggtgccgg gattccgagg 17460

aagaatgcac cgtaggaggg gcatggccgg ccacggcctg acgggcggca tgcgtcgtgc 17520

gcaccaccgg cggcggcgcg cgtcgcaccg tcgcatgcgc ggcggtatcc tgcccctcct 17580

tattccactg atcgccgcgg cgattggcgc cgtgcccgga attgcatccg tggccttgca 17640

ggcgcagaga cactgattaa aaacaagttg catgtggaaa aatcaaaata aaaagtctgg 17700

actctcacgc tcgcttggtc ctgtaactat tttgtagaat ggaagacatc aactttgcgt 17760

ctctggcccc gcgacacggc tcgcgcccgt tcatgggaaa ctggcaagat atcggcacca 17820

gcaatatgag cggtggcgcc ttcagctggg gctcgctgtg gagcggcatt aaaaatttcg 17880

gttccaccgt taagaactat ggcagcaagg cctggaacag cagcacaggc cagatgctga 17940

gggataagtt gaaagagcaa aatttccaac aaaaggtggt agatggcctg gcctctggca 18000

ttagcggggt ggtggacctg gccaaccagg cagtgcaaaa taagattaac agtaagcttg 18060

atccccgccc tcccgtagag gagcctccac cggccgtgga gacagtgtct ccagaggggc 18120

gtggcgaaaa gcgtccgcgc cccgacaggg aagaaactct ggtgacgcaa atagacgagc 18180

ctccctcgta cgaggaggca ctaaagcaag gcctgcccac cacccgtccc atcgcgccca 18240

tggctaccgg agtgctgggc cagcacacac ccgtaacgct ggacctgcct ccccccgccg 18300

acacccagca gaaacctgtg ctgccaggcc cgaccgccgt tgttgtaacc cgtcctagcc 18360

gcgcgtccct gcgccgcgcc gccagcggtc cgcgatcgtt gcggcccgta gccagtggca 18420

actggcaaag cacactgaac agcatcgtgg gtctgggggt gcaatccctg aagcgccgac 18480

gatgcttctg aatagctaac gtgtcgtatg tgtgtcatgt atgcgtccat gtcgccgcca 18540

gaggagctgc tgagccgccg cgcgcccgct ttccaagatg gctacccctt cgatgatgcc 18600

gcagtggtct tacatgcaca tctcgggcca ggacgcctcg gagtacctga gccccgggct 18660

ggtgcagttt gcccgcgcca ccgagacgta cttcagcctg aataacaagt ttagaaaccc 18720

cacggtggcg cctacgcacg acgtgaccac agaccggtcc cagcgtttga cgctgcggtt 18780

catccctgtg gaccgtgagg atactgcgta ctcgtacaag gcgcggttca ccctagctgt 18840

gggtgataac cgtgtgctgg acatggcttc cacgtacttt gacatccgcg gcgtgctgga 18900

caggggccct acttttaagc cctactctgg cactgcctac aacgccctgg ctcccaaggg 18960

tgccccaaat ccttgcgaat gggatgaagc tgctactgct cttgaaataa acctagaaga 19020

agaggacgat gacaacgaag acgaagtaga cgagcaagct gagcagcaaa aaactcacgt 19080

atttgggcag gcgccttatt ctggtataaa tattacaaag gagggtattc aaataggtgt 19140

cgaaggtcaa acacctaaat atgccgataa aacatttcaa cctgaacctc aaataggaga 19200

atctcagtgg tacgaaactg aaattaatca tgcagctggg agagtcctta aaaagactac 19260

cccaatgaaa ccatgttacg gttcatatgc aaaacccaca aatgaaaatg gagggcaagg 19320

cattcttgta aagcaacaaa atggaaagct agaaagtcaa gtggaaatgc aatttttctc 19380

aactactgag gcgaccgcag gcaatggtga taacttgact cctaaagtgg tattgtacag 19440

tgaagatgta gatatagaaa ccccagacac tcatatttct tacatgccca ctattaagga 19500

aggtaactca cgagaactaa tgggccaaca atctatgccc aacaggccta attacattgc 19560

ttttagggac aattttattg gtctaatgta ttacaacagc acgggtaata tgggtgttct 19620

ggcgggccaa gcatcgcagt tgaatgctgt tgtagatttg caagacagaa acacagagct 19680

ttcataccag cttttgcttg attccattgg tgatagaacc aggtactttt ctatgtggaa 19740

tcaggctgtt gacagctatg atccagatgt tagaattatt gaaaatcatg gaactgaaga 19800

tgaacttcca aattactgct ttccactggg aggtgtgatt aatacagaga ctcttaccaa 19860

ggtaaaacct aaaacaggtc aggaaaatgg atgggaaaaa gatgctacag aattttcaga 19920

taaaaatgaa ataagagttg gaaataattt tgccatggaa atcaatctaa atgccaacct 19980

gtggagaaat ttcctgtact ccaacatagc gctgtatttg cccgacaagc taaagtacag 20040

tccttccaac gtaaaaattt ctgataaccc aaacacctac gactacatga acaagcgagt 20100

ggtggctccc gggttagtgg actgctacat taaccttgga gcacgctggt cccttgacta 20160

tatggacaac gtcaacccat ttaaccacca ccgcaatgct ggcctgcgct accgctcaat 20220

gttgctgggc aatggtcgct atgtgccctt ccacatccag gtgcctcaga agttctttgc 20280

cattaaaaac ctccttctcc tgccgggctc atacacctac gagtggaact tcaggaagga 20340

tgttaacatg gttctgcaga gctccctagg aaatgaccta agggttgacg gagccagcat 20400

taagtttgat agcatttgcc tttacgccac cttcttcccc atggcccaca acaccgcctc 20460

cacgcttgag gccatgctta gaaacgacac caacgaccag tcctttaacg actatctctc 20520

cgccgccaac atgctctacc ctatacccgc caacgctacc aacgtgccca tatccatccc 20580

ctcccgcaac tgggcggctt tccgcggctg ggccttcacg cgccttaaga ctaaggaaac 20640

cccatcactg ggctcgggct acgaccctta ttacacctac tctggctcta taccctacct 20700

agatggaacc ttttacctca accacacctt taagaaggtg gccattacct ttgactcttc 20760

tgtcagctgg cctggcaatg accgcctgct taccccccaac gagtttgaaa ttaagcgctc 20820

agttgacggg gagggttaca acgttgccca gtgtaacatg accaaagact ggttcctggt 20880

acaaatgcta gctaactaca acattggcta ccagggcttc tatatcccag agagctacaa 20940

ggaccgcatg tactccttct ttagaaactt ccagcccatg agccgtcagg tggtggatga 21000

tactaaatac aaggactacc aacaggtggg catcctacac caacacaaca actctggatt 21060

tgttggctac cttgccccca ccatgcgcga aggacaggcc taccctgcta acttccccta 21120

tccgcttata ggcaagaccg cagttgacag cattacccag aaaaagtttc tttgcgatcg 21180

caccctttgg cgcatcccat tctccagtaa ctttatgtcc atgggcgcac tcacagacct 21240

gggccaaaac cttctctacg ccaactccgc ccacgcgcta gacatgactt ttgaggtgga 21300

tcccatggac gagcccaccc ttctttatgt tttgtttgaa gtctttgacg tggtccgtgt 21360

gcaccggccg caccgcggcg tcatcgaaac cgtgtacctg cgcacgccct tctcggccgg 21420

caacgccaca acataaagaa gcaagcaaca tcaacaacag ctgccgccat gggctccagt 21480

gagcaggaac tgaaagccat tgtcaaagat cttggttgtg ggccatattt tttgggcacc 21540

tatgacaagc gctttccagg ctttgtttct ccacacaagc tcgcctgcgc catagtcaat 21600

acggccggtc gcgagactgg gggcgtacac tggatggcct ttgcctggaa cccgcactca 21660

aaaacatgct acctctttga gccctttggc ttttctgacc agcgactcaa gcaggtttac 21720

cagtttgagt acgagtcact cctgcgccgt agcgccattg cttcttcccc cgaccgctgt 21780

ataacgctgg aaaagtccac ccaaagcgta caggggccca actcggccgc ctgtggacta 21840

ttctgctgca tgtttctcca cgcctttgcc aactggcccc aaactcccat ggatcacaac 21900

cccaccatga accttattac cggggtaccc aactccatgc tcaacagtcc ccaggtacag 21960

cccaccctgc gtcgcaacca ggaacagctc tacagcttcc tggagcgcca ctcgccctac 22020

ttccgcagcc acagtgcgca gattaggagc gccacttctt tttgtcactt gaaaaacatg 22080

taaaaataat gtactagaga cactttcaat aaaggcaaat gcttttattt gtacactctc 22140

gggtgattat ttacccccac ccttgccgtc tgcgccgttt aaaaatcaaa ggggttctgc 22200

cgcgcatcgc tatgcgccac tggcagggac acgttgcgat actggtgttt agtgctccac 22260

ttaaactcag gcacaaccat ccgcggcagc tcggtgaagt tttcactcca caggctgcgc 22320

accatcacca acgcgtttag caggtcgggc gccgatatct tgaagtcgca gttggggcct 22380

ccgccctgcg cgcgcgagtt gcgatacaca gggttgcagc actggaacac tatcagcgcc 22440

gggtggtgca cgctggccag cacgctcttg tcggagatca gatccgcgtc caggtcctcc 22500

gcgttgctca gggcgaacgg agtcaacttt ggtagctgcc ttcccaaaaa gggcgcgtgc 22560

ccaggctttg agttgcactc gcaccgtagt ggcatcaaaa ggtgaccgtg cccggtctgg 22620

gcgttaggat acagcgcctg cataaaagcc ttgatctgct taaaagccac ctgagccttt 22680

gcgccttcag agaagaacat gccgcaagac ttgccggaaa actgattggc cggacaggcc 22740

gcgtcgtgca cgcagcacct tgcgtcggtg ttggagatct gcaccacatt tcggccccac 22800

cggttcttca cgatcttggc cttgctagac tgctccttca gcgcgcgctg cccgttttcg 22860

ctcgtcacat ccatttcaat cacgtgctcc ttatttatca taatgcttcc gtgtagacac 22920

ttaagctcgc cttcgatctc agcgcagcgg tgcagccaca acgcgcagcc cgtgggctcg 22980

tgatgcttgt aggtcacctc tgcaaacgac tgcaggtacg cctgcaggaa tcgccccatc 23040

atcgtcacaa aggtcttgtt gctggtgaag gtcagctgca acccgcggtg ctcctcgttc 23100

agccaggtct tgcatacggc cgccagagct tccacttggt caggcagtag tttgaagttc 23160

gcctttagat cgttatccac gtggtacttg tccatcagcg cgcgcgcagc ctccatgccc 23220

ttctcccacg cagacacgat cggcacactc agcgggttca tcaccgtaat ttcactttcc 23280

gcttcgctgg gctcttcctc ttcctcttgc gtccgcatac cacgcgccac tgggtcgtct 23340

tcattcagcc gccgcactgt gcgcttacct cctttgccat gcttgattag caccggtggg 23400

ttgctgaaac ccaccatttg tagcgccaca tcttctcttt cttcctcgct gtccacgatt 23460

acctctggtg atggcgggcg ctcgggcttg ggagaagggc gcttcttttt cttcttgggc 23520

gcaatggcca aatccgccgc cgaggtcgat ggccgcgggc tgggtgtgcg cggcaccagc 23580

gcgtcttgtg atgagtcttc ctcgtcctcg gactcgatac gccgcctcat ccgcttttt 23640

gggggcgccc ggggaggcgg cggcgacggg gacggggacg acacgtcctc catggttggg 23700

ggacgtcgcg ccgcaccgcg tccgcgctcg ggggtggttt cgcgctgctc ctcttcccga 23760

ctggccattt ccttctccta taggcagaaa aagatcatgg agtcagtcga gaagaaggac 23820

agcctaaccg ccccctctga gttcgccacc accgcctcca ccgatgccgc caacgcgcct 23880

accaccttcc ccgtcgaggc acccccgctt gaggaggagg aagtgattat cgagcaggac 23940

ccaggttttg taagcgaaga cgacgaggac cgctcagtac caacagagga taaaaagcaa 24000

gaccaggaca acgcagaggc aaacgaggaa caagtcgggc ggggggacga aaggcatggc 24060

gactacctag atgtgggaga cgacgtgctg ttgaagcatc tgcagcgcca gtgcgccatt 24120

atctgcgacg cgttgcaaga gcgcagcgat gtgcccctcg ccatagcgga tgtcagcctt 24180

gcctacgaac gccacctatt ctcaccgcgc gtaccccca aacgccaaga aaacggcaca 24240

tgcgagccca acccgcgcct caacttctac cccgtatttg ccgtgccaga ggtgcttgcc 24300

acctatcaca tctttttcca aaactgcaag ataccctat cctgccgtgc caaccgcagc 24360

cgagcggaca agcagctggc cttgcggcag ggcgctgtca tacctgatat cgcctcgctc 24420

aacgaagtgc caaaaatctt tgagggtctt ggacgcgacg agaagcgcgc ggcaaacgct 24480

ctgcaacagg aaaacagcga aaatgaaagt cactctggag tgttggtgga actcgagggt 24540

gacaacgcgc gcctagccgt actaaaacgc agcatcgagg tcacccactt tgcctacccg 24600

gcacttaacc tacccccaa ggtcatgagc acagtcatga gtgagctgat cgtgcgccgt 24660

gcgcagcccc tggagaggga tgcaaatttg caagaacaaa cagaggaggg cctacccgca 24720

gttggcgacg agcagctagc gcgctggctt caaacgcgcg agcctgccga cttggaggag 24780

cgacgcaaac taatgatggc cgcagtgctc gttaccgtgg agcttgagtg catgcagcgg 24840

ttctttgctg acccggagat gcagcgcaag ctagaggaaa cattgcacta caccttttcga 24900

cagggctacg tacgccaggc ctgcaagatc tccaacgtgg agctctgcaa cctggtctcc 24960

taccttggaa ttttgcacga aaaccgcctt gggcaaaacg tgcttcattc cacgctcaag 25020

ggcgaggcgc gccgcgacta cgtccgcgac tgcgtttact tatttctatg ctacacctgg 25080

cagacggcca tgggcgtttg gcagcagtgc ttggaggagt gcaacctcaa ggagctgcag 25140

aaactgctaa agcaaaactt gaaggaccta tggacggcct tcaacgagcg ctccgtggcc 25200

gcgcacctgg cggacatcat tttccccgaa cgcctgctta aaaccctgca acagggtctg 25260

ccagacttca ccagtcaaag catgttgcag aactttagga actttatcct agagcgctca 25320

ggaatcttgc ccgccacctg ctgtgcactt cctagcgact ttgtgcccat taagtaccgc 25380

gaatgccctc cgccgctttg gggccactgc taccttctgc agctagccaa ctaccttgcc 25440

taccactctg acataatgga agacgtgagc ggtgacggtc tactggagtg tcactgtcgc 25500

tgcaacctat gcaccccgca ccgctccctg gtttgcaatt cgcagctgct taacgaaagt 25560

caaattatcg gtacctttga gctgcagggt ccctcgcctg acgaaaagtc cgcggctccg 25620

gggttgaaac tcactccggg gctgtggacg tcggcttacc ttcgcaaatt tgtacctgag 25680

gactaccacg cccacgagat taggttctac gaagaccaat cccgcccgcc aaatgcggag 25740

cttaccgcct gcgtcattac ccagggccac attcttggcc aattgcaagc catcaacaaa 25800

gcccgccaag agtttctgct acgaaaggga cgggggggttt acttggaccc ccagtccggc 25860

gaggagctca acccaatccc cccgccgccg cagccctatc agcagcagcc gcgggccctt 25920

gcttcccagg atggcaccca aaaagaagct gcagctgccg ccgccaccca cggacgagga 25980

ggaatactgg gacagtcagg cagaggaggt tttggacgag gaggaggagg acatgatgga 26040

agactgggag agcctagacg aggaagcttc cgaggtcgaa gaggtgtcag acgaaacacc 26100

gtcaccctcg gtcgcattcc cctcgccggc gccccagaaa tcggcaaccg gttccagcat 26160

ggctacaacc tccgctcctc aggcgccgcc ggcactgccc gttcgccgac ccaaccgtag 26220

atgggacacc actggaacca gggccggtaa gtccaagcag ccgccgccgt tagcccaaga 26280

gcaacaacag cgccaaggct accgctcatg gcgcgggcac aagaacgcca tagttgcttg 26340

cttgcaagac tgtgggggca acatctcctt cgcccgccgc tttcttctct accatcacgg 26400

cgtggccttc ccccgtaaca tcctgcatta ctaccgtcat ctctacagcc catactgcac 26460

cggcggcagc ggcagcggca gcaacagcag cggccacaca gaagcaaagg cgaccggata 26520

gcaagactct gacaaagccc aagaaatcca cagcggcggc agcagcagga ggaggagcgc 26580

tgcgtctggc gcccaacgaa cccgtatcga cccgcgagct tagaaacagg atttttccca 26640

ctctgtatgc tatatttcaa cagagcaggg gccaagaaca agagctgaaa ataaaaaaca 26700

ggtctctgcg atccctcacc cgcagctgcc tgtatcacaa aagcgaagat cagcttcggc 26760

gcacgctgga agacgcggag gctctcttca gtaaatactg cgcgctgact cttaaggact 26820

agtttcgcgc cctttctcaa atttaagcgc gaaaactacg tcatctccag cggccacacc 26880

cggcgccagc acctgtcgtc agcgccatta tgagcaagga aattcccacg ccctacatgt 26940

ggagttacca gccacaaatg ggacttgcgg ctggagctgc ccaagactac tcaacccgaa 27000

taaactacat gagcgcggga ccccacatga tatcccgggt caacggaatc cgcgcccacc 27060

gaaaccgaat tctcttggaa caggcggcta ttaccaccac acctcgtaat aaccttaatc 27120

cccgtagttg gcccgctgcc ctggtgtacc aggaaagtcc cgctcccacc actgtggtac 27180

ttcccagaga cgcccaggcc gaagttcaga tgactaactc aggggcgcag cttgcgggcg 27240

gctttcgtca cagggtgcgg tcgcccgggc agggtataac tcacctgaca atcagagggc 27300

gaggtattca gctcaacgac gagtcggtga gctcctcgct tggtctccgt ccggacggga 27360

catttcagat cggcggcgcc ggccgtcctt cattcacgcc tcgtcaggca atcctaactc 27420

tgcagacctc gtcctctgag ccgcgctctg gaggcattgg aactctgcaa tttattgagg 27480

agtttgtgcc atcggtctac tttaacccct tctcgggacc tcccggccac tatccggatc 27540

aatttattcc taactttgac gcggtaaagg actcggcgga cggctacgac tgaatgttaa 27600

gtggagaggc agagcaactg cgcctgaaac acctggtcca ctgtcgccgc cacaagtgct 27660

ttgcccgcga ctccggtgag ttttgctact ttgaattgcc cgaggatcat atcgagggcc 27720

cggcgcacgg cgtccggctt accgcccagg gagagcttgc ccgtagcctg attcgggagt 27780

ttacccagcg ccccctgcta gttgagcggg acaggggacc ctgtgttctc actgtgattt 27840

gcaactgtcc taaccttgga ttacatcaag atctttgttg ccatctctgt gctgagtata 27900

ataaatacag aaattaaaat atactggggc tcctatcgcc atcctgtaaa cgccaccgtc 27960

ttcacccgcc caagcaaacc aaggcgaacc ttacctggta cttttaacat ctctccctct 28020

gtgatttaca acagtttcaa cccagacgga gtgagtctac gagagaacct ctccgagctc 28080

agctactcca tcagaaaaaa caccaccctc cttacctgcc gggaacgtac gagtgcgtca 28140

ccggccgctg caccacacct accgcctgac cgtaaaccag acttttccg gacagacctc 28200

aataactctg tttaccagaa caggaggtga gcttagaaaa cccttagggt attaggccaa 28260

aggcgcagct actgtggggt ttatgaacaa ttcaagcaac tctacgggct attctaattc 28320

aggtttctct agaaatggac ggaattatta cagagcagcg cctgctagaa agacgcaggg 28380

cagcggccga gcaacagcgc atgaatcaag agctccaaga catggttaac ttgcaccagt 28440

gcaaaagggg tatcttttgt ctggtaaagc aggccaaagt cacctacgac agtaatacca 28500

ccggacaccg ccttagctac aagttgccaa ccaagcgtca gaaattggtg gtcatggtgg 28560

gagaaaagcc cattaccata actcagcact cggtagaaac cgaaggctgc attcactcac 28620

cttgtcaagg acctgaggat ctctgcaccc ttattaagac cctgtgcggt ctcaaagatc 28680

ttattccctt taactaataa aaaaaaataa taaagcatca cttacttaaa atcagttagc 28740

aaatttctgt ccagtttatt cagcagcacc tccttgccct cctcccagct ctggtattgc 28800

agcttcctcc tggctgcaaa ctttctccac aatctaaatg gaatgtcagt ttcctcctgt 28860

tcctgtccat ccgcacccac tatcttcatg ttgttgcaga tgaagcgcgc aagaccgtct 28920

gaagatacct tcaaccccgt gtatccatat gacacggaaa ccggtcctcc aactgtgcct 28980

tttcttactc ctccctttgt atcccccaat gggtttcaag agagtccccc tggggtactc 29040

tctttgcgcc tatccgaacc tctagttacc tccaatggca tgcttgcgct caaaatgggc 29100

aacggcctct ctctggacga ggccggcaac cttacctccc aaaatgtaac cactgtgagc 29160

ccacctctca aaaaaaccaa gtcaaacata aacctggaaa tatctgcacc cctcacagtt 29220

acctcagaag ccctaactgt ggctgccgcc gcacctctaa tggtcgcggg caacacactc 29280

accatgcaat cacaggcccc gctaaccgtg cacgactcca aacttagcat tgccacccaa 29340

ggacccctca cagtgtcaga aggaaagcta gccctgcaaa catcaggccc cctcaccacc 29400

accgatagca gtacccttac tatcactgcc tcacccccctc taactactgc cactggtagc 29460

ttgggcattg acttgaaaga gcccatttat acacaaaatg gaaaactagg actaaagtac 29520

ggggctcctt tgcatgtaac agacgaccta aacactttga ccgtagcaac tggtccaggt 29580

gtgactatta ataatacttc cttgcaaact aaagttactg gagccttggg ttttgattca 29640

caaggcaata tgcaacttaa tgtagcagga ggactaagga ttgattctca aaacagacgc 29700

cttatacttg atgttagtta tccgtttgat gctcaaaacc aactaaatct aagactagga 29760

cagggccctc tttttataaa ctcagcccac aacttggata ttaactacaa caaaggcctt 29820

tacttgttta cagcttcaaa caattccaaa aagcttgagg ttaacctaag cactgccaag 29880

gggttgatgt ttgacgctac agccatagcc attaatgcag gagatgggct tgaatttggt 29940

tcacctaatg caccaaacac aaatcccctc aaaacaaaaa ttggccatgg cctagaattt 30000

gattcaaaca aggctatggt tcctaaacta ggaactggcc ttagttttga cagcacaggt 30060

gccattacag taggaaacaa aaataatgat aagctaactt tgtggaccac accagctcca 30120

tctcctaact gtagactaaa tgcagagaaa gatgctaaac tcactttggt cttaacaaaa 30180

tgtggcagtc aaatacttgc tacagtttca gttttggctg ttaaaggcag tttggctcca 30240

atatctggaa cagttcaaag tgctcatctt attataagat ttgacgaaaa tggagtgcta 30300

ctaaacaatt ccttcctgga cccagaatat tggaacttta gaaatggaga tcttactgaa 30360

ggcacagcct atacaaacgc tgttggattt atgcctaacc tatcagctta tccaaaatct 30420

cacggtaaaa ctgccaaaag taacattgtc agtcaagttt acttaaacgg agacaaaact 30480

aaacctgtaa cactaaccat tacactaaac ggtacacagg aaacaggaga cacaactcca 30540

agtgcatact ctatgtcatt ttcatgggac tggtctggcc acaactacat taatgaaata 30600

tttgccacat cctcttacac tttttcatac attgcccaag aataaagaat cgtttgtgtt 30660

atgtttcaac gtgtttattt ttcaattgca gaaaatttcg aatcattttt cattcagtag 30720

tatagcccca ccaccacata gcttatacag atcaccgtac cttaatcaaa ctcacagaac 30780

cctagtattc aacctgccac ctccctccca acacacagag tacacagtcc tttctccccg 30840

gctggcctta aaaagcatca tatcatgggt aacagacata ttcttaggtg ttatattcca 30900

cacggtttcc tgtcgagcca aacgctcatc agtgatatta ataaactccc cgggcagctc 30960

acttaagttc atgtcgctgt ccagctgctg agccacaggc tgctgtccaa cttgcggttg 31020

cttaacgggc ggcgaaggag aagtccacgc ctacatgggg gtagagtcat aatcgtgcat 31080

caggataggg cggtggtgct gcagcagcgc gcgaataaac tgctgccgcc gccgctccgt 31140

cctgcaggaa tacaacatgg cagtggtctc ctcagcgatg attcgcaccg cccgcagcat 31200

aaggcgcctt gtcctccggg cacagcagcg caccctgatc tcacttaaat cagcacagta 31260

actgcagcac agcaccacaa tattgttcaa aatcccacag tgcaaggcgc tgtatccaaa 31320

gctcatggcg gggaccacag aacccacgtg gccatcatac cacaagcgca ggtagattaa 31380

gtggcgaccc ctcataaaca cgctggacat aaacattacc tcttttggca tgttgtaatt 31440

caccacctcc cggtaccata taaacctctg attaaacatg gcgccatcca ccaccatcct 31500

aaaccagctg gccaaaacct gcccgccggc tatacactgc agggaaccgg gactggaaca 31560

atgacagtgg agagcccagg actcgtaacc atggatcatc atgctcgtca tgatatcaat 31620

gttggcacaa cacaggcaca cgtgcataca cttcctcagg attacaagct cctcccgcgt 31680

tagaaccata tcccagggaa caacccattc ctgaatcagc gtaaatccca cactgcaggg 31740

aagacctcgc acgtaactca cgttgtgcat tgtcaaagtg ttacattcgg gcagcagcgg 31800

atgatcctcc agtatggtag cgcgggtttc tgtctcaaaa ggaggtagac gatccctact 31860

gtacggagtg cgccgagaca accgagatcg tgttggtcgt agtgtcatgc caaatggaac 31920

gccggacgta gtcatatttc ctgaagcaaa accaggtgcg ggcgtgacaa acagatctgc 31980

gtctccggtc tcgccgctta gatcgctctg tgtagtagtt gtagtatatc cactctctca 32040

aagcatccag gcgccccctg gcttcgggtt ctatgtaaac tccttcatgc gccgctgccc 32100

tgataacatc caccaccgca gaataagcca cacccagcca acctacacat tcgttctgcg 32160

agtcacacac gggaggagcg ggaagagctg gaagaaccat gtttttttt ttattccaaa 32220

agattatcca aaacctcaaa atgaagatct attaagtgaa cgcgctcccc tccggtggcg 32280

tggtcaaact ctacagccaa agaacagata atggcatttg taagatgttg cacaatggct 32340

tccaaaaggc aaacggccct cacgtccaag tggacgtaaa ggctaaaccc ttcagggtga 32400

atctcctcta taaacattcc agcaccttca accatgccca aataattctc atctcgccac 32460

cttctcaata tatctctaag caaatcccga atattaagtc cggccattgt aaaaatctgc 32520

tccagagcgc cctccacctt cagcctcaag cagcgaatca tgattgcaaa aattcaggtt 32580

cctcacagac ctgtataaga ttcaaaagcg gaacattaac aaaaataccg cgatcccgta 32640

ggtcccttcg cagggccagc tgaacataat cgtgcaggtc tgcacggacc agcgcggcca 32700

cttccccgcc aggaaccttg acaaaagaac ccacactgat tatgacacgc atactcggag 32760

ctatgctaac cagcgtagcc ccgatgtaag ctttgttgca tgggcggcga tataaaatgc 32820

aaggtgctgc tcaaaaaatc aggcaaagcc tcgcgcaaaa aagaaagcac atcgtagtca 32880

tgctcatgca gataaaggca ggtaagctcc ggaaccacca cagaaaaaga caccattttt 32940

ctctcaaaca tgtctgcggg tttctgcata aacacaaaat aaaataacaa aaaaacattt 33000

aaacattaga agcctgtctt acaacaggaa aaacaaccct tataagcata agacggacta 33060

cggccatgcc ggcgtgaccg taaaaaaact ggtcaccgtg attaaaaagc accaccgaca 33120

gctcctcggt catgtccgga gtcataatgt aagactcggt aaacacatca ggttgattca 33180

catcggtcag tgctaaaaag cgaccgaaat agcccggggg aatacatacc cgcaggcgta 33240

gagacaacat tacagccccc ataggaggta taacaaaatt aataggagag aaaaacacat 33300

aaacacctga aaaaccctcc tgcctaggca aaatagcacc ctcccgctcc agaacaacat 33360

acagcgcttc cacagcggca gccataacag tcagccttac cagtaaaaaa gaaaacctat 33420

taaaaaaaca ccactcgaca cggcaccagc tcaatcagtc acagtgtaaa aaagggccaa 33480

gtgcagagcg agtatatata ggactaaaaa atgacgtaac ggttaaagtc cacaaaaaac 33540

acccagaaaa ccgcacgcga acctacgccc agaaacgaaa gccaaaaaac ccacaacttc 33600

ctcaaatcgt cacttccgtt ttcccacgtt acgtcacttc ccattttaag aaaactacaa 33660

ttcccaacac atacaagtta ctccgcccta aaacctacgt cacccgcccc gttcccacgc 33720

cccgcgccac gtcacaaact ccacccccctc attatcatat tggcttcaat ccaaaataag 33780

gtatattatt gatgatgtta attaagggcg gccgcacggg ccatcgatgg ggatccatcc 33840

gcggagaagc ttctcgacca attctcatgt ttgacagctt atcatcgaat ttctgccatt 33900

catccgctta ttatcactta ttcaggcgta gcaaccaggc gtttaagggc accaataact 33960

gccttaaaaa aattacgccc cgccctgcca ctcatcgcag tactgttgta attcattaag 34020

cattctgccg acatggaagc catcacagac ggcatgatga acctgaatcg ccagcggcat 34080

cagcaccttg tcgccttgcg tataatattt gcccatggtg aaaacggggg cgaagaagtt 34140

gtccatattg gccacgttta aatcaaaact ggtgaaactc acccagggat tggctgagac 34200

gaaaaacata ttctcaataa acccctttagg gaaataggcc aggttttcac cgtaacacgc 34260

cacatcttgc gaatatatgt gtagaaactg ccggaaatcg tcgtggtatt cactccagag 34320

cgatgaaaac gtttcagttt gctcatggaa aacggtgtaa caagggtgaa cactatccca 34380

tatcaccagc tcaccgtctt tcattgccat acggaattcc ggatgagcat tcatcaggcg 34440

ggcaagaatg tgaataaagg ccggataaaa cttgtgctta tttttcttta cggtctttaa 34500

aaaggccgta atatccagct gaacggtctg gttataggta cattgagcaa ctgactgaaa 34560

tgcctcaaaa tgttctttac gatgccattg ggatatatca acggtggtat atccagtgat 34620

ttttttctcc attttagctt ccttagctcc tgaaaatctc gataactcaa aaaatacgcc 34680

cggtagtgat cttatttcat tatggtgaaa gttggaacct cttacgtgcc gatcaacgtc 34740

tcattttcgc caaaagttgg cccagggctt cccggtatca acagggacac caggatttat 34800

ttattctgcg aagtgatctt ccgtcacagg tatttattcg cgataagctc atggagcggc 34860

gtaaccgtcg cacaggaagg acagagaaag cgcggatctg ggaagtgacg gacagaacgg 34920

tcaggacctg gattggggag gcggttgccg ccgctgctgc tgacggtgtg acgttctctg 34980

ttccggtcac accacatacg ttccgccatt cctatgcgat gcacatgctg tatgccggta 35040

taccgctgaa agttctgcaa agcctgatgg gacataagtc catcagttca acggaagtct 35100

acacgaaggt ttttgcgctg gatgtggctg cccggcaccg ggtgcagttt gcgatgccgg 35160

agtctgatgc ggttgcgatg ctgaaacaat tatcctgaga ataaatgcct tggcctttat 35220

atggaaatgt ggaactgagt ggatatgctg tttttgtctg ttaaacagag aagctggctg 35280

ttatccactg agaagcgaac gaaacagtcg ggaaaatctc ccattatcgt agagatccgc 35340

attattaatc tcaggagcct gtgtagcgtt tataggaagt agtgttctgt catgatgcct 35400

gcaagcggta acgaaaacga tttgaatatg ccttcaggaa caatagaaat cttcgtgcgg 35460

tgttacgttg aagtggagcg gattatgtca gcaatggaca gaacaaccta atgaacacag 35520

aaccatgatg tggtctgtcc ttttacagcc agtaggctcg ccgcagtcga gcgacggcga 35580

agccctcgag tgagcgagga agcaccaggg aacagcactt atatattctg cttacacacg 35640

atgcctgaaa aaacttccct tggggttatc cacttatcca cggggatatt tttataatta 35700

tttttttat agtttttaga tcttcttttt tagagcgcct tgtaggcctt tatccatgct 35760

ggttctagag aaggtgttgt gacaaattgc cctttcagtg tgacaaatca ccctcaaatg 35820

acagtcctgt ctgtgacaaa ttgcccttaa ccctgtgaca aattgccctc agaagaagct 35880

gttttttcac aaagttatcc ctgcttattg actcttttt atttagtgtg acaatctaaa 35940

aacttgtcac acttcacatg gatctgtcat ggcggaaaca gcggttatca atcacaagaa 36000

acgtaaaaat agcccgcgaa tcgtccagtc aaacgacctc actgaggcgg catatagtct 36060

ctcccgggat caaaaacgta tgctgtatct gttcgttgac cagatcagaa aatctgatgg 36120

caccctacag gaacatgacg gtatctgcga gatccatgtt gctaaatatg ctgaaatatt 36180

cggattgacc tctgcggaag ccagtaagga tatacggcag gcattgaaga gtttcgcggg 36240

gaaggaagtg gttttttatc gccctgaaga ggatgccggc gatgaaaaag gctatgaatc 36300

ttttccttgg tttatcaaac gtgcgcacag tccatccaga gggctttaca gtgtacatat 36360

caacccatat ctcattccct tctttatcgg gttacagaac cggtttacgc agtttcggct 36420

tagtgaaaca aaagaaatca ccaatccgta tgccatgcgt ttatacgaat ccctgtgtca 36480

gtatcgtaag ccggatggct caggcatcgt ctctctgaaa atcgactgga tcatagagcg 36540

ttaccagctg cctcaaagtt accagcgtat gcctgacttc cgccgccgct tcctgcaggt 36600

ctgtgttaat gagatcaaca gcagaactcc aatgcgcctc tcatacattg agaaaaagaa 36660

aggccgccag acgactcata tcgtattttc cttccgcgat atcacttcca tgacgacagg 36720

atagtctgag ggttatctgt cacagatttg agggtggttc gtcacatttg ttctgaccta 36780

ctgagggtaa tttgtcacag ttttgctgtt tccttcagcc tgcatggatt ttctcatact 36840

ttttgaactg taatttttaa ggaagccaaa tttgagggca gtttgtcaca gttgatttcc 36900

ttctctttcc cttcgtcatg tgacctgata tcgggggtta gttcgtcatc attgatgagg 36960

gttgattatc acagtttatt actctgaatt ggctatccgc gtgtgtacct ctacctggag 37020

tttttcccac ggtggatatt tcttcttgcg ctgagcgtaa gagctatctg acagaacagt 37080

tcttctttgc ttcctcgcca gttcgctcgc tatgctcggt tacacggctg cggcgagcgc 37140

tagtgataat aagtgactga ggtatgtgct cttcttatct ccttttgtag tgttgctctt 37200

attttaaaca actttgcggt tttttgatga ctttgcgatt ttgttgttgc tttgcagtaa 37260

attgcaagat ttaataaaaa aacgcaaagc aatgattaaa ggatgttcag aatgaaactc 37320

atggaaacac ttaaccagtg cataaacgct ggtcatgaaa tgacgaaggc tatcgccatt 37380

gcacagttta atgatgacag cccggaagcg aggaaaataa cccggcgctg gagaataggt 37440

gaagcagcgg atttagttgg ggtttcttct caggctatca gagatgccga gaaagcaggg 37500

cgactaccgc acccggatat ggaaattcga ggacgggttg agcaacgtgt tggttataca 37560

attgaacaaa ttaatcatat gcgtgatgtg tttggtacgc gattgcgacg tgctgaagac 37620

gtatttccac cggtgatcgg ggttgctgcc cataaaggtg gcgtttacaa aacctcagtt 37680

tctgttcatc ttgctcagga tctggctctg aaggggctac gtgttttgct cgtggaaggt 37740

aacgaccccc agggaacagc ctcaatgtat cacggatggg taccagatct tcatattcat 37800

gcagaagaca ctctcctgcc tttctatctt ggggaaaagg acgatgtcac ttatgcaata 37860

aagcccactt gctggccggg gcttgacatt attccttcct gtctggctct gcaccgtatt 37920

gaaactgagt taatgggcaa atttgatgaa ggtaaactgc ccaccgatcc acacctgatg 37980

ctccgactgg ccattgaaac tgttgctcat gactatgatg tcatagttat tgacagcgcg 38040

cctaacctgg gtatcggcac gattaatgtc gtatgtgctg ctgatgtgct gattgttccc 38100

acgcctgctg agttgtttga ctacacctcc gcactgcagt ttttcgatat gcttcgtgat 38160

ctgctcaaga acgttgatct taaagggttc gagcctgatg tacgtatttt gcttaccaaa 38220

tacagcaata gtaatggctc tcagtccccg tggatggagg agcaaattcg ggatgcctgg 38280

ggaagcatgg ttctaaaaaa tgttgtacgt gaaacggatg aagttggtaa aggtcagatc 38340

cggatgagaa ctgtttttga acaggccatt gatcaacgct cttcaactgg tgcctggaga 38400

aatgctcttt ctatttggga acctgtctgc aatgaaattt tcgatcgtct gattaaacca 38460

cgctgggaga ttagataatg aagcgtgcgc ctgttattcc aaaacatacg ctcaatactc 38520

aaccggttga agatacttcg ttatcgacac cagctgcccc gatggtggat tcgttaattg 38580

cgcgcgtagg agtaatggct cgcggtaatg ccattacttt gcctgtatgt ggtcgggatg 38640

tgaagtttac tcttgaagtg ctccggggtg atagtgttga gaagacctct cgggtatggt 38700

caggtaatga acgtgaccag gagctgctta ctgaggacgc actggatgat ctcatccctt 38760

cttttctact gactggtcaa cagacaccgg cgttcggtcg aagagtatct ggtgtcatag 38820

aaattgccga tgggagtcgc cgtcgtaaag ctgctgcact taccgaaagt gattatcgtg 38880

ttctggttgg cgagctggat gatgagcaga tggctgcatt atccagattg ggtaacgatt 38940

atcgcccaac aagtgcttat gaacgtggtc agcgttatgc aagccgattg cagaatgaat 39000

ttgctggaaa tatttctgcg ctggctgatg cggaaaatat ttcacgtaag attattaccc 39060

gctgtatcaa caccgccaaa ttgcctaaat cagttgttgc tctttttttct caccccggtg 39120

aactatctgc ccggtcaggt gatgcacttc aaaaagcctt tacagataaa gaggaattac 39180

ttaagcagca ggcatctaac cttcatgagc agaaaaaagc tggggtgata tttgaagctg 39240

aagaagttat cactctttta acttctgtgc ttaaaacgtc atctgcatca agaactagtt 39300

taagctcacg acatcagttt gctcctggag cgacagtatt gtataagggc gataaaatgg 39360

tgcttaacct ggacaggtct cgtgttccaa ctgagtgtat agagaaaatt gaggccattc 39420

ttaaggaact tgaaaagcca gcaccctgat gcgaccacgt tttagtctac gtttatctgt 39480

ctttacttaa tgtcctttgt tacaggccag aaagcataac tggcctgaat attctctctg 39540

ggcccactgt tccacttgta tcgtcggtct gataatcaga ctgggaccac ggtcccactc 39600

gtatcgtcgg tctgattatt agtctgggac cacggtccca ctcgtatcgt cggtctgatt 39660

attagtctgg gaccacggtc ccactcgtat cgtcggtctg ataatcagac tgggaccacg 39720

gtcccactcg tatcgtcggt ctgattatta gtctgggacc atggtcccac tcgtatcgtc 39780

ggtctgatta ttagtctggg accacggtcc cactcgtatc gtcggtctga ttattagtct 39840

ggaaccacgg tcccactcgt atcgtcggtc tgattattag tctgggacca cggtcccact 39900

cgtatcgtcg gtctgattat tagtctggga ccacgatccc actcgtgttg tcggtctgat 39960

tatcggtctg ggaccacggt cccacttgta ttgtcgatca gactatcagc gtgagactac 40020

gattccatca atgcctgtca agggcaagta ttgacatgtc gtcgtaacct gtagaacgga 40080

gtaacctcgg tgtgcggttg tatgcctgct gtggattgct gctgtgtcct gcttatccac 40140

aacattttgc gcacggttat gtggacaaaa tacctggtta cccaggccgt gccggcacgt 40200

taaccgggct gcatccgatg caagtgtgtc gctgtcgagt tttcgggggа gtccagggtt 40260

ttcccagtca cgacgttgta aaacgacggc cagtgaattc gagctcggta cccggggatc 40320

tt 40322

<210> 12
<211> 43324
<212> DNA
<213> Artificial

<220>
<223> synthetic

<400> 12
gaagttccta ttccgaagtt cctattctct agaaagtata ggaacttcct taagtgagtc 60

gtattacgga ctggccgtcg ttttacaacg tcgtgactgg gaaaaccctg gcgttaccca 120

acttaatcgc cttgcagcac atccccctttt cgccagctgg cgtaatagcg aagaggcccg 180

caccgatcgc ccttcccaac agttgcgcag cctgaatggc gaatggcgct tcgcttggta 240

agctagctaa ggcttaagga ggacaatcat ggcaacagtt aaccagctgg tacgcaaacc 300

acgtgctcgc aaagttgcga aaagcaacgt gcctgcgctg gaagcatgcc cgcaaaaacg 360

tggcgtatgt actcgtgtat atactaccac tcctaaaaaa ccgaactccg cgctgcgtaa 420

agtatgccgt gttcgtctgt ctaacggttt cgaagtgact tcctacatcg gtggtgaagg 480

tcacaacctg caggagcact ccgtgatcct gatccgtggc ggtcgtgtta aagacctccc 540

gggtgttcgt taccacaccg tacgtggtgc gcttgactgc tccggcgtta aagaccgtaa 600

gcaggctcgt tccaagtatg gcgtgaagcg tcctaaggct taactagcac gcgccatgtc 660

agccgttaag tgttcctgtg tcactcaaaa ttgctttgag aggctctaag ggcttctcag 720

tgcgttacat ccctggcttg ttgtccacaa ccgttaaacc ttaaaagctt taaaagcctt 780

atatattctt ttttttctta taaaacttaa aaccttagag gctatttaag ttgctgattt 840

atattaattt tattgttcaa acatgagagc ttagtacgtg aaacatgaga gcttagtacg 900

ttagccatga gagcttagta cgttagccat gagggtttag ttcgttaaac atgagagctt 960

agtacgttaa acatgagagc ttagtacgtg aaacatgaga gcttagtacg tactatcaac 1020

aggttgaact gctgatcttc agatcctcta cgccggacgc atcgtggccg gatccgattt 1080

attcaacaaa gccacgttgt gtctcaaaat ctctgatgtt acattgcaca agataaaaat 1140

atatcatcat gaacaataaa actgtctgct tacataaaca gtaatacaag gggtgttatg 1200

agccatattc aacgggaaac gtcttgctcg aggccgcgat taaattccaa catggatgct 1260

gatttatatg ggtataaatg ggctcgcgat aatgtcgggc aatcaggtgc gacaatctat 1320

cgattgtatg ggaagcccga tgcgccagag ttgtttctga aacatggcaa aggtagcgtt 1380

gccaatgatg ttacagatga gatggtcaga ctaaactggc tgacggaatt tatgcctctt 1440

ccgaccatca agcattttat ccgtactcct gatgatgcat ggttactcac cactgcgatc 1500

cccgggaaaa cagcattcca ggtattagaa gaatatcctg attcaggtga aaatattgtt 1560

gatgcgctgg cagtgttcct gcgccggttg cattcgattc ctgtttgtaa ttgtcctttt 1620

aacagcgatc gcgtatttcg tctcgctcag gcgcaatcac gaatgaataa cggtttggtt 1680

gatgcgagtg attttgatga cgagcgtaat ggctggcctg ttgaacaagt ctggaaagaa 1740

atgcataagc ttttgccatt ctcaccggat tcagtcgtca ctcatggtga tttctcactt 1800

gataacctta tttttgacga ggggaaatta taggttgta ttgatgttgg acgagtcgga 1860

atcgcagacc gataccagga tcttgccatc ctatggaact gcctcggtga gttttctcct 1920

tcattacaga aacggctttt tcaaaaatat ggtattgata atcctgatat gaataaattg 1980

cagtttcatt tgatgctcga tgagtttttc taatcagaat tggttaattg gttgtaacac 2040

tggcttaatt aacatcatca ataatatacc ttattttgga ttgaagccaa tatgataatg 2100

agggggtgga gtttgtgacg tggcgcgggg cgtgggaacg gggcgggtga cgtagtagtg 2160

tggcggaagt gtgatgttgc aagtgtggcg gaacacatgt aagcgacgga tgtggcaaaa 2220

gtgacgtttt tggtgtgcgc cggtgtacac aggaagtgac aattttcgcg cggttttagg 2280

cggatgttgt agtaaatttg ggcgtaaccg agtaagattt ggccattttc gcgggaaaac 2340

tgaataagag gaagtgaaat ctgaataatt ttgtgttact catagcgcgt aatactggta 2400

ccccccagtg gcaagacgcg caggcaaaac gcaccacgac tggatccgaa ttcgaagacc 2460

acggtgtttc gtcctttcca caagatatat aaagccaaga aatcgaaata ctttcaagtt 2520

acggtaagca tatgatagtc cattttaaaa cataatttta aaactgcaaa ctacccaaga 2580

aattattact ttctacgtca cgtattttgt actaatatct ttgtgtttac agtcaaatta 2640

attctaatta tctttctaac agccttgtat cgtatatgca aatatgaagg aatcatggga 2700

aataggccct cttcctgccc gaccttggcg cgcgctcggc gcgcggtcac gctccgtcac 2760

gtggtgcgtt ttgcctgcgc gtcttgccac tgggggggtac cccgaatcac tagatctgag 2820

ctcggcctgg tgatgatggc gggatcgttg tatatttctt gacacctttt cggcatcgcc 2880

ctaaaattcg gcgtcctcat attgtgtgag gacgttttat tacgtgttta cgaagcaaaa 2940

gctaaaacca ggagctattt aatggcaaca accggtacca tgattacgcc aagctacgta 3000

atacgactca ctagtggaag ttcctattct ctagaaagta taggaacttc cttaagtgag 3060

tcgtattacg gactggccgt cgttttacaa cgtcgtgact gggaaaaccc tggcgttacc 3120

caacttaatc gccttgcagc acatcccccc ttcgccagct ggcgtaatag cgaagaggcc 3180

cgcaccgatc gcccttccca acagttgcgc agcctgaatg gcgaatggcg cttcgcttgg 3240

taagctagct aaggcttaag gaggacaatc atggcaacag ttaaccagct ggtacgcaaa 3300

ccacgtgctc gcaaagttgc gaaaagcaac gtgcctgcgc tggaagcatg cccgcaaaaa 3360

cgtggcgtat gtactcgtgt atatactacc actcctaaaa aaccgaactc cgcgctgcgt 3420

aaagtatgcc gtgttcgtct gtctaacggt ttcgaagtga cttcctacat cggtggtgaa 3480

ggtcacaacc tgcaggagca ctccgtgatc ctgatccgtg gcggtcgtgt taaagacctc 3540

ccgggtgttc gttaccacac cgtacgtggt gcgcttgact gctccggcgt taaagaccgt 3600

aagcaggctc gttccaagta tggcgtgaag cgtcctaagg cttaactagc acgcgccatg 3660

tcagccgtta agtgttcctg tgtcactcaa aattgctttg agaggctcta agggcttctc 3720

agtgcgttac atccctggct tgttgtccac aaccgttaaa ccttaaaagc tttaaaagcc 3780

ttatatattc ttttttttct tataaaactt aaaaccttag aggctattta agttgctgat 3840

ttatattaat tttattgttc aaacatgaga gcttagtacg tgaaacatga gagcttagta 3900

cgttagccat gagagcttag tacgttagcc atgagggttt agttcgttaa acatgagagc 3960

ttagtacgtt aaacatgaga gcttagtacg tgaaacatga gagcttagta cgtactatca 4020

acaggttgaa ctgctgatct tcagatcctc tacgccggac gcatcgtggc cggatccgat 4080

ttattcaaca aagccacgtt gtgtctcaaa atctctgatg ttacattgca caagataaaa 4140

atatatcatc atgaacaata aaactgtctg cttacataaa cagtaataca aggggtgtta 4200

tgagccatat tcaacgggaa acgtcttgct cgaggccgcg attaaattcc aacatggatg 4260

ctgatttata tgggtataaa tgggctcgcg ataatgtcgg gcaatcaggt gcgacaatct 4320

atcgattgta tgggaagccc gatgcgccag agttgtttct gaaacatggc aaaggtagcg 4380

ttgccaatga tgttacagat gagatggtca gactaaactg gctgacggaa tttatgcctc 4440

ttccgaccat caagcatttt atccgtactc ctgatgatgc atggttactc accactgcga 4500

tccccgggaa aacagcattc caggtattag aagaatatcc tgattcaggt gaaaatattg 4560

ttgatgcgct ggcagtgttc ctgcgccggt tgcattcgat tcctgtttgt aattgtcctt 4620

ttaacagcga tcgcgtattt cgtctcgctc aggcgcaatc acgaatgaat aacggtttgg 4680

ttgatgcgag tgattttgat gacgagcgta atggctggcc tgttgaacaa gtctggaaag 4740

aaatgcataa gcttttgcca ttctcaccgg attcagtcgt cactcatggt gatttctcac 4800

ttgataacct tatttttgac gaggggaaat taataggttg tattgatgtt ggacgagtcg 4860

gaatcgcaga ccgataccag gatcttgcca tcctatggaa ctgcctcggt gagttttctc 4920

cttcattaca gaaacggctt tttcaaaaat atggtattga taatcctgat atgaataaat 4980

tgcagtttca tttgatgctc gatgagtttt tctaatcaga attggttaat tggttgtaac 5040

actggcttaa ttaacatcat caataatata ccttattttg gattgaagcc aatatgataa 5100

tgaggggtg gagtttgtga cgtggcgcgg ggcgtgggaa cggggcgggt gacgtagtag 5160

tgtggcggaa gtgtgatgtt gcaagtgtgg cggaacacat gtaagcgacg gatgtggcaa 5220

aagtgacgtt tttggtgtgc gccggtgtac acaggaagtg acaattttcg cgcggtttta 5280

ggcggatgtt gtagtaaatt tgggcgtaac cgagtaagat ttggccattt tcgcgggaaa 5340

actgaataag aggaagtgaa atctgaataa ttttgtgtta ctcatagcgc gtaatactgg 5400

taccccccag tggcaagacg cgcaggcaaa acgcaccacg actggatccg aattcgaaga 5460

ccacggtgtt tcgtcctttc cacaagatat ataaagccaa gaaatcgaaa tactttcaag 5520

ttacggtaag catatgatag tccattttaa aacataattt taaaactgca aactacccaa 5580

gaaattatta ctttctacgt cacgtatttt gtactaatat ctttgtgttt acagtcaaat 5640

taattctaat tatctttcta acagccttgt atcgtatatg caaatatgaa ggaatcatgg 5700

gaaataggcc ctcttcctgc ccgaccttgg cgcgcgctcg gcgcgcggtc acgctccgtc 5760

acgtggtgcg ttttgcctgc gcgtcttgcc actggggggt accccgaatc actagatctg 5820

agctcggcct ggtgatgatg gcgggatcgt tgtatatttc ttgacacctt ttcggcatcg 5880

ccctaaaatt cggcgtcctc atattgtgtg aggacgtttt attacgtgtt tacgaagcaa 5940

aagctaaaac caggagctat ttaatggcaa caaccggtac catgattacg ccaagctacg 6000

taatacgact cactagtgga agttcctatt ctctagaaag tataggaact tcagagcgct 6060

tttgaagctg gggtgggcga agaactccag catgagatcc ccagagcgct tttgaagctg 6120

cgtttaaacg cgatatcccg ggagctcccg atatcgcgtt taaacgcagc ttggcgtaat 6180

catggtcata gctgtttcct gtgtgaaatt gttatccgct cacaattcca cacaacatac 6240

gagccggaag actgaaatgt gtgggcgtgg cttaagggtg ggaaagaata tataaggtgg 6300

gggtcttatg tagttttgta tctgttttgc agcagccgcc gccgccatga gcaccaactc 6360

gtttgatgga agcattgtga gctcatattt gacaacgcgc atgccccat gggccggggt 6420

gcgtcagaat gtgatgggct ccagcattga tggtcgcccc gtcctgcccg caaactctac 6480

taccttgacc tacgagaccg tgtctggaac gccgttggag actgcagcct ccgccgccgc 6540

ttcagccgct gcagccaccg cccgcgggat tgtgactgac tttgctttcc tgagcccgct 6600

tgcaagcagt gcagcttccc gttcatccgc ccgcgatgac aagttgacgg ctcttttggc 6660

acaattggat tctttgaccc gggaacttaa tgtcgtttct cagcagctgt tggatctgcg 6720

ccagcaggtt tctgccctga aggcttcctc ccctcccaat gcggtttaaa acataaataa 6780

aaaaccagac tctgtttgga tttggatcaa gcaagtgtct tgctgtcttt atttaggggt 6840

tttgcgcgcg cggtaggccc gggaccagcg gtctcggtcg ttgagggtcc tgtgtatttt 6900

ttccaggacg tggtaaaggt gactctggat gttcagatac atgggcataa gcccgtctct 6960

ggggtggagg tagcaccact gcagagcttc atgctgcggg gtggtgttgt agatgatcca 7020

gtcgtagcag gagcgctggg cgtggtgcct aaaaatgtct ttcagtagca agctgattgc 7080

caggggcagg cccttggtgt aagtgtttac aaagcggtta agctgggatg ggtgcatacg 7140

tggggatatg agatgcatct tggactgtat ttttaggttg gctatgttcc cagccatatc 7200

cctccgggga ttcatgttgt gcagaaccac cagcacagtg tatccggtgc acttgggaaa 7260

tttgtcatgt agcttagaag gaaatgcgtg gaagaacttg gagacgccct tgtgacctcc 7320

aagattttcc atgcattcgt ccataatgat ggcaatgggc ccacgggcgg cggcctgggc 7380

gaagatattt ctgggatcac taacgtcata gttgtgttcc aggatgagat cgtcataggc 7440

cattttaca aagcgcgggc ggagggtgcc agactgcggt ataatggttc catccggccc 7500

aggggcgtag ttaccctcac agatttgcat ttcccacgct ttgagttcag atgggggat 7560

catgtctacc tgcggggcga tgaagaaaac ggtttccggg gtaggggaga tcagctggga 7620

agaaagcagg ttcctgagca gctgcgactt accgcagccg gtgggcccgt aaatcacacc 7680

tattaccggg tgcaactggt agttaagaga gctgcagctg ccgtcatccc tgagcagggg 7740

ggccacttcg ttaagcatgt ccctgactcg catgttttcc ctgaccaaat ccgccagaag 7800

gcgctcgccg cccagcgata gcagttcttg caaggaagca aagtttttca acggtttgag 7860

accgtccgcc gtaggcatgc ttttgagcgt ttgaccaagc agttccaggc ggtcccacag 7920

ctcggtcacc tgctctacgg catctcgatc cagcatatct cctcgtttcg cgggttgggg 7980

cggctttcgc tgtacggcag tagtcggtgc tcgtccagac gggccagggt catgtctttc 8040

cacgggcgca gggtcctcgt cagcgtagtc tgggtcacgg tgaaggggtg cgctccgggc 8100

tgcgcgctgg ccagggtgcg cttgaggctg gtcctgctgg tgctgaagcg ctgccggtct 8160

tcgccctgcg cgtcggccag gtagcatttg accatggtgt catagtccag cccctccgcg 8220

gcgtggccct tggcgcgcag cttgcccttg gaggaggcgc cgcacgaggg gcagtgcaga 8280

cttttgaggg cgtagagctt gggcgcgaga aataccgatt ccggggagta ggcatccgcg 8340

ccgcaggccc cgcagacggt ctcgcattcc acgagccagg tgagctctgg ccgttcgggg 8400

tcaaaaacca ggtttccccc atgcttttg atgcgtttct tacctctggt ttccatgagc 8460

cggtgtccac gctcggtgac gaaaaggctg tccgtgtccc cgtatacaga cttgagaggc 8520

ctgtcctcga gcggtgttcc gcggtcctcc tcgtatagaa actcggacca ctctgagaca 8580

aaggctcgcg tccaggccag cacgaaggag gctaagtggg aggggtagcg gtcgttgtcc 8640

actaggggt ccactcgctc cagggtgtga agacacatgt cgccctcttc ggcatcaagg 8700

aaggtgattg gtttgtaggt gtaggccacg tgaccgggtg ttcctgaagg ggggctataa 8760

aaggggtgg gggcgcgttc gtcctcactc tcttccgcat cgctgtctgc gagggccagc 8820

tgttggggtg agtactccct ctgaaaagcg ggcatgactt ctgcgctaag attgtcagtt 8880

tccaaaaacg aggaggattt gatattcacc tggcccgcgg tgatgccttt gagggtggcc 8940

gcatccatct ggtcagaaaa gacaatcttt ttgttgtcaa gcttggtggc aaacgacccg 9000

tagagggcgt tggacagcaa cttggcgatg gagcgcaggg tttggttttt gtcgcgatcg 9060

gcgcgctcct tggccgcgat gtttagctgc acgtattcgc gcgcaacgca ccgccattcg 9120

ggaaagacgg tggtgcgctc gtcgggcacc aggtgcacgc gccaaccgcg gttgtgcagg 9180

gtgacaaggt caacgctggt ggctacctct ccgcgtaggc gctcgttggt ccagcagagg 9240

cggccgccct tgcgcgagca gaatggcggt aggggggtcta gctgcgtctc gtccgggggg 9300

tctgcgtcca cggtaaagac cccgggcagc aggcgcgcgt cgaagtagtc tatcttgcat 9360

ccttgcaagt ctagcgcctg ctgccatgcg cgggcggcaa gcgcgcgctc gtatgggttg 9420

agtgggggac cccatggcat ggggtgggtg agcgcggagg cgtacatgcc gcaaatgtcg 9480

taaacgtaga ggggctctct gagtattcca agatatgtag ggtagcatct tccaccgcgg 9540

atgctggcgc gcacgtaatc gtatagttcg tgcgagggag cgaggaggtc gggaccgagg 9600

ttgctacggg cgggctgctc tgctcggaag actatctgcc tgaagatggc atgtgagttg 9660

gatgatatgg ttggacgctg gaagacgttg aagctggcgt ctgtgagacc taccgcgtca 9720

cgcacgaagg aggcgtagga gtcgcgcagc ttgttgacca gctcggcggt gacctgcacg 9780

tctagggcgc agtagtccag ggtttccttg atgatgtcat acttatcctg tccctttttt 9840

ttccacagct cgcggttgag gacaaactct tcgcggtctt tccagtactc ttggatcgga 9900

aacccgtcgg cctccgaacg gtaagagcct agcatgtaga actggttgac ggcctggtag 9960

gcgcagcatc ccttttctac gggtagcgcg tatgcctgcg cggccttccg gagcgaggtg 10020

tgggtgagcg caaaggtgtc cctgaccatg actttgaggt actggtattt gaagtcagtg 10080

tcgtcgcatc cgccctgctc ccagagcaaa aagtccgtgc gctttttgga acgcggattt 10140

ggcagggcga aggtgacatc gttgaagagt atctttcccg cgcgaggcat aaagttgcgt 10200

gtgatgcgga agggtcccgg cacctcggaa cggttgttaa ttacctgggc ggcgagcacg 10260

atctcgtcaa agccgttgat gttgtggccc acaatgtaaa gttccaagaa gcgcgggatg 10320

cccttgatgg aaggcaattt tttaagttcc tcgtaggtga gctcttcagg ggagctgagc 10380

ccgtgctctg aaagggccca gtctgcaaga tgagggttgg aagcgacgaa tgagctccac 10440

aggtcacggg ccattagcat ttgcaggtgg tcgcgaaagg tcctaaactg gcgacctatg 10500

gccatttttt ctggggtgat gcagtagaag gtaagcgggt cttgttccca gcggtcccat 10560

ccaaggttcg cggctaggtc tcgcgcggca gtcactagag gctcatctcc gccgaacttc 10620

atgaccagca tgaagggcac gagctgcttc ccaaaggccc ccatccaagt ataggtctct 10680

acatcgtagg tgacaaagag acgctcggtg cgaggatgcg agccgatcgg gaagaactgg 10740

atctcccgcc accaattgga ggagtggcta ttgatgtggt gaaagtagaa gtccctgcga 10800

cgggccgaac actcgtgctg gcttttgtaa aaacgtgcgc agtactggca gcggtgcacg 10860

ggctgtacat cctgcacgag gttgacctga cgaccgcgca caaggaagca gagtgggaat 10920

ttgagcccct cgcctggcgg gtttggctgg tggtcttcta cttcggctgc ttgtccttga 10980

ccgtctggct gctcgagggg agttacggtg gatcggacca ccacgccgcg cgagcccaaa 11040

gtccagatgt ccgcgcgcgg cggtcggagc ttgatgacaa catcgcgcag atgggagctg 11100

tccatggtct ggagctcccg cggcgtcagg tcaggcggga gctcctgcag gtttacctcg 11160

catagacggg tcagggcgcg ggctagatcc aggtgatacc taatttccag gggctggttg 11220

gtggcggcgt cgatggcttg caagaggccg catccccgcg gcgcgactac ggtaccgcgc 11280

ggcgggcggt gggccgcggg ggtgtccttg gatgatgcat ctaaaagcgg tgacgcgggc 11340

gagcccccgg aggtaggggg ggctccggac ccgccgggag agggggcagg ggcacgtcgg 11400

cgccgcgcgc gggcaggagc tggtgctgcg cgcgtaggtt gctggcgaac gcgacgacgc 11460

ggcggttgat ctcctgaatc tggcgcctct gcgtgaagac gacgggcccg gtgagcttga 11520

gcctgaaaga gagttcgaca gaatcaattt cggtgtcgtt gacggcggcc tggcgcaaaa 11580

tctcctgcac gtctcctgag ttgtcttgat aggcgatctc ggccatgaac tgctcgatct 11640

cttcctcctg gagatctccg cgtccggctc gctccacggt ggcggcgagg tcgttggaaa 11700

tgcgggccat gagctgcgag aaggcgttga ggcctccctc gttccagacg cggctgtaga 11760

ccacgccccc ttcggcatcg cgggcgcgca tgaccacctg cgcgagattg agctccacgt 11820

gccgggcgaa gacggcgtag tttcgcaggc gctgaaagag gtagttgagg gtggtggcgg 11880

tgtgttctgc cacgaagaag tacataaccc agcgtcgcaa cgtggattcg ttgatatccc 11940

ccaaggcctc aaggcgctcc atggcctcgt agaagtccac ggcgaagttg aaaaactggg 12000

agttgcgcgc cgacacggtt aactcctcct ccagaagacg gatgagctcg gcgacagtgt 12060

cgcgcacctc gcgctcaaag gctacagggg cctcttcttc ttcttcaatc tcctcttcca 12120

taagggcctc cccttcttct tcttctggcg gcggtggggg agggggggaca cggcggcgac 12180

gacggcgcac cgggaggcgg tcgacaaagc gctcgatcat ctccccgcgg cgacggcgca 12240

tggtctcggt gacggcgcgg ccgttctcgc gggggcgcag ttggaagacg ccgcccgtca 12300

tgtcccggtt atgggttggc gggggggctgc catgcggcag ggatacggcg ctaacgatgc 12360

atctcaacaa ttgttgtgta ggtactccgc cgccgaggga cctgagcgag tccgcatcga 12420

ccggatcgga aaacctctcg agaaaggcgt ctaaccagtc acagtcgcaa ggtaggctga 12480

gcaccgtggc gggcggcagc gggcggcggt cggggttgtt tctggcggag gtgctgctga 12540

tgatgtaatt aaagtaggcg gtcttgagac ggcggatggt cgacagaagc accatgtcct 12600

tgggtccggc ctgctgaatg cgcaggcggt cggccatgcc ccaggcttcg ttttgacatc 12660

ggcgcaggtc tttgtagtag tcttgcatga gcctttctac cggcacttct tcttctcctt 12720

cctcttgtcc tgcatctctt gcatctatcg ctgcggcggc ggcggagttt ggccgtaggt 12780

ggcgccctct tcctcccatg cgtgtgaccc cgaagcccct catcggctga agcagggcta 12840

ggtcggcgac aacgcgctcg gctaatatgg cctgctgcac ctgcgtgagg gtagactgga 12900

agtcatccat gtccacaaag cggtggtatg cgcccgtgtt gatggtgtaa gtgcagttgg 12960

ccataacgga ccagttaacg gtctggtgac ccggctgcga gagctcggtg tacctgagac 13020

gcgagtaagc cctcgagtca aatacgtagt cgttgcaagt ccgcaccagg tactggtatc 13080

ccaccaaaaa gtgcggcggc ggctggcggt agaggggcca gcgtagggtg gccggggctc 13140

cgggggcgag atcttccaac ataaggcgat gatatccgta gatgtacctg gacatccagg 13200

tgatgccggc ggcggtggtg gaggcgcgcg gaaagtcgcg gacgcggttc cagatgttgc 13260

gcagcggcaa aaagtgctcc atggtcggga cgctctggcc ggtcaggcgc gcgcaatcgt 13320

tgacgctcta gaccgtgcaa aaggagagcc tgtaagcggg cactcttccg tggtctggtg 13380

gataaattcg caagggtatc atggcggacg accggggttc gagccccgta tccggccgtc 13440

cgccgtgatc catgcggtta ccgcccgcgt gtcgaaccca ggtgtgcgac gtcagacaac 13500

gggggagtgc tccttttggc ttccttccag gcgcggcggc tgctgcgcta gctttttgg 13560

ccactggccg cgcgcagcgt aagcggttag gctggaaagc gaaagcatta agtggctcgc 13620

tccctgtagc cggagggtta ttttccaagg gttgagtcgc gggacccccg gttcgagtct 13680

cggaccggcc ggactgcggc gaacgggggt ttgcctcccc gtcatgcaag accccgcttg 13740

caaattcctc cggaaacagg gacgagcccc ttttttgctt ttcccagatg catccggtgc 13800

tgcggcagat gcgcccccct cctcagcagc ggcaagagca agagcagcgg cagacatgca 13860

gggcaccctc ccctcctcct accgcgtcag gaggggcgac atccgcggtt gacgcggcag 13920

cagatggtga ttacgaaccc ccgcggcgcc gggcccggca ctacctggac ttggaggagg 13980

gcgagggcct ggcgcggcta ggagcgccct ctcctgagcg gtacccaagg gtgcagctga 14040

agcgtgatac gcgtgaggcg tacgtgccgc ggcagaacct gtttcgcgac cgcgagggag 14100

aggagcccga ggagatgcgg gatcgaaagt tccacgcagg gcgcgagctg cggcatggcc 14160

tgaatcgcga gcggttgctg cgcgaggagg actttgagcc cgacgcgcga accgggatta 14220

gtcccgcgcg cgcacacgtg gcggccgccg acctggtaac cgcatacgag cagacggtga 14280

accaggagat taactttcaa aaaagcttta acaaccacgt gcgtacgctt gtggcgcgcg 14340

aggaggtggc tataggactg atgcatctgt gggactttgt aagcgcgctg gagcaaaacc 14400

caaatagcaa gccgctcatg gcgcagctgt tccttatagt gcagcacagc agggacaacg 14460

aggcattcag ggatgcgctg ctaaacatag tagagcccga gggccgctgg ctgctcgatt 14520

tgataaacat cctgcagagc atagtggtgc aggagcgcag cttgagcctg gctgacaagg 14580

tggccgccat caactattcc atgcttagcc tgggcaagtt ttacgcccgc aagatatacc 14640

ataccccttа cgttcccata gacaaggagg taaagatcga ggggttctac atgcgcatgg 14700

cgctgaaggt gcttaccttg agcgacgacc tgggcgttta tcgcaacgag cgcatccaca 14760

aggccgtgag cgtgagccgg cggcgcgagc tcagcgaccg cgagctgatg cacagcctgc 14820

aaagggccct ggctggcacg ggcagcggcg atagagaggc cgagtcctac tttgacgcgg 14880

gcgctgacct gcgctgggcc ccaagccgac gcgccctgga ggcagctggg gccggacctg 14940

ggctggcggt ggcacccgcg cgcgctggca acgtcggcgg cgtggaggaa tatgacgagg 15000

acgatgagta cgagccagag gacggcgagt actaagcggt gatgtttctg atcagatgat 15060

gcaagacgca acggacccgg cggtgcgggc ggcgctgcag agccagccgt ccggccttaa 15120

ctccacggac gactggcgcc aggtcatgga ccgcatcatg tcgctgactg cgcgcaatcc 15180

tgacgcgttc cggcagcagc cgcaggccaa ccggctctcc gcaattctgg aagcggtggt 15240

cccggcgcgc gcaaacccca cgcacgagaa ggtgctggcg atcgtaaacg cgctggccga 15300

aaacagggcc atccggcccg acgaggccgg cctggtctac gacgcgctgc ttcagcgcgt 15360

ggctcgttac aacagcggca acgtgcagac caacctggac cggctggtgg gggatgtgcg 15420

cgaggccgtg gcgcagcgtg agcgcgcgca gcagcagggc aacctgggct ccatggttgc 15480

actaaacgcc ttcctgagta cacagcccgc caacgtgccg cggggacagg aggactacac 15540

caactttgtg agcgcactgc ggctaatggt gactgagaca ccgcaaagtg aggtgtacca 15600

gtctgggcca gactattttt tccagaccag tagacaaggc ctgcagaccg taaacctgag 15660

ccaggctttc aaaaacttgc aggggctgtg gggggtgcgg gctcccacag gcgaccgcgc 15720

gaccgtgtct agcttgctga cgcccaactc gcgcctgttg ctgctgctaa tagcgccctt 15780

cacggacagt ggcagcgtgt cccgggacac atacctaggt cacttgctga cactgtaccg 15840

cgaggccata ggtcaggcgc atgtggacga gcatactttc caggagatta caagtgtcag 15900

ccgcgcgctg gggcaggagg acacgggcag cctggaggca accctaaact acctgctgac 15960

caaccggcgg cagaagatcc cctcgttgca cagtttaaac agcgaggagg agcgcatttt 16020

gcgctacgtg cagcagagcg tgagccttaa cctgatgcgc gacggggtaa cgcccagcgt 16080

ggcgctggac atgaccgcgc gcaacatgga accgggcatg tatgcctcaa accggccgtt 16140

tatcaaccgc ctaatggact acttgcatcg cgcggccgcc gtgaaccccg agtatttcac 16200

caatgccatc ttgaacccgc actggctacc gccccctggt ttctacaccg ggggattcga 16260

ggtgcccgag ggtaacgatg gattcctctg ggacgacata gacgacagcg tgttttcccc 16320

gcaaccgcag accctgctag agttgcaaca gcgcgagcag gcagaggcgg cgctgcgaaa 16380

ggaaagcttc cgcaggccaa gcagcttgtc cgatctaggc gctgcggccc cgcggtcaga 16440

tgctagtagc ccatttccaa gcttgatagg gtctcttacc agcactcgca ccacccgccc 16500

gcgcctgctg ggcgaggagg agtacctaaa caactcgctg ctgcagccgc agcgcgaaaa 16560

aaacctgcct ccggcatttc ccaacaacgg gatagagagc ctagtggaca agatgagtag 16620

atggaagacg tacgcgcagg agcacaggga cgtgccaggc ccgcgcccgc ccacccgtcg 16680

tcaaaggcac gaccgtcagc ggggtctggt gtgggaggac gatgactcgg cagacgacag 16740

cagcgtcctg gatttgggag ggagtggcaa cccgtttgcg caccttcgcc ccaggctggg 16800

gagaatgttt taaaaaaaaa aaagcatgat gcaaaataaa aaactcacca aggccatggc 16860

accgagcgtt ggttttcttg tattcccctt agtatgcggc gcgcggcgat gtatgaggaa 16920

ggtcctcctc cctcctacga gagtgtggtg agcgcggcgc cagtggcggc ggcgctgggt 16980

tctcccttcg atgctcccct ggacccgccg tttgtgcctc cgcggtacct gcggcctacc 17040

ggggggagaa acagcatccg ttactctgag ttggcacccc tattcgacac cacccgtgtg 17100

tacctggtgg acaacaagtc aacggatgtg gcatccctga actaccagaa cgaccacagc 17160

aactttctga ccacggtcat tcaaaacaat gactacagcc cgggggaggc aagcacacag 17220

accatcaatc ttgacgaccg gtcgcactgg ggcggcgacc tgaaaaccat cctgcatacc 17280

aacatgccaa atgtgaacga gttcatgttt accaataagt ttaaggcgcg ggtgatggtg 17340

tcgcgcttgc ctactaagga caatcaggtg gagctgaaat acgagtgggt ggagttcacg 17400

ctgcccgagg gcaactactc cgagaccatg accatagacc ttatgaacaa cgcgatcgtg 17460

gagcactact tgaaagtggg cagacagaac ggggttctgg aaagcgacat cggggtaaag 17520

tttgacaccc gcaacttcag actggggttt gaccccgtca ctggtcttgt catgcctggg 17580

gtatatacaa acgaagcctt ccatccagac atcattttgc tgccaggatg cggggtggac 17640

ttcacccaca gccgcctgag caacttgttg ggcatccgca agcggcaacc cttccaggag 17700

ggctttagga tcacctacga tgatctggag ggtggtaaca ttcccgcact gttggatgtg 17760

gacgcctacc aggcgagctt gaaagatgac accgaacagg gcgggggtgg cgcaggcggc 17820

agcaacagca gtggcagcgg cgcggaagag aactccaacg cggcagccgc ggcaatgcag 17880

ccggtggagg acatgaacga tcatgccatt cgcggcgaca cctttgccac acgggctgag 17940

gagaagcgcg ctgaggccga agcagcggcc gaagctgccg cccccgctgc gcaacccgag 18000

gtcgagaagc ctcagaagaa accggtgatc aaaccccctga cagaggacag caagaaacgc 18060

agttacaacc taataagcaa tgacagcacc ttcacccagt accgcagctg gtaccttgca 18120

tacaactacg gcgaccctca gaccggaatc cgctcatgga ccctgctttg cactcctgac 18180

gtaacctgcg gctcggagca ggtctactgg tcgttgccag acatgatgca agaccccgtg 18240

accttccgct ccacgcgcca gatcagcaac tttccggtgg tgggcgccga gctgttgccc 18300

gtgcactcca agagcttcta caacgaccag gccgtctact cccaactcat ccgccagttt 18360

acctctctga cccacgtgtt caatcgcttt cccgagaacc agattttggc gcgcccgcca 18420

gcccccacca tcaccaccgt cagtgaaaac gttcctgctc tcacagatca cgggacgcta 18480

ccgctgcgca acagcatcgg aggagtccag cgagtgacca ttactgacgc cagacgccgc 18540

acctgccccc acgtttacaa ggccctgggc atagtctcgc cgcgcgtcct atcgagccgc 18600

acttttgag caagcatgtc catccttata tcgcccagca ataacacagg ctggggcctg 18660

cgcttcccaa gcaagatgtt tggcggggcc aagaagcgct ccgaccaaca cccagtgcgc 18720

gtgcgcgggc actaccgcgc gccctggggc gcgcacaaac gcggccgcac tgggcgcacc 18780

accgtcgatg acgccatcga cgcggtggtg gaggaggcgc gcaactacac gcccacgccg 18840

ccaccagtgt ccacagtgga cgcggccatt cagaccgtgg tgcgcggagc ccggcgctat 18900

gctaaaatga agagacggcg gaggcgcgta gcacgtcgcc accgccgccg acccggcact 18960

gccgcccaac gcgcggcggc ggccctgctt aaccgcgcac gtcgcaccgg ccgacgggcg 19020

gccatgcggg ccgctcgaag gctggccgcg ggtattgtca ctgtgccccc caggtccagg 19080

cgacgagcgg ccgccgcagc agccgcggcc attagtgcta tgactcaggg tcgcaggggc 19140

aacgtgtatt gggtgcgcga ctcggttagc ggcctgcgcg tgcccgtgcg cacccgcccc 19200

ccgcgcaact agattgcaag aaaaaactac ttagactcgt actgttgtat gtatccagcg 19260

gcggcggcgc gcaacgaagc tatgtccaag cgcaaaatca aagaagagat gctccaggtc 19320

atcgcgccgg agatctatgg ccccccgaag aaggaagagc aggattacaa gccccgaaag 19380

ctaaagcggg tcaaaaagaa aaagaaagat gatgatgatg aacttgacga cgaggtggaa 19440

ctgctgcacg ctaccgcgcc caggcgacgg gtacagtgga aaggtcgacg cgtaaaacgt 19500

gttttgcgac ccggcaccac cgtagtcttt acgcccggtg agcgctccac ccgcacctac 19560

aagcgcgtgt atgatgaggt gtacggcgac gaggacctgc ttgagcaggc caacgagcgc 19620

ctcggggagt ttgcctacgg aaagcggcat aaggacatgc tggcgttgcc gctggacgag 19680

ggcaacccaa cacctagcct aaagcccgta acactgcagc aggtgctgcc cgcgcttgca 19740

ccgtccgaag aaaagcgcgg cctaaagcgc gagtctggtg acttggcacc caccgtgcag 19800

ctgatggtac ccaagcgcca gcgactggaa gatgtcttgg aaaaaatgac cgtggaacct 19860

gggctggagc ccgaggtccg cgtgcggcca atcaagcagg tggcgccggg actgggcgtg 19920

cagaccgtgg acgttcagat acccactacc agtagcacca gtattgccac cgccacagag 19980

ggcatggaga cacaaacgtc cccggttgcc tcagcggtgg cggatgccgc ggtgcaggcg 20040

gtcgctgcgg ccgcgtccaa gacctctacg gaggtgcaaa cggacccgtg gatgtttcgc 20100

gtttcagccc cccggcgccc gcgcggttcg aggaagtacg gcgccgccag cgcgctactg 20160

cccgaatatg ccctacatcc ttccattgcg cctacccccg gctatcgtgg ctacacctac 20220

cgccccagaa gacgagcaac tacccgacgc cgaaccacca ctggaacccg ccgccgccgt 20280

cgccgtcgcc agcccgtgct ggccccgatt tccgtgcgca gggtggctcg cgaaggaggc 20340

aggaccctgg tgctgccaac agcgcgctac caccccagca tcgtttaaaa gccggtcttt 20400

gtggttcttg cagatatggc cctcacctgc cgcctccgtt tcccggtgcc gggattccga 20460

ggaagaatgc accgtaggag gggcatggcc ggccacggcc tgacgggcgg catgcgtcgt 20520

gcgcaccacc ggcggcggcg cgcgtcgcac cgtcgcatgc gcggcggtat cctgcccctc 20580

cttattccac tgatcgccgc ggcgattggc gccgtgcccg gaattgcatc cgtggccttg 20640

caggcgcaga gacactgatt aaaaacaagt tgcatgtgga aaaatcaaaa taaaaagtct 20700

ggactctcac gctcgcttgg tcctgtaact attttgtaga atggaagaca tcaactttgc 20760

gtctctggcc ccgcgacacg gctcgcgccc gttcatggga aactggcaag atatcggcac 20820

cagcaatatg agcggtggcg ccttcagctg gggctcgctg tggagcggca ttaaaaattt 20880

cggttccacc gttaagaact atggcagcaa ggcctggaac agcagcacag gccagatgct 20940

gagggataag ttgaaagagc aaaatttcca acaaaaggtg gtagatggcc tggcctctgg 21000

cattagcggg gtggtggacc tggccaacca ggcagtgcaa aataagatta acagtaagct 21060

tgatccccgc cctcccgtag aggagcctcc accggccgtg gagacagtgt ctccagaggg 21120

gcgtggcgaa aagcgtccgc gccccgacag ggaagaaact ctggtgacgc aaatagacga 21180

gcctccctcg tacgaggagg cactaaagca aggcctgccc accacccgtc ccatcgcgcc 21240

catggctacc ggagtgctgg gccagcacac acccgtaacg ctggacctgc ctccccccgc 21300

cgacacccag cagaaacctg tgctgccagg cccgaccgcc gttgttgtaa cccgtcctag 21360

ccgcgcgtcc ctgcgccgcg ccgccagcgg tccgcgatcg ttgcggcccg tagccagtgg 21420

caactggcaa agcacactga acagcatcgt gggtctgggg gtgcaatccc tgaagcgccg 21480

acgatgcttc tgaatagcta acgtgtcgta tgtgtgtcat gtatgcgtcc atgtcgccgc 21540

cagaggagct gctgagccgc cgcgcgcccg ctttccaaga tggctacccc ttcgatgatg 21600

ccgcagtggt cttacatgca catctcgggc caggacgcct cggagtacct gagccccggg 21660

ctggtgcagt ttgcccgcgc caccgagacg tacttcagcc tgaataacaa gtttagaaac 21720

cccacggtgg cgcctacgca cgacgtgacc acagaccggt cccagcgttt gacgctgcgg 21780

ttcatccctg tggaccgtga ggatactgcg tactcgtaca aggcgcggtt caccctagct 21840

gtgggtgata accgtgtgct ggacatggct tccacgtact ttgacatccg cggcgtgctg 21900

gacaggggcc ctacttttaa gccctactct ggcactgcct acaacgccct ggctcccaag 21960

ggtgccccaa atccttgcga atgggatgaa gctgctactg ctcttgaaat aaacctagaa 22020

gaagaggacg atgacaacga agacgaagta gacgagcaag ctgagcagca aaaaactcac 22080

gtatttgggc aggcgcctta ttctggtata aatattacaa aggagggtat tcaaataggt 22140

gtcgaaggtc aaacacctaa atatgccgat aaaacatttc aacctgaacc tcaaatagga 22200

gaatctcagt ggtacgaaac tgaaattaat catgcagctg ggagagtcct taaaaagact 22260

accccaatga aaccatgtta cggttcatat gcaaaaccca caaatgaaaa tggagggcaa 22320

ggcattcttg taaagcaaca aaatggaaag ctagaaagtc aagtggaaat gcaatttttc 22380

tcaactactg aggcgaccgc aggcaatggt gataacttga ctcctaaagt ggtattgtac 22440

agtgaagatg tagatataga aaccccagac actcatattt cttacatgcc cactattaag 22500

gaaggtaact cacgagaact aatgggccaa caatctatgc ccaacaggcc taattacatt 22560

gcttttaggg acaattttat tggtctaatg tattacaaca gcacgggtaa tatgggtgtt 22620

ctggcgggcc aagcatcgca gttgaatgct gttgtagatt tgcaagacag aaacacagag 22680

ctttcatacc agcttttgct tgattccatt ggtgatagaa ccaggtactt ttctatgtgg 22740

aatcaggctg ttgacagcta tgatccagat gttagaatta ttgaaaatca tggaactgaa 22800

gatgaacttc caaattactg ctttccactg ggaggtgtga ttaatacaga gactcttacc 22860

aaggtaaaac ctaaaacagg tcaggaaaat ggatgggaaa aagatgctac agaattttca 22920

gataaaaatg aaataagagt tggaaataat tttgccatgg aaatcaatct aaatgccaac 22980

ctgtggagaa atttcctgta ctccaacata gcgctgtatt tgcccgacaa gctaaagtac 23040

agtccttcca acgtaaaaat ttctgataac ccaaacacct acgactacat gaacaagcga 23100

gtggtggctc ccgggttagt ggactgctac attaaccttg gagcacgctg gtcccttgac 23160

tatatggaca acgtcaaccc atttaaccac caccgcaatg ctggcctgcg ctaccgctca 23220

atgttgctgg gcaatggtcg ctatgtgccc ttccacatcc aggtgcctca gaagttcttt 23280

gccattaaaa acctccttct cctgccgggc tcatacacct acgagtggaa cttcaggaag 23340

gatgttaaca tggttctgca gagctcccta ggaaatgacc taagggttga cggagccagc 23400

attaagtttg atagcatttg cctttacgcc accttcttcc ccatggccca caacaccgcc 23460

tccacgcttg aggccatgct tagaaacgac accaacgacc agtcctttaa cgactatctc 23520

tccgccgcca acatgctcta ccctataccc gccaacgcta ccaacgtgcc catatccatc 23580

ccctcccgca actgggcggc tttccgcggc tgggccttca cgcgccttaa gactaaggaa 23640

accccatcac tgggctcggg ctacgaccct tattacacct actctggctc tataccctac 23700

ctagatggaa ccttttacct caaccacacc tttaagaagg tggccattac ctttgactct 23760

tctgtcagct ggcctggcaa tgaccgcctg cttaccccca acgagtttga aattaagcgc 23820

tcagttgacg gggagggtta caacgttgcc cagtgtaaca tgaccaaaga ctggttcctg 23880

gtacaaatgc tagctaacta caacattggc taccagggct tctatatccc agagagctac 23940

aaggaccgca tgtactcctt ctttagaaac ttccagccca tgagccgtca ggtggtggat 24000

gatactaaat acaaggacta ccaacaggtg ggcatcctac accaacacaa caactctgga 24060

tttgttggct accttgcccc caccatgcgc gaaggacagg cctaccctgc taacttcccc 24120

tatccgctta taggcaagac cgcagttgac agcattaccc agaaaaagtt tctttgcgat 24180

cgcacccttt ggcgcatccc attctccagt aactttatgt ccatgggcgc actcacagac 24240

ctgggccaaa accttctcta cgccaactcc gcccacgcgc tagacatgac ttttgaggtg 24300

gatcccatgg acgagcccac ccttctttat gttttgtttg aagtctttga cgtggtccgt 24360

gtgcaccggc cgcaccgcgg cgtcatcgaa accgtgtacc tgcgcacgcc cttctcggcc 24420

ggcaacgcca caacataaag aagcaagcaa catcaacaac agctgccgcc atgggctcca 24480

gtgagcagga actgaaagcc attgtcaaag atcttggttg tgggccatat tttttgggca 24540

cctatgacaa gcgctttcca ggctttgttt ctccacacaa gctcgcctgc gccatagtca 24600

atacggccgg tcgcgagact gggggcgtac actggatggc ctttgcctgg aacccgcact 24660

caaaaacatg ctacctcttt gagccctttg gcttttctga ccagcgactc aagcaggttt 24720

accagtttga gtacgagtca ctcctgcgcc gtagcgccat tgcttcttcc cccgaccgct 24780

gtataacgct ggaaaagtcc acccaaagcg tacaggggcc caactcggcc gcctgtggac 24840

tattctgctg catgtttctc cacgcctttg ccaactggcc ccaaactccc atggatcaca 24900

accccaccat gaaccttatt accggggtac ccaactccat gctcaacagt ccccaggtac 24960

agcccaccct gcgtcgcaac caggaacagc tctacagctt cctggagcgc cactcgccct 25020

acttccgcag ccacagtgcg cagattagga gcgccacttc tttttgtcac ttgaaaaaca 25080

tgtaaaaata atgtactaga gacactttca ataaaggcaa atgcttttat ttgtacactc 25140

tcgggtgatt atttaccccc acccttgccg tctgcgccgt ttaaaaatca aaggggttct 25200

gccgcgcatc gctatgcgcc actggcaggg acacgttgcg atactggtgt ttagtgctcc 25260

acttaaactc aggcacaacc atccgcggca gctcggtgaa gttttcactc cacaggctgc 25320

gcaccatcac caacgcgttt agcaggtcgg gcgccgatat cttgaagtcg cagttggggc 25380

ctccgccctg cgcgcgcgag ttgcgataca cagggttgca gcactggaac actatcagcg 25440

ccgggtggtg cacgctggcc agcacgctct tgtcggagat cagatccgcg tccaggtcct 25500

ccgcgttgct cagggcgaac ggagtcaact ttggtagctg ccttcccaaa aagggcgcgt 25560

gcccaggctt tgagttgcac tcgcaccgta gtggcatcaa aaggtgaccg tgcccggtct 25620

gggcgttagg atacagcgcc tgcataaaag ccttgatctg cttaaaagcc acctgagcct 25680

ttgcgccttc agagaagaac atgccgcaag acttgccgga aaactgattg gccggacagg 25740

ccgcgtcgtg cacgcagcac cttgcgtcgg tgttggagat ctgcaccaca tttcggcccc 25800

accggttctt cacgatcttg gccttgctag actgctcctt cagcgcgcgc tgcccgtttt 25860

cgctcgtcac atccatttca atcacgtgct ccttatttat cataatgctt ccgtgtagac 25920

acttaagctc gccttcgatc tcagcgcagc ggtgcagcca caacgcgcag cccgtgggct 25980

cgtgatgctt gtaggtcacc tctgcaaacg actgcaggta cgcctgcagg aatcgcccca 26040

tcatcgtcac aaaggtcttg ttgctggtga aggtcagctg caacccgcgg tgctcctcgt 26100

tcagccaggt cttgcatacg gccgccagag cttccacttg gtcaggcagt agtttgaagt 26160

tcgcctttag atcgttatcc acgtggtact tgtccatcag cgcgcgcgca gcctccatgc 26220

ccttctccca cgcagacacg atcggcacac tcagcgggtt catcaccgta atttcacttt 26280

ccgcttcgct gggctcttcc tcttcctctt gcgtccgcat accacgcgcc actgggtcgt 26340

cttcattcag ccgccgcact gtgcgcttac ctcctttgcc atgcttgatt agcaccggtg 26400

ggttgctgaa acccaccatt tgtagcgcca catcttctct ttcttcctcg ctgtccacga 26460

ttacctctgg tgatggcggg cgctcgggct tgggagaagg gcgcttcttt ttcttcttgg 26520

gcgcaatggc caaatccgcc gccgaggtcg atggccgcgg gctgggtgtg cgcggcacca 26580

gcgcgtcttg tgatgagtct tcctcgtcct cggactcgat acgccgcctc atccgctttt 26640

ttgggggcgc ccggggaggc ggcggcgacg gggacgggga cgacacgtcc tccatggttg 26700

ggggacgtcg cgccgcaccg cgtccgcgct cgggggtggt ttcgcgctgc tcctcttccc 26760

gactggccat ttccttctcc tataggcaga aaaagatcat ggagtcagtc gagaagaagg 26820

acagcctaac cgccccctct gagttcgcca ccaccgcctc caccgatgcc gccaacgcgc 26880

ctaccacctt ccccgtcgag gcacccccgc ttgaggagga ggaagtgatt atcgagcagg 26940

acccaggttt tgtaagcgaa gacgacgagg accgctcagt accaacagag gataaaaagc 27000

aagaccagga caacgcagag gcaaacgagg aacaagtcgg gcgggggggac gaaaggcatg 27060

gcgactacct agatgtggga gacgacgtgc tgttgaagca tctgcagcgc cagtgcgcca 27120

ttatctgcga cgcgttgcaa gagcgcagcg atgtgcccct cgccatagcg gatgtcagcc 27180

ttgcctacga acgccaccta ttctcaccgc gcgtaccccc caaacgccaa gaaaacggca 27240

catgcgagcc caacccgcgc ctcaacttct accccgtatt tgccgtgcca gaggtgcttg 27300

ccacctatca catctttttc caaaactgca agataccect atcctgccgt gccaaccgca 27360

gccgagcgga caagcagctg gccttgcggc agggcgctgt catacctgat atcgcctcgc 27420

tcaacgaagt gccaaaaatc tttgagggtc ttggacgcga cgagaagcgc gcggcaaacg 27480

ctctgcaaca ggaaaacagc gaaaatgaaa gtcactctgg agtgttggtg gaactcgagg 27540

gtgacaacgc gcgcctagcc gtactaaaac gcagcatcga ggtcacccac tttgcctacc 27600

cggcacttaa cctacccccc aaggtcatga gcacagtcat gagtgagctg atcgtgcgcc 27660

gtgcgcagcc cctggagagg gatgcaaatt tgcaagaaca aacagaggag ggcctacccg 27720

cagttggcga cgagcagcta gcgcgctggc ttcaaacgcg cgagcctgcc gacttggagg 27780

agcgacgcaa actaatgatg gccgcagtgc tcgttaccgt ggagcttgag tgcatgcagc 27840

ggttctttgc tgacccggag atgcagcgca agctagagga aacattgcac tacacctttc 27900

gacagggcta cgtacgccag gcctgcaaga tctccaacgt ggagctctgc aacctggtct 27960

cctaccttgg aattttgcac gaaaaccgcc ttgggcaaaa cgtgcttcat tccacgctca 28020

agggcgaggc gcgccgcgac tacgtccgcg actgcgttta cttatttcta tgctacacct 28080

ggcagacggc catgggcgtt tggcagcagt gcttggagga gtgcaacctc aaggagctgc 28140

agaaactgct aaagcaaaac ttgaaggacc tatggacggc cttcaacgag cgctccgtgg 28200

ccgcgcacct ggcggacatc attttccccg aacgcctgct taaaaccctg caacagggtc 28260

tgccagactt caccagtcaa agcatgttgc agaactttag gaactttatc ctagagcgct 28320

caggaatctt gcccgccacc tgctgtgcac ttcctagcga ctttgtgccc attaagtacc 28380

gcgaatgccc tccgccgctt tggggccact gctaccttct gcagctagcc aactaccttg 28440

cctaccactc tgacataatg gaagacgtga gcggtgacgg tctactggag tgtcactgtc 28500

gctgcaacct atgcaccccg caccgctccc tggtttgcaa ttcgcagctg cttaacgaaa 28560

gtcaaattat cggtaccttt gagctgcagg gtccctcgcc tgacgaaaag tccgcggctc 28620

cggggttgaa actcactccg gggctgtgga cgtcggctta ccttcgcaaa tttgtacctg 28680

aggactacca cgcccacgag attaggttct acgaagacca atcccgcccg ccaaatgcgg 28740

agcttaccgc ctgcgtcatt acccagggcc acattcttgg ccaattgcaa gccatcaaca 28800

aagcccgcca agagtttctg ctacgaaagg gacgggggggt ttacttggac ccccagtccg 28860

gcgaggagct caacccaatc cccccgccgc cgcagcccta tcagcagcag ccgcgggccc 28920

ttgcttccca ggatggcacc caaaaagaag ctgcagctgc cgccgccacc cacggacgag 28980

gaggaatact gggacagtca ggcagaggag gttttggacg aggaggagga ggacatgatg 29040

gaagactggg agagcctaga cgaggaagct tccgaggtcg aagaggtgtc agacgaaaca 29100

ccgtcaccct cggtcgcatt cccctcgccg gcgccccaga aatcggcaac cggttccagc 29160

atggctacaa cctccgctcc tcaggcgccg ccggcactgc ccgttcgccg acccaaccgt 29220

agatgggaca ccactggaac cagggccggt aagtccaagc agccgccgcc gttagcccaa 29280

gagcaacaac agcgccaagg ctaccgctca tggcgcgggc acaagaacgc catagttgct 29340

tgcttgcaag actgtggggg caacatctcc ttcgcccgcc gctttcttct ctaccatcac 29400

ggcgtggcct tcccccgtaa catcctgcat tactaccgtc atctctacag cccatactgc 29460

accggcggca gcggcagcgg cagcaacagc agcggccaca cagaagcaaa ggcgaccgga 29520

tagcaagact ctgacaaagc ccaagaaatc cacagcggcg gcagcagcag gaggaggagc 29580

gctgcgtctg gcgcccaacg aacccgtatc gacccgcgag cttagaaaca ggatttttcc 29640

cactctgtat gctatatttc aacagagcag gggccaagaa caagagctga aaataaaaaa 29700

caggtctctg cgatccctca cccgcagctg cctgtatcac aaaagcgaag atcagcttcg 29760

gcgcacgctg gaagacgcgg aggctctctt cagtaaatac tgcgcgctga ctcttaagga 29820

ctagtttcgc gccctttctc aaatttaagc gcgaaaacta cgtcatctcc agcggccaca 29880

cccggcgcca gcacctgtcg tcagcgccat tatgagcaag gaaattccca cgccctacat 29940

gtggagttac cagccacaaa tgggacttgc ggctggagct gcccaagact actcaacccg 30000

aataaactac atgagcgcgg gaccccacat gatatcccgg gtcaacggaa tccgcgccca 30060

ccgaaaccga attctcttgg aacaggcggc tattaccacc acacctcgta ataaccttaa 30120

tccccgtagt tggcccgctg ccctggtgta ccaggaaagt cccgctccca ccactgtggt 30180

acttcccaga gacgcccagg ccgaagttca gatgactaac tcaggggcgc agcttgcggg 30240

cggctttcgt cacagggtgc ggtcgcccgg gcagggtata actcacctga caatcagagg 30300

gcgaggtatt cagctcaacg acgagtcggt gagctcctcg cttggtctcc gtccggacgg 30360

gacatttcag atcggcggcg ccggccgtcc ttcattcacg cctcgtcagg caatcctaac 30420

tctgcagacc tcgtcctctg agccgcgctc tggaggcatt ggaactctgc aatttattga 30480

ggagtttgtg ccatcggtct actttaaccc cttctcggga cctcccggcc actatccgga 30540

tcaatttatt cctaactttg acgcggtaaa ggactcggcg gacggctacg actgaatgtt 30600

aagtggagag gcagagcaac tgcgcctgaa acacctggtc cactgtcgcc gccacaagtg 30660

ctttgcccgc gactccggtg agttttgcta ctttgaattg cccgaggatc atatcgaggg 30720

cccggcgcac ggcgtccggc ttaccgccca gggagagctt gcccgtagcc tgattcggga 30780

gtttacccag cgccccctgc tagttgagcg ggacagggga ccctgtgttc tcactgtgat 30840

ttgcaactgt cctaaccttg gattacatca agatctttgt tgccatctct gtgctgagta 30900

taataaatac agaaattaaa atatactggg gctcctatcg ccatcctgta aacgccaccg 30960

tcttcacccg cccaagcaaa ccaaggcgaa ccttacctgg tacttttaac atctctccct 31020

ctgtgattta caacagtttc aacccagacg gagtgagtct acgagagaac ctctccgagc 31080

tcagctactc catcagaaaa aacaccaccc tccttacctg ccgggaacgt acgagtgcgt 31140

caccggccgc tgcaccacac ctaccgcctg accgtaaacc agacttttc cggacagacc 31200

tcaataactc tgtttaccag aacaggaggt gagcttagaa aacccttagg gtattaggcc 31260

aaaggcgcag ctactgtggg gtttatgaac aattcaagca actctacggg ctattctaat 31320

tcaggtttct ctagaaatgg acggaattat tacagagcag cgcctgctag aaagacgcag 31380

ggcagcggcc gagcaacagc gcatgaatca agagctccaa gacatggtta acttgcacca 31440

gtgcaaaagg ggtatctttt gtctggtaaa gcaggccaaa gtcacctacg acagtaatac 31500

caccggacac cgccttagct acaagttgcc aaccaagcgt cagaaattgg tggtcatggt 31560

gggagaaaag cccattacca taactcagca ctcggtagaa accgaaggct gcattcactc 31620

accttgtcaa ggacctgagg atctctgcac ccttattaag accctgtgcg gtctcaaaga 31680

tcttattccc tttaactaat aaaaaaaaat aataaagcat cacttactta aaatcagtta 31740

gcaaatttct gtccagttta ttcagcagca cctccttgcc ctcctcccag ctctggtatt 31800

gcagcttcct cctggctgca aactttctcc acaatctaaa tggaatgtca gtttcctcct 31860

gttcctgtcc atccgcaccc actatcttca tgttgttgca gatgaagcgc gcaagaccgt 31920

ctgaagatac cttcaacccc gtgtatccat atgacacgga aaccggtcct ccaactgtgc 31980

cttttcttac tcctcccttt gtatccccca atgggtttca agagagtccc cctggggtac 32040

tctctttgcg cctatccgaa cctctagtta cctccaatgg catgcttgcg ctcaaaatgg 32100

gcaacggcct ctctctggac gaggccggca accttacctc ccaaaatgta accactgtga 32160

gcccacctct caaaaaaacc aagtcaaaca taaacctgga aatatctgca cccctcacag 32220

ttacctcaga agccctaact gtggctgccg ccgcacctct aatggtcgcg ggcaacacac 32280

tcaccatgca atcacaggcc ccgctaaccg tgcacgactc caaacttagc attgccaccc 32340

aaggacccct cacagtgtca gaaggaaagc tagccctgca aacatcaggc cccctcacca 32400

ccaccgatag cagtaccctt actatcactg cctcaccccc tctaactact gccactggta 32460

gcttgggcat tgacttgaaa gagcccattt atacacaaaa tggaaaacta ggactaaagt 32520

acggggctcc tttgcatgta acagacgacc taaacacttt gaccgtagca actggtccag 32580

gtgtgactat taataatact tccttgcaaa ctaaagttac tggagccttg ggttttgatt 32640

cacaaggcaa tatgcaactt aatgtagcag gaggactaag gattgattct caaaacagac 32700

gccttatact tgatgttagt tatccgtttg atgctcaaaa ccaactaaat ctaagactag 32760

gacagggccc tctttttata aactcagccc acaacttgga tattaactac aacaaaggcc 32820

tttacttgtt tacagcttca aacaattcca aaaagcttga ggttaaccta agcactgcca 32880

aggggttgat gtttgacgct acagccatag ccattaatgc aggagatggg cttgaatttg 32940

gttcacctaa tgcaccaaac acaaatcccc tcaaaacaaa aattggccat ggcctagaat 33000

ttgattcaaa caaggctatg gttcctaaac taggaactgg ccttagtttt gacagcacag 33060

gtgccattac agtaggaaac aaaaataatg ataagctaac tttgtggacc acaccagctc 33120

catctcctaa ctgtagacta aatgcagaga aagatgctaa actcactttg gtcttaacaa 33180

aatgtggcag tcaaatactt gctacagttt cagttttggc tgttaaaggc agtttggctc 33240

caatatctgg aacagttcaa agtgctcatc ttattataag atttgacgaa aatggagtgc 33300

tactaaacaa ttccttcctg gacccagaat attggaactt tagaaatgga gatcttactg 33360

aaggcacagc ctatacaaac gctgttggat ttatgcctaa cctatcagct tatccaaaat 33420

ctcacggtaa aactgccaaa agtaacattg tcagtcaagt ttacttaaac ggagacaaaa 33480

ctaaacctgt aacactaacc attacactaa acggtacaca ggaaacagga gacacaactc 33540

caagtgcata ctctatgtca ttttcatggg actggtctgg ccacaactac attaatgaaa 33600

tatttgccac atcctcttac acttttttcat acattgccca agaataaaga atcgtttgtg 33660

ttatgtttca acgtgtttat ttttcaattg cagaaaattt cgaatcattt ttcattcagt 33720

agtatagccc caccaccaca tagcttatac agatcaccgt accttaatca aactcacaga 33780

accctagtat tcaacctgcc acctccctcc caacacacag agtacacagt cctttctccc 33840

cggctggcct taaaaagcat catatcatgg gtaacagaca tattcttagg tgttatattc 33900

cacacggttt cctgtcgagc caaacgctca tcagtgatat taataaactc cccgggcagc 33960

tcacttaagt tcatgtcgct gtccagctgc tgagccacag gctgctgtcc aacttgcggt 34020

tgcttaacgg gcggcgaagg agaagtccac gcctacatgg gggtagagtc ataatcgtgc 34080

atcaggatag ggcggtggtg ctgcagcagc gcgcgaataa actgctgccg ccgccgctcc 34140

gtcctgcagg aatacaacat ggcagtggtc tcctcagcga tgattcgcac cgcccgcagc 34200

ataaggcgcc ttgtcctccg ggcacagcag cgcaccctga tctcacttaa atcagcacag 34260

taactgcagc acagcaccac aatattgttc aaaatcccac agtgcaaggc gctgtatcca 34320

aagctcatgg cggggaccac agaacccacg tggccatcat accacaagcg caggtagatt 34380

aagtggcgac ccctcataaa cacgctggac ataaacatta cctcttttgg catgttgtaa 34440

ttcaccacct cccggtacca tataaacctc tgattaaaca tggcgccatc caccaccatc 34500

ctaaaccagc tggccaaaac ctgcccgccg gctatacact gcagggaacc gggactggaa 34560

caatgacagt ggagagccca ggactcgtaa ccatggatca tcatgctcgt catgatatca 34620

atgttggcac aacacaggca cacgtgcata cacttcctca ggattacaag ctcctcccgc 34680

gttagaacca tatcccaggg aacaacccat tcctgaatca gcgtaaatcc cacactgcag 34740

ggaagacctc gcacgtaact cacgttgtgc attgtcaaag tgttacattc gggcagcagc 34800

ggatgatcct ccagtatggt agcgcgggtt tctgtctcaa aaggaggtag acgatcccta 34860

ctgtacggag tgcgccgaga caaccgagat cgtgttggtc gtagtgtcat gccaaatgga 34920

acgccggacg tagtcatatt tcctgaagca aaaccaggtg cgggcgtgac aaacagatct 34980

gcgtctccgg tctcgccgct tagatcgctc tgtgtagtag ttgtagtata tccactctct 35040

caaagcatcc aggcgccccc tggcttcggg ttctatgtaa actccttcat gcgccgctgc 35100

cctgataaca tccaccaccg cagaataagc cacacccagc caacctacac attcgttctg 35160

cgagtcacac acgggaggag cgggaagagc tggaagaacc atgtttttt ttttattcca 35220

aaagattatc caaaacctca aaatgaagat ctattaagtg aacgcgctcc cctccggtgg 35280

cgtggtcaaa ctctacagcc aaagaacaga taatggcatt tgtaagatgt tgcacaatgg 35340

cttccaaaag gcaaacggcc ctcacgtcca agtggacgta aaggctaaac ccttcagggt 35400

gaatctcctc tataaacatt ccagcacctt caaccatgcc caaataattc tcatctcgcc 35460

accttctcaa tatatctcta agcaaatccc gaatattaag tccggccatt gtaaaaatct 35520

gctccagagc gccctccacc ttcagcctca agcagcgaat catgattgca aaaattcagg 35580

ttcctcacag acctgtataa gattcaaaag cggaacatta acaaaaatac cgcgatcccg 35640

taggtccctt cgcagggcca gctgaacata atcgtgcagg tctgcacgga ccagcgcggc 35700

cacttccccg ccaggaacct tgacaaaaga acccacactg attatgacac gcatactcgg 35760

agctatgcta accagcgtag ccccgatgta agctttgttg catgggcggc gatataaaat 35820

gcaaggtgct gctcaaaaaa tcaggcaaag cctcgcgcaa aaaagaaagc acatcgtagt 35880

catgctcatg cagataaagg caggtaagct ccggaaccac cacagaaaaa gacaccattt 35940

ttctctcaaa catgtctgcg ggtttctgca taaacacaaa ataaaataac aaaaaaacat 36000

ttaaacatta gaagcctgtc ttacaacagg aaaaacaacc cttataagca taagacggac 36060

tacggccatg ccggcgtgac cgtaaaaaaa ctggtcaccg tgattaaaaa gcaccaccga 36120

cagctcctcg gtcatgtccg gagtcataat gtaagactcg gtaaacacat caggttgatt 36180

cacatcggtc agtgctaaaa agcgaccgaa atagcccggg ggaatacata cccgcaggcg 36240

tagagacaac attacagccc ccataggagg tataacaaaa ttaataggag agaaaaacac 36300

ataaacacct gaaaaaccct cctgcctagg caaaatagca ccctcccgct ccagaacaac 36360

atacagcgct tccacagcgg cagccataac agtcagcctt accagtaaaa aagaaaacct 36420

attaaaaaaa caccactcga cacggcacca gctcaatcag tcacagtgta aaaaagggcc 36480

aagtgcagag cgagtatata taggactaaa aaatgacgta acggttaaag tccacaaaaa 36540

acacccagaa aaccgcacgc gaacctacgc ccagaaacga aagccaaaaa acccacaact 36600

tcctcaaatc gtcacttccg ttttcccacg ttacgtcact tcccatttta agaaaactac 36660

aattcccaac acatacaagt tactccgccc taaaacctac gtcacccgcc ccgttcccac 36720

gccccgcgcc acgtcacaaa ctccaccccc tcattatcat attggcttca atccaaaata 36780

aggtatatta ttgatgatgt taattaaggg cggccgcacg ggccatcgat ggggatccat 36840

ccgcggagaa gcttctcgac caattctcat gtttgacagc ttatcatcga atttctgcca 36900

ttcatccgct tattatcact tattcaggcg tagcaaccag gcgtttaagg gcaccaataa 36960

ctgccttaaa aaaattacgc cccgccctgc cactcatcgc agtactgttg taattcatta 37020

agcattctgc cgacatggaa gccatcacag acggcatgat gaacctgaat cgccagcggc 37080

atcagcacct tgtcgccttg cgtataatat ttgcccatgg tgaaaacggg ggcgaagaag 37140

ttgtccatat tggccacgtt taaatcaaaa ctggtgaaac tcacccaggg attggctgag 37200

acgaaaaaca tattctcaat aaacccttta gggaaatagg ccaggttttc accgtaacac 37260

gccacatctt gcgaatatat gtgtagaaac tgccggaaat cgtcgtggta ttcactccag 37320

agcgatgaaa acgtttcagt ttgctcatgg aaaacggtgt aacaagggtg aacactatcc 37380

catatcacca gctcaccgtc tttcattgcc atacggaatt ccggatgagc attcatcagg 37440

cgggcaagaa tgtgaataaa ggccggataa aacttgtgct tatttttctt tacggtcttt 37500

aaaaaggccg taatatccag ctgaacggtc tggttatagg tacattgagc aactgactga 37560

aatgcctcaa aatgttcttt acgatgccat tgggatatat caacggtggt atatccagtg 37620

atttttttct ccattttagc ttccttagct cctgaaaatc tcgataactc aaaaaatacg 37680

cccggtagtg atcttatttc attatggtga aagttggaac ctcttacgtg ccgatcaacg 37740

tctcattttc gccaaaagtt ggcccagggc ttcccggtat caacagggac accaggattt 37800

atttattctg cgaagtgatc ttccgtcaca ggtatttatt cgcgataagc tcatggagcg 37860

gcgtaaccgt cgcacaggaa ggacagagaa agcgcggatc tgggaagtga cggacagaac 37920

ggtcaggacc tggattgggg aggcggttgc cgccgctgct gctgacggtg tgacgttctc 37980

tgttccggtc acaccacata cgttccgcca ttcctatgcg atgcacatgc tgtatgccgg 38040

tataccgctg aaagttctgc aaagcctgat gggacataag tccatcagtt caacggaagt 38100

ctacacgaag gtttttgcgc tggatgtggc tgcccggcac cgggtgcagt ttgcgatgcc 38160

ggagtctgat gcggttgcga tgctgaaaca attatcctga gaataaatgc cttggccttt 38220

atatggaaat gtggaactga gtggatatgc tgtttttgtc tgttaaacag agaagctggc 38280

tgttatccac tgagaagcga acgaaacagt cgggaaaatc tcccattatc gtagagatcc 38340

gcattattaa tctcaggagc ctgtgtagcg tttataggaa gtagtgttct gtcatgatgc 38400

ctgcaagcgg taacgaaaac gatttgaata tgccttcagg aacaatagaa atcttcgtgc 38460

ggtgttacgt tgaagtggag cggattatgt cagcaatgga cagaacaacc taatgaacac 38520

agaaccatga tgtggtctgt ccttttacag ccagtaggct cgccgcagtc gagcgacggc 38580

gaagccctcg agtgagcgag gaagcaccag ggaacagcac ttatatattc tgcttacaca 38640

cgatgcctga aaaaacttcc cttggggtta tccacttatc cacggggata tttttataat 38700

tatttttttt atagttttta gatcttcttt tttagagcgc cttgtaggcc tttatccatg 38760

ctggttctag agaaggtgtt gtgacaaatt gcccttttcag tgtgacaaat caccctcaaa 38820

tgacagtcct gtctgtgaca aattgccctt aaccctgtga caaattgccc tcagaagaag 38880

ctgtttttttc acaaagttat ccctgcttat tgactctttt ttatttagtg tgacaatcta 38940

aaaacttgtc acacttcaca tggatctgtc atggcggaaa cagcggttat caatcacaag 39000

aaacgtaaaa atagcccgcg aatcgtccag tcaaacgacc tcactgaggc ggcatatagt 39060

ctctcccggg atcaaaaacg tatgctgtat ctgttcgttg accagatcag aaaatctgat 39120

ggcaccctac aggaacatga cggtatctgc gagatccatg ttgctaaata tgctgaaata 39180

ttcggattga cctctgcgga agccagtaag gatatacggc aggcattgaa gagtttcgcg 39240

gggaaggaag tggtttttta tcgccctgaa gaggatgccg gcgatgaaaa aggctatgaa 39300

tcttttcctt ggtttatcaa acgtgcgcac agtccatcca gagggcttta cagtgtacat 39360

atcaacccat atctcattcc cttctttatc gggttacaga accggtttac gcagtttcgg 39420

cttagtgaaa caaaagaaat caccaatccg tatgccatgc gtttatacga atccctgtgt 39480

cagtatcgta agccggatgg ctcaggcatc gtctctctga aaatcgactg gatcatagag 39540

cgttaccagc tgcctcaaag ttaccagcgt atgcctgact tccgccgccg cttcctgcag 39600

gtctgtgtta atgagatcaa cagcagaact ccaatgcgcc tctcatacat tgagaaaaag 39660

aaaggccgcc agacgactca tatcgtattt tccttccgcg atatcacttc catgacgaca 39720

ggatagtctg agggttatct gtcacagatt tgagggtggt tcgtcacatt tgttctgacc 39780

tactgagggt aatttgtcac agttttgctg tttccttcag cctgcatgga ttttctcata 39840

ctttttgaac tgtaattttt aaggaagcca aatttgaggg cagtttgtca cagttgattt 39900

ccttctcttt cccttcgtca tgtgacctga tatcgggggt tagttcgtca tcattgatga 39960

gggttgatta tcacagttta ttactctgaa ttggctatcc gcgtgtgtac ctctacctgg 40020

agtttttccc acggtggata tttcttcttg cgctgagcgt aagagctatc tgacagaaca 40080

gttcttcttt gcttcctcgc cagttcgctc gctatgctcg gttacacggc tgcggcgagc 40140

gctagtgata ataagtgact gaggtatgtg ctcttcttat ctccttttgt agtgttgctc 40200

ttattttaaa caactttgcg gttttttgat gactttgcga ttttgttgtt gctttgcagt 40260

aaattgcaag atttaataaa aaaacgcaaa gcaatgatta aaggatgttc agaatgaaac 40320

tcatggaaac acttaaccag tgcataaacg ctggtcatga aatgacgaag gctatcgcca 40380

ttgcacagtt taatgatgac agcccggaag cgaggaaaat aacccggcgc tggagaatag 40440

gtgaagcagc ggatttagtt ggggtttctt ctcaggctat cagagatgcc gagaaagcag 40500

ggcgactacc gcacccggat atggaaattc gaggacgggt tgagcaacgt gttggttata 40560

caattgaaca aattaatcat atgcgtgatg tgtttggtac gcgattgcga cgtgctgaag 40620

acgtatttcc accggtgatc ggggttgctg cccataaagg tggcgtttac aaaacctcag 40680

tttctgttca tcttgctcag gatctggctc tgaaggggct acgtgttttg ctcgtggaag 40740

gtaacgaccc ccagggaaca gcctcaatgt atcacggatg ggtaccagat cttcatattc 40800

atgcagaaga cactctcctg cctttctatc ttggggaaaa ggacgatgtc acttatgcaa 40860

taaagcccac ttgctggccg gggcttgaca ttattccttc ctgtctggct ctgcaccgta 40920

ttgaaactga gttaatgggc aaatttgatg aaggtaaact gcccaccgat ccacacctga 40980

tgctccgact ggccattgaa actgttgctc atgactatga tgtcatagtt attgacagcg 41040

cgcctaacct gggtatcggc acgattaatg tcgtatgtgc tgctgatgtg ctgattgttc 41100

ccacgcctgc tgagttgttt gactacacct ccgcactgca gtttttcgat atgcttcgtg 41160

atctgctcaa gaacgttgat cttaaagggt tcgagcctga tgtacgtatt ttgcttacca 41220

aatacagcaa tagtaatggc tctcagtccc cgtggatgga ggagcaaatt cgggatgcct 41280

ggggaagcat ggttctaaaa aatgttgtac gtgaaacgga tgaagttggt aaaggtcaga 41340

tccggatgag aactgttttt gaacaggcca ttgatcaacg ctcttcaact ggtgcctgga 41400

gaaatgctct ttctatttgg gaacctgtct gcaatgaaat tttcgatcgt ctgattaaac 41460

cacgctggga gattagataa tgaagcgtgc gcctgttatt ccaaaacata cgctcaatac 41520

tcaaccggtt gaagatactt cgttatcgac accagctgcc ccgatggtgg attcgttaat 41580

tgcgcgcgta ggagtaatgg ctcgcggtaa tgccattact ttgcctgtat gtggtcggga 41640

tgtgaagttt actcttgaag tgctccgggg tgatagtgtt gagaagacct ctcgggtatg 41700

gtcaggtaat gaacgtgacc aggagctgct tactgaggac gcactggatg atctcatccc 41760

ttcttttcta ctgactggtc aacagacacc ggcgttcggt cgaagagtat ctggtgtcat 41820

agaaattgcc gatgggagtc gccgtcgtaa agctgctgca cttaccgaaa gtgattatcg 41880

tgttctggtt ggcgagctgg atgatgagca gatggctgca ttatccagat tgggtaacga 41940

ttatcgccca acaagtgctt atgaacgtgg tcagcgttat gcaagccgat tgcagaatga 42000

atttgctgga aatatttctg cgctggctga tgcggaaaat atttcacgta agattattac 42060

ccgctgtatc aacaccgcca aattgcctaa atcagttgtt gctctttttt ctcaccccgg 42120

tgaactatct gcccggtcag gtgatgcact tcaaaaagcc tttacagata aagaggaatt 42180

acttaagcag caggcatcta accttcatga gcagaaaaaa gctggggtga tatttgaagc 42240

tgaagaagtt atcactcttt taacttctgt gcttaaaacg tcatctgcat caagaactag 42300

tttaagctca cgacatcagt ttgctcctgg agcgacagta ttgtataagg gcgataaaat 42360

ggtgcttaac ctggacaggt ctcgtgttcc aactgagtgt atagagaaaa ttgaggccat 42420

tcttaaggaa cttgaaaagc cagcaccctg atgcgaccac gttttagtct acgtttatct 42480

gtctttactt aatgtccttt gttacaggcc agaaagcata actggcctga atattctctc 42540

tgggcccact gttccacttg tatcgtcggt ctgataatca gactgggacc acggtcccac 42600

tcgtatcgtc ggtctgatta ttagtctggg accacggtcc cactcgtatc gtcggtctga 42660

ttattagtct gggaccacgg tcccactcgt atcgtcggtc tgataatcag actgggacca 42720

cggtcccact cgtatcgtcg gtctgattat tagtctggga ccatggtccc actcgtatcg 42780

tcggtctgat tattagtctg ggaccacggt cccactcgta tcgtcggtct gattattagt 42840

ctggaaccac ggtcccactc gtatcgtcgg tctgattatt agtctgggac cacggtccca 42900

ctcgtatcgt cggtctgatt attagtctgg gaccacgatc ccactcgtgt tgtcggtctg 42960

attatcggtc tgggaccacg gtcccacttg tattgtcgat cagactatca gcgtgagact 43020

acgattccat caatgcctgt caagggcaag tattgacatg tcgtcgtaac ctgtagaacg 43080

gagtaacctc ggtgtgcggt tgtatgcctg ctgtggattg ctgctgtgtc ctgcttatcc 43140

acaacatttt gcgcacggtt atgtggacaa aatacctggt tacccaggcc gtgccggcac 43200

gttaaccggg ctgcatccga tgcaagtgtg tcgctgtcga gttttcgggg gagtccaggg 43260

ttttcccagt cacgacgttg taaaacgacg gccagtgaat tcgagctcgg tacccgggga 43320

tctt 43324

<210> 13
<211> 36680
<212> DNA
<213> Artificial

<220>
<223> synthetic

<220>
<221> misc_feature
<222> (27952)..(27952)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (30222)..(30223)
<223> n is a, c, g, or t

<400> 13
catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60

ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt 120

gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg 180

gtgtgcgccg gtgtacacag gaagtgacaa ttttcgcgcg gttttaggcg gatgttgtag 240

taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga 300

agtgaaatct gaataatttt gtgttactca tagcgcgtaa actggtaccc ggggatcttg 360

aagttcctat tccgaagttc ctattctcta gaaagtatag gaacttcaag agcgcttttg 420

agcttgttta tcgaattcaa gcttgtcgac tcgaagatct gggcgtggtt aagggtggga 480

aagaatatat aaggtggggg tcttatgtag ttttgtatct gttttgcagc agccgccgcc 540

gccatgagca ccaactcgtt tgatggaagc attgtgagct catatttgac aacgcgcatg 600

cccccatggg ccggggtgcg tcagaatgtg atgggctcca gcattgatgg tcgccccgtc 660

ctgcccgcaa actctactac cttgacctac gagaccgtgt ctggaacgcc gttggagact 720

gcagcctccg ccgccgcttc agccgctgca gccaccgccc gcgggattgt gactgacttt 780

gctttcctga gcccgcttgc aagcagtgca gcttcccgtt catccgcccg cgatgacaag 840

ttgacggctc ttttggcaca attggattct ttgacccggg aacttaatgt cgtttctcag 900

cagctgttgg atctgcgcca gcaggtttct gccctgaagg cttcctcccc tcccaatgcg 960

gtttaaaaca taaataaaaa accagactct gtttggattt ggatcaagca agtgtcttgc 1020

tgtctttatt taggggtttt gcgcgcgcgg taggcccggg accagcggtc tcggtcgttg 1080

agggtcctgt gtatttttc caggacgtgg taaaggtgac tctggatgtt cagatacatg 1140

ggcataagcc cgtctctggg gtggaggtag caccactgca gagcttcatg ctgcggggtg 1200

gtgttgtaga tgatccagtc gtagcaggag cgctgggcgt ggtgcctaaa aatgtctttc 1260

agtagcaagc tgattgccag gggcaggccc ttggtgtaag tgtttacaaa gcggttaagc 1320

tgggatgggt gcatacgtgg ggatatgaga tgcatcttgg actgtatttt taggttggct 1380

atgttcccag ccatatccct ccggggattc atgttgtgca gaaccaccag cacagtgtat 1440

ccggtgcact tgggaaattt gtcatgtagc ttagaaggaa atgcgtggaa gaacttggag 1500

acgcccttgt gacctccaag attttccatg cattcgtcca taatgatggc aatgggccca 1560

cgggcggcgg cctgggcgaa gatatttctg ggatcactaa cgtcatagtt gtgttccagg 1620

atgagatcgt cataggccat ttttacaaag cgcgggcgga gggtgccaga ctgcggtata 1680

atggttccat ccggcccagg ggcgtagtta ccctcacaga tttgcatttc ccacgctttg 1740

agttcagatg gggggatcat gtctacctgc ggggcgatga agaaaacggt ttccggggta 1800

ggggagatca gctgggaaga aagcaggttc ctgagcagct gcgacttacc gcagccggtg 1860

ggcccgtaaa tcacacctat taccgggtgc aactggtagt taagagagct gcagctgccg 1920

tcatccctga gcagggggggc cacttcgtta agcatgtccc tgactcgcat gttttccctg 1980

accaaatccg ccagaaggcg ctcgccgccc agcgatagca gttcttgcaa ggaagcaaag 2040

tttttcaacg gtttgagacc gtccgccgta ggcatgcttt tgagcgtttg accaagcagt 2100

tccaggcggt cccacagctc ggtcacctgc tctacggcat ctcgatccag catatctcct 2160

cgtttcgcgg gttggggcgg ctttcgctgt acggcagtag tcggtgctcg tccagacggg 2220

ccagggtcat gtctttccac gggcgcaggg tcctcgtcag cgtagtctgg gtcacggtga 2280

aggggtgcgc tccgggctgc gcgctggcca gggtgcgctt gaggctggtc ctgctggtgc 2340

tgaagcgctg ccggtcttcg ccctgcgcgt cggccaggta gcatttgacc atggtgtcat 2400

agtccagccc ctccgcggcg tggcccttgg cgcgcagctt gcccttggag gaggcgccgc 2460

acgaggggca gtgcagactt ttgagggcgt agagcttggg cgcgagaaat accgattccg 2520

gggagtaggc atccgcgccg caggccccgc agacggtctc gcattccacg agccaggtga 2580

gctctggccg ttcggggtca aaaaccaggt ttcccccatg ctttttgatg cgtttcttac 2640

ctctggtttc catgagccgg tgtccacgct cggtgacgaa aaggctgtcc gtgtccccgt 2700

atacagactt gagaggcctg tcctcgagcg gtgttccgcg gtcctcctcg tatagaaact 2760

cggaccactc tgagacaaag gctcgcgtcc aggccagcac gaaggaggct aagtgggagg 2820

ggtagcggtc gttgtccact agggggtcca ctcgctccag ggtgtgaaga cacatgtcgc 2880

cctcttcggc atcaaggaag gtgattggtt tgtaggtgta ggccacgtga ccgggtgttc 2940

ctgaaggggg gctataaaag ggggtggggg cgcgttcgtc ctcactctct tccgcatcgc 3000

tgtctgcgag ggccagctgt tggggtgagt actccctctg aaaagcgggc atgacttctg 3060

cgctaagatt gtcagtttcc aaaaacgagg aggatttgat attcacctgg cccgcggtga 3120

tgcctttgag ggtggccgca tccatctggt cagaaaagac aatcttttg ttgtcaagct 3180

tggtggcaaa cgacccgtag agggcgttgg acagcaactt ggcgatggag cgcagggttt 3240

ggtttttgtc gcgatcggcg cgctccttgg ccgcgatgtt tagctgcacg tattcgcgcg 3300

caacgcaccg ccattcggga aagacggtgg tgcgctcgtc gggcaccagg tgcacgcgcc 3360

aaccgcggtt gtgcagggtg acaaggtcaa cgctggtggc tacctctccg cgtaggcgct 3420

cgttggtcca gcagaggcgg ccgcccttgc gcgagcagaa tggcggtagg gggtctagct 3480

gcgtctcgtc cgggggggtct gcgtccacgg taaagacccc gggcagcagg cgcgcgtcga 3540

agtagtctat cttgcatcct tgcaagtcta gcgcctgctg ccatgcgcgg gcggcaagcg 3600

cgcgctcgta tgggttgagt gggggacccc atggcatggg gtgggtgagc gcggaggcgt 3660

acatgccgca aatgtcgtaa acgtagaggg gctctctgag tattccaaga tatgtagggt 3720

agcatcttcc accgcggatg ctggcgcgca cgtaatcgta tagttcgtgc gagggagcga 3780

ggaggtcggg accgaggttg ctacgggcgg gctgctctgc tcggaagact atctgcctga 3840

agatggcatg tgagttggat gatatggttg gacgctggaa gacgttgaag ctggcgtctg 3900

tgagacctac cgcgtcacgc acgaaggagg cgtaggagtc gcgcagcttg ttgaccagct 3960

cggcggtgac ctgcacgtct agggcgcagt agtccagggt ttccttgatg atgtcatact 4020

tatcctgtcc ctttttttttc cacagctcgc ggttgaggac aaactcttcg cggtctttcc 4080

agtactcttg gatcggaaac ccgtcggcct ccgaacggta agagcctagc atgtagaact 4140

ggttgacggc ctggtaggcg cagcatccct tttctacggg tagcgcgtat gcctgcgcgg 4200

ccttccggag cgaggtgtgg gtgagcgcaa aggtgtccct gaccatgact ttgaggtact 4260

ggtatttgaa gtcagtgtcg tcgcatccgc cctgctccca gagcaaaaag tccgtgcgct 4320

ttttggaacg cggatttggc agggcgaagg tgacatcgtt gaagagtatc tttcccgcgc 4380

gaggcataaa gttgcgtgtg atgcggaagg gtcccggcac ctcggaacgg ttgttaatta 4440

cctgggcggc gagcacgatc tcgtcaaagc cgttgatgtt gtggcccaca atgtaaagtt 4500

ccaagaagcg cgggatgccc ttgatggaag gcaatttttt aagttcctcg taggtgagct 4560

cttcagggga gctgagcccg tgctctgaaa gggcccagtc tgcaagatga gggttggaag 4620

cgacgaatga gctccacagg tcacgggcca ttagcatttg caggtggtcg cgaaaggtcc 4680

taaactggcg acctatggcc atttttttctg gggtgatgca gtagaaggta agcgggtctt 4740

gttcccagcg gtcccatcca aggttcgcgg ctaggtctcg cgcggcagtc actagaggct 4800

catctccgcc gaacttcatg accagcatga agggcacgag ctgcttccca aaggccccca 4860

tccaagtata ggtctctaca tcgtaggtga caaagagacg ctcggtgcga ggatgcgagc 4920

cgatcgggaa gaactggatc tcccgccacc aattggagga gtggctattg atgtggtgaa 4980

agtagaagtc cctgcgacgg gccgaacact cgtgctggct tttgtaaaaa cgtgcgcagt 5040

actggcagcg gtgcacgggc tgtacatcct gcacgaggtt gacctgacga ccgcgcacaa 5100

ggaagcagag tgggaatttg agcccctcgc ctggcgggtt tggctggtgg tcttctactt 5160

cggctgcttg tccttgaccg tctggctgct cgaggggagt tacggtggat cggaccacca 5220

cgccgcgcga gcccaaagtc cagatgtccg cgcgcggcgg tcggagcttg atgacaacat 5280

cgcgcagatg ggagctgtcc atggtctgga gctcccgcgg cgtcaggtca ggcgggagct 5340

cctgcaggtt tacctcgcat agacgggtca gggcgcgggc tagatccagg tgatacctaa 5400

tttccagggg ctggttggtg gcggcgtcga tggcttgcaa gaggccgcat ccccgcggcg 5460

cgactacggt accgcgcggc gggcggtggg ccgcgggggt gtccttggat gatgcatcta 5520

aaagcggtga cgcgggcgag cccccggagg taggggggge tccggacccg ccgggagagg 5580

gggcaggggc acgtcggcgc cgcgcgcggg caggagctgg tgctgcgcgc gtaggttgct 5640

ggcgaacgcg acgacgcggc ggttgatctc ctgaatctgg cgcctctgcg tgaagacgac 5700

gggcccggtg agcttgagcc tgaaagagag ttcgacagaa tcaatttcgg tgtcgttgac 5760

ggcggcctgg cgcaaaatct cctgcacgtc tcctgagttg tcttgatagg cgatctcggc 5820

catgaactgc tcgatctctt cctcctggag atctccgcgt ccggctcgct ccacggtggc 5880

ggcgaggtcg ttggaaatgc gggccatgag ctgcgagaag gcgttgaggc ctccctcgtt 5940

ccagacgcgg ctgtagacca cgccccttc ggcatcgcgg gcgcgcatga ccacctgcgc 6000

gagattgagc tccacgtgcc gggcgaagac ggcgtagttt cgcaggcgct gaaagaggta 6060

gttgagggtg gtggcggtgt gttctgccac gaagaagtac ataacccagc gtcgcaacgt 6120

ggattcgttg atatccccca aggcctcaag gcgctccatg gcctcgtaga agtccacggc 6180

gaagttgaaa aactgggagt tgcgcgccga cacggttaac tcctcctcca gaagacggat 6240

gagctcggcg acagtgtcgc gcacctcgcg ctcaaaggct acaggggcct cttcttcttc 6300

ttcaatctcc tcttccataa gggcctcccc ttcttcttct tctggcggcg gtgggggagg 6360

ggggacacgg cggcgacgac ggcgcaccgg gaggcggtcg acaaagcgct cgatcatctc 6420

cccgcggcga cggcgcatgg tctcggtgac ggcgcggccg ttctcgcggg ggcgcagttg 6480

gaagacgccg cccgtcatgt cccggttatg ggttggcggg gggctgccat gcggcaggga 6540

tacggcgcta acgatgcatc tcaacaattg ttgtgtaggt actccgccgc cgagggacct 6600

gagcgagtcc gcatcgaccg gatcggaaaa cctctcgaga aaggcgtcta accagtcaca 6660

gtcgcaaggt aggctgagca ccgtggcggg cggcagcggg cggcggtcgg ggttgtttct 6720

ggcggaggtg ctgctgatga tgtaattaaa gtaggcggtc ttgagacggc ggatggtcga 6780

cagaagcacc atgtccttgg gtccggcctg ctgaatgcgc aggcggtcgg ccatgcccca 6840

ggcttcgttt tgacatcggc gcaggtcttt gtagtagtct tgcatgagcc tttctaccgg 6900

cacttcttct tctccttcct cttgtcctgc atctcttgca tctatcgctg cggcggcggc 6960

ggagtttggc cgtaggtggc gccctcttcc tcccatgcgt gtgaccccga agcccctcat 7020

cggctgaagc agggctaggt cggcgacaac gcgctcggct aatatggcct gctgcacctg 7080

cgtgagggta gactggaagt catccatgtc cacaaagcgg tggtatgcgc ccgtgttgat 7140

ggtgtaagtg cagttggcca taacggacca gttaacggtc tggtgacccg gctgcgagag 7200

ctcggtgtac ctgagacgcg agtaagccct cgagtcaaat acgtagtcgt tgcaagtccg 7260

caccaggtac tggtatccca ccaaaaagtg cggcggcggc tggcggtaga ggggccagcg 7320

tagggtggcc ggggctccgg gggcgagatc ttccaacata aggcgatgat atccgtagat 7380

gtacctggac atccaggtga tgccggcggc ggtggtggag gcgcgcggaa agtcgcggac 7440

gcggttccag atgttgcgca gcggcaaaaa gtgctccatg gtcgggacgc tctggccggt 7500

caggcgcgcg caatcgttga cgctctaccg tgcaaaagga gagcctgtaa gcgggcactc 7560

ttccgtggtc tggtggataa attcgcaagg gtatcatggc ggacgaccgg ggttcgagcc 7620

ccgtatccgg ccgtccgccg tgatccatgc ggttaccgcc cgcgtgtcga acccaggtgt 7680

gcgacgtcag acaacggggg agtgctcctt ttggcttcct tccaggcgcg gcggctgctg 7740

cgctagcttt tttggccact ggccgcgcgc agcgtaagcg gttaggctgg aaagcgaaag 7800

cattaagtgg ctcgctccct gtagccggag ggttattttc caagggttga gtcgcgggac 7860

ccccggttcg agtctcggac cggccggact gcggcgaacg ggggtttgcc tccccgtcat 7920

gcaagacccc gcttgcaaat tcctccggaa acagggacga gccccttttt tgcttttccc 7980

agatgcatcc ggtgctgcgg cagatgcgcc cccctcctca gcagcggcaa gagcaagagc 8040

agcggcagac atgcagggca ccctcccctc ctcctaccgc gtcaggaggg gcgacatccg 8100

cggttgacgc ggcagcagat ggtgattacg aacccccgcg gcgccgggcc cggcactacc 8160

tggacttgga ggagggcgag ggcctggcgc ggctaggagc gccctctcct gagcggtacc 8220

caagggtgca gctgaagcgt gatacgcgtg aggcgtacgt gccgcggcag aacctgtttc 8280

gcgaccgcga gggagaggag cccgaggaga tgcgggatcg aaagttccac gcagggcgcg 8340

agctgcggca tggcctgaat cgcgagcggt tgctgcgcga ggaggacttt gagcccgacg 8400

cgcgaaccgg gattagtccc gcgcgcgcac acgtggcggc cgccgacctg gtaaccgcat 8460

acgagcagac ggtgaaccag gagattaact ttcaaaaaag ctttaacaac cacgtgcgta 8520

cgcttgtggc gcgcgaggag gtggctatag gactgatgca tctgtgggac tttgtaagcg 8580

cgctggagca aaacccaaat agcaagccgc tcatggcgca gctgttcctt atagtgcagc 8640

acagcaggga caacgaggca ttcagggatg cgctgctaaa catagtagag cccgagggcc 8700

gctggctgct cgatttgata aacatcctgc agagcatagt ggtgcaggag cgcagcttga 8760

gcctggctga caaggtggcc gccatcaact attccatgct tagcctgggc aagttttacg 8820

cccgcaagat ataccatacc ccttacgttc ccatagacaa ggaggtaaag atcgaggggt 8880

tctacatgcg catggcgctg aaggtgctta ccttgagcga cgacctgggc gtttatcgca 8940

acgagcgcat ccacaaggcc gtgagcgtga gccggcggcg cgagctcagc gaccgcgagc 9000

tgatgcacag cctgcaaagg gccctggctg gcacgggcag cggcgataga gaggccgagt 9060

cctactttga cgcgggcgct gacctgcgct gggccccaag ccgacgcgcc ctggaggcag 9120

ctggggccgg acctgggctg gcggtggcac ccgcgcgcgc tggcaacgtc ggcggcgtgg 9180

aggaatatga cgaggacgat gagtacgagc cagaggacgg cgagtactaa gcggtgatgt 9240

ttctgatcag atgatgcaag acgcaacgga cccggcggtg cgggcggcgc tgcagagcca 9300

gccgtccggc cttaactcca cggacgactg gcgccaggtc atggaccgca tcatgtcgct 9360

gactgcgcgc aatcctgacg cgttccggca gcagccgcag gccaaccggc tctccgcaat 9420

tctggaagcg gtggtcccgg cgcgcgcaaa ccccacgcac gagaaggtgc tggcgatcgt 9480

aaacgcgctg gccgaaaaca gggccatccg gcccgacgag gccggcctgg tctacgacgc 9540

gctgcttcag cgcgtggctc gttacaacag cggcaacgtg cagaccaacc tggaccggct 9600

ggtgggggat gtgcgcgagg ccgtggcgca gcgtgagcgc gcgcagcagc agggcaacct 9660

gggctccatg gttgcactaa acgccttcct gagtacacag cccgccaacg tgccgcgggg 9720

acaggaggac tacaccaact ttgtgagcgc actgcggcta atggtgactg agacaccgca 9780

aagtgaggtg taccagtctg ggccagacta ttttttccag accagtagac aaggcctgca 9840

gaccgtaaac ctgagccagg ctttcaaaaa cttgcagggg ctgtgggggg tgcgggctcc 9900

cacaggcgac cgcgcgaccg tgtctagctt gctgacgccc aactcgcgcc tgttgctgct 9960

gctaatagcg cccttcacgg acagtggcag cgtgtcccgg gacacatacc taggtcactt 10020

gctgacactg taccgcgagg ccataggtca ggcgcatgtg gacgagcata ctttccagga 10080

gattacaagt gtcagccgcg cgctggggca ggaggacacg ggcagcctgg aggcaaccct 10140

aaactacctg ctgaccaacc ggcggcagaa gatcccctcg ttgcacagtt taaacagcga 10200

ggaggagcgc attttgcgct acgtgcagca gagcgtgagc cttaacctga tgcgcgacgg 10260

ggtaacgccc agcgtggcgc tggacatgac cgcgcgcaac atggaaccgg gcatgtatgc 10320

ctcaaaccgg ccgtttatca accgcctaat ggactacttg catcgcgcgg ccgccgtgaa 10380

ccccgagtat ttcaccaatg ccatcttgaa cccgcactgg ctaccgcccc ctggtttcta 10440

caccgggggа ttcgaggtgc ccgagggtaa cgatggattc ctctgggacg acatagacga 10500

cagcgtgttt tccccgcaac cgcagaccct gctagagttg caacagcgcg agcaggcaga 10560

ggcggcgctg cgaaaggaaa gcttccgcag gccaagcagc ttgtccgatc taggcgctgc 10620

ggccccgcgg tcagatgcta gtagcccatt tccaagcttg atagggtctc ttaccagcac 10680

tcgcaccacc cgcccgcgcc tgctgggcga ggaggagtac ctaaacaact cgctgctgca 10740

gccgcagcgc gaaaaaaacc tgcctccggc atttcccaac aacgggatag agagcctagt 10800

ggacaagatg agtagatgga agacgtacgc gcaggagcac agggacgtgc caggcccgcg 10860

cccgcccacc cgtcgtcaaa ggcacgaccg tcagcggggt ctggtgtggg aggacgatga 10920

ctcggcagac gacagcagcg tcctggattt gggagggagt ggcaacccgt ttgcgcacct 10980

tcgccccagg ctggggagaa tgttttaaaa aaaaaaaagc atgatgcaaa ataaaaaact 11040

caccaaggcc atggcaccga gcgttggttt tcttgtattc cccttagtat gcggcgcgcg 11100

gcgatgtatg aggaaggtcc tcctccctcc tacgagagtg tggtgagcgc ggcgccagtg 11160

gcggcggcgc tgggttctcc cttcgatgct cccctggacc cgccgtttgt gcctccgcgg 11220

tacctgcggc ctaccggggg gagaaacagc atccgttact ctgagttggc acccctattc 11280

gacaccaccc gtgtgtacct ggtggacaac aagtcaacgg atgtggcatc cctgaactac 11340

cagaacgacc acagcaactt tctgaccacg gtcattcaaa acaatgacta cagcccgggg 11400

gaggcaagca cacagaccat caatcttgac gaccggtcgc actggggcgg cgacctgaaa 11460

accatcctgc ataccaacat gccaaatgtg aacgagttca tgtttaccaa taagtttaag 11520

gcgcgggtga tggtgtcgcg cttgcctact aaggacaatc aggtggagct gaaatacgag 11580

tgggtggagt tcacgctgcc cgagggcaac tactccgaga ccatgaccat agaccttatg 11640

aacaacgcga tcgtggagca ctacttgaaa gtgggcagac agaacggggt tctggaaagc 11700

gacatcgggg taaagtttga cacccgcaac ttcagactgg ggtttgaccc cgtcactggt 11760

cttgtcatgc ctggggtata tacaaacgaa gccttccatc cagacatcat tttgctgcca 11820

ggatgcgggg tggacttcac ccacagccgc ctgagcaact tgttgggcat ccgcaagcgg 11880

caacccttcc aggagggctt taggatcacc tacgatgatc tggagggtgg taacattccc 11940

gcactgttgg atgtggacgc ctaccaggcg agcttgaaag atgacaccga acagggcggg 12000

ggtggcgcag gcggcagcaa cagcagtggc agcggcgcgg aagagaactc caacgcggca 12060

gccgcggcaa tgcagccggt ggaggacatg aacgatcatg ccattcgcgg cgacaccttt 12120

gccacacggg ctgaggagaa gcgcgctgag gccgaagcag cggccgaagc tgccgccccc 12180

gctgcgcaac ccgaggtcga gaagcctcag aagaaaccgg tgatcaaacc cctgacagag 12240

gacagcaaga aacgcagtta caacctaata agcaatgaca gcaccttcac ccagtaccgc 12300

agctggtacc ttgcatacaa ctacggcgac cctcagaccg gaatccgctc atggaccctg 12360

ctttgcactc ctgacgtaac ctgcggctcg gagcaggtct actggtcgtt gccagacatg 12420

atgcaagacc ccgtgacctt ccgctccacg cgccagatca gcaactttcc ggtggtgggc 12480

gccgagctgt tgcccgtgca ctccaagagc ttctacaacg accaggccgt ctactcccaa 12540

ctcatccgcc agtttacctc tctgacccac gtgttcaatc gctttcccga gaaccagatt 12600

ttggcgcgcc cgccagcccc caccatcacc accgtcagtg aaaacgttcc tgctctcaca 12660

gatcacggga cgctaccgct gcgcaacagc atcggaggag tccagcgagt gaccattact 12720

gacgccagac gccgcacctg cccctacgtt tacaaggccc tgggcatagt ctcgccgcgc 12780

gtcctatcga gccgcacttt ttgagcaagc atgtccatcc ttatatcgcc cagcaataac 12840

acaggctggg gcctgcgctt cccaagcaag atgtttggcg gggccaagaa gcgctccgac 12900

caacacccag tgcgcgtgcg cgggcactac cgcgcgccct ggggcgcgca caaacgcggc 12960

cgcactgggc gcaccaccgt cgatgacgcc atcgacgcgg tggtggagga ggcgcgcaac 13020

tacacgccca cgccgccacc agtgtccaca gtggacgcgg ccattcagac cgtggtgcgc 13080

ggagcccggc gctatgctaa aatgaagaga cggcggaggc gcgtagcacg tcgccaccgc 13140

cgccgacccg gcactgccgc ccaacgcgcg gcggcggccc tgcttaaccg cgcacgtcgc 13200

accggccgac gggcggccat gcgggccgct cgaaggctgg ccgcgggtat tgtcactgtg 13260

ccccccaggt ccaggcgacg agcggccgcc gcagcagccg cggccattag tgctatgact 13320

cagggtcgca ggggcaacgt gtattgggtg cgcgactcgg ttagcggcct gcgcgtgccc 13380

gtgcgcaccc gccccccgcg caactagatt gcaagaaaaa actacttaga ctcgtactgt 13440

tgtatgtatc cagcggcggc ggcgcgcaac gaagctatgt ccaagcgcaa aatcaaagaa 13500

gagatgctcc aggtcatcgc gccggagatc tatggccccc cgaagaagga agagcaggat 13560

tacaagcccc gaaagctaaa gcgggtcaaa aagaaaaaga aagatgatga tgatgaactt 13620

gacgacgagg tggaactgct gcacgctacc gcgcccaggc gacgggtaca gtggaaaggt 13680

cgacgcgtaa aacgtgtttt gcgacccggc accaccgtag tctttacgcc cggtgagcgc 13740

tccacccgca cctacaagcg cgtgtatgat gaggtgtacg gcgacgagga cctgcttgag 13800

caggccaacg agcgcctcgg ggagtttgcc tacggaaagc ggcataagga catgctggcg 13860

ttgccgctgg acgagggcaa cccaacacct agcctaaagc ccgtaacact gcagcaggtg 13920

ctgcccgcgc ttgcaccgtc cgaagaaaag cgcggcctaa agcgcgagtc tggtgacttg 13980

gcacccaccg tgcagctgat ggtacccaag cgccagcgac tggaagatgt cttggaaaaa 14040

atgaccgtgg aacctgggct ggagcccgag gtccgcgtgc ggccaatcaa gcaggtggcg 14100

ccgggactgg gcgtgcagac cgtggacgtt cagataccca ctaccagtag caccagtatt 14160

gccaccgcca cagagggcat ggagacacaa acgtccccgg ttgcctcagc ggtggcggat 14220

gccgcggtgc aggcggtcgc tgcggccgcg tccaagacct ctacggaggt gcaaacggac 14280

ccgtggatgt ttcgcgtttc agccccccgg cgcccgcgcg gttcgaggaa gtacggcgcc 14340

gccagcgcgc tactgcccga atatgcccta catccttcca ttgcgcctac ccccggctat 14400

cgtggctaca cctaccgccc cagaagacga gcaactaccc gacgccgaac caccactgga 14460

acccgccgcc gccgtcgccg tcgccagccc gtgctggccc cgatttccgt gcgcagggtg 14520

gctcgcgaag gaggcaggac cctggtgctg ccaacagcgc gctaccaccc cagcatcgtt 14580

taaaagccgg tctttgtggt tcttgcagat atggccctca cctgccgcct ccgtttcccg 14640

gtgccgggat tccgaggaag aatgcaccgt aggaggggca tggccggcca cggcctgacg 14700

ggcggcatgc gtcgtgcgca ccaccggcgg cggcgcgcgt cgcaccgtcg catgcgcggc 14760

ggtatcctgc ccctccttat tccactgatc gccgcggcga ttggcgccgt gcccggaatt 14820

gcatccgtgg ccttgcaggc gcagagacac tgattaaaaa caagttgcat gtggaaaaat 14880

caaaataaaa agtctggact ctcacgctcg cttggtcctg taactatttt gtagaatgga 14940

agacatcaac tttgcgtctc tggccccgcg acacggctcg cgcccgttca tgggaaactg 15000

gcaagatatc ggcaccagca atatgagcgg tggcgccttc agctggggct cgctgtggag 15060

cggcattaaa aatttcggtt ccaccgttaa gaactatggc agcaaggcct ggaacagcag 15120

cacaggccag atgctgaggg ataagttgaa agagcaaaat ttccaacaaa aggtggtaga 15180

tggcctggcc tctggcatta gcggggtggt ggacctggcc aaccaggcag tgcaaaataa 15240

gattaacagt aagcttgatc cccgccctcc cgtagaggag cctccaccgg ccgtggagac 15300

agtgtctcca gaggggcgtg gcgaaaagcg tccgcgcccc gacagggaag aaactctggt 15360

gacgcaaata gacgagcctc cctcgtacga ggaggcacta aagcaaggcc tgcccaccac 15420

ccgtcccatc gcgcccatgg ctaccggagt gctgggccag cacacacccg taacgctgga 15480

cctgcctccc cccgccgaca cccagcagaa acctgtgctg ccaggcccga ccgccgttgt 15540

tgtaacccgt cctagccgcg cgtccctgcg ccgcgccgcc agcggtccgc gatcgttgcg 15600

gcccgtagcc agtggcaact ggcaaagcac actgaacagc atcgtgggtc tgggggtgca 15660

atccctgaag cgccgacgat gcttctgaat agctaacgtg tcgtatgtgt gtcatgtatg 15720

cgtccatgtc gccgccagag gagctgctga gccgccgcgc gcccgctttc caagatggct 15780

acccccttcga tgatgccgca gtggtcttac atgcacatct cgggccagga cgcctcggag 15840

tacctgagcc ccgggctggt gcagtttgcc cgcgccaccg agacgtactt cagcctgaat 15900

aacaagttta gaaaccccac ggtggcgcct acgcacgacg tgaccacaga ccggtcccag 15960

cgtttgacgc tgcggttcat ccctgtggac cgtgaggata ctgcgtactc gtacaaggcg 16020

cggttcaccc tagctgtggg tgataaccgt gtgctggaca tggcttccac gtactttgac 16080

atccgcggcg tgctggacag gggccctact tttaagccct actctggcac tgcctacaac 16140

gccctggctc ccaagggtgc cccaaatcct tgcgaatggg atgaagctgc tactgctctt 16200

gaaataaacc tagaagaaga ggacgatgac aacgaagacg aagtagacga gcaagctgag 16260

cagcaaaaaa ctcacgtatt tgggcaggcg ccttattctg gtataaatat tacaaaggag 16320

ggtattcaaa taggtgtcga aggtcaaaca cctaaatatg ccgataaaac atttcaacct 16380

gaacctcaaa taggagaatc tcagtggtac gaaactgaaa ttaatcatgc agctgggaga 16440

gtccttaaaa agactacccc aatgaaacca tgttacggtt catatgcaaa acccacaaat 16500

gaaaatggag ggcaaggcat tcttgtaaag caacaaaatg gaaagctaga aagtcaagtg 16560

gaaatgcaat ttttctcaac tactgaggcg accgcaggca atggtgataa cttgactcct 16620

aaagtggtat tgtacagtga agatgtagat atagaaaccc cagacactca tatttcttac 16680

atgcccacta ttaaggaagg taactcacga gaactaatgg gccaacaatc tatgcccaac 16740

aggcctaatt acattgcttt tagggacaat tttattggtc taatgtatta caacagcacg 16800

ggtaatatgg gtgttctggc gggccaagca tcgcagttga atgctgttgt agatttgcaa 16860

gacagaaaca cagagctttc ataccagctt ttgcttgatt ccattggtga tagaaccagg 16920

tacttttcta tgtggaatca ggctgttgac agctatgatc cagatgttag aattattgaa 16980

aatcatggaa ctgaagatga acttccaaat tactgctttc cactgggagg tgtgattaat 17040

acagagactc ttaccaaggt aaaacctaaa acaggtcagg aaaatggatg ggaaaaagat 17100

gctacagaat tttcagataa aaatgaaata agagttggaa ataattttgc catggaaatc 17160

aatctaaatg ccaacctgtg gagaaatttc ctgtactcca acatagcgct gtatttgccc 17220

gacaagctaa agtacagtcc ttccaacgta aaaatttctg ataacccaaa cacctacgac 17280

tacatgaaca agcgagtggt ggctcccggg ttagtggact gctacattaa ccttggagca 17340

cgctggtccc ttgactatat ggacaacgtc aacccattta accaccaccg caatgctggc 17400

ctgcgctacc gctcaatgtt gctgggcaat ggtcgctatg tgcccttcca catccaggtg 17460

cctcagaagt tctttgccat taaaaacctc cttctcctgc cgggctcata cacctacgag 17520

tggaacttca ggaaggatgt taacatggtt ctgcagagct ccctaggaaa tgacctaagg 17580

gttgacggag ccagcattaa gtttgatagc atttgccttt acgccacctt cttccccatg 17640

gcccacaaca ccgcctccac gcttgaggcc atgcttagaa acgacaccaa cgaccagtcc 17700

tttaacgact atctctccgc cgccaacatg ctctacccta tacccgccaa cgctaccaac 17760

gtgcccatat ccatcccctc ccgcaactgg gcggctttcc gcggctgggc cttcacgcgc 17820

cttaagacta aggaaacccc atcactgggc tcgggctacg acccttatta cacctactct 17880

ggctctatac cctacctaga tggaaccttt tacctcaacc acacctttaa gaaggtggcc 17940

attacctttg actcttctgt cagctggcct ggcaatgacc gcctgcttac ccccaacgag 18000

tttgaaatta agcgctcagt tgacggggag ggttacaacg ttgcccagtg taacatgacc 18060

aaagactggt tcctggtaca aatgctagct aactacaaca ttggctacca gggcttctat 18120

atcccagaga gctacaagga ccgcatgtac tccttcttta gaaacttcca gcccatgagc 18180

cgtcaggtgg tggatgatac taaatacaag gactaccaac aggtgggcat cctacaccaa 18240

cacaacaact ctggatttgt tggctacctt gcccccacca tgcgcgaagg acaggcctac 18300

cctgctaact tcccctatcc gcttataggc aagaccgcag ttgacagcat tacccagaaa 18360

aagtttcttt gcgatcgcac cctttggcgc atcccattct ccagtaactt tatgtccatg 18420

ggcgcactca cagacctggg ccaaaacctt ctctacgcca actccgccca cgcgctagac 18480

atgacttttg aggtggatcc catggacgag cccacccttc tttatgtttt gtttgaagtc 18540

tttgacgtgg tccgtgtgca ccggccgcac cgcggcgtca tcgaaaccgt gtacctgcgc 18600

acgcccttct cggccggcaa cgccacaaca taaagaagca agcaacatca acaacagctg 18660

ccgccatggg ctccagtgag caggaactga aagccattgt caaagatctt ggttgtgggc 18720

catatttttt gggcacctat gacaagcgct ttccaggctt tgtttctcca cacaagctcg 18780

cctgcgccat agtcaatacg gccggtcgcg agactggggg cgtacactgg atggcctttg 18840

cctggaaccc gcactcaaaa acatgctacc tctttgagcc ctttggcttt tctgaccagc 18900

gactcaagca ggtttaccag tttgagtacg agtcactcct gcgccgtagc gccattgctt 18960

cttcccccga ccgctgtata acgctggaaa agtccaccca aagcgtacag gggcccaact 19020

cggccgcctg tggactattc tgctgcatgt ttctccacgc ctttgccaac tggccccaaa 19080

ctcccatgga tcacaacccc accatgaacc ttattaccgg ggtacccaac tccatgctca 19140

acagtcccca ggtacagccc accctgcgtc gcaaccagga acagctctac agcttcctgg 19200

agcgccactc gccctacttc cgcagccaca gtgcgcagat taggagcgcc acttcttttt 19260

gtcacttgaa aaacatgtaa aaataatgta ctagagacac tttcaataaa ggcaaatgct 19320

tttatttgta cactctcggg tgattattta cccccaccct tgccgtctgc gccgtttaaa 19380

aatcaaaggg gttctgccgc gcatcgctat gcgccactgg cagggacacg ttgcgatact 19440

ggtgtttagt gctccactta aactcaggca caaccatccg cggcagctcg gtgaagtttt 19500

cactccacag gctgcgcacc atcaccaacg cgtttagcag gtcgggcgcc gatatcttga 19560

agtcgcagtt ggggcctccg ccctgcgcgc gcgagttgcg atacacaggg ttgcagcact 19620

ggaacactat cagcgccggg tggtgcacgc tggccagcac gctcttgtcg gagatcagat 19680

ccgcgtccag gtcctccgcg ttgctcaggg cgaacggagt caactttggt agctgccttc 19740

ccaaaaaggg cgcgtgccca ggctttgagt tgcactcgca ccgtagtggc atcaaaaggt 19800

gaccgtgccc ggtctgggcg ttaggataca gcgcctgcat aaaagccttg atctgcttaa 19860

aagccacctg agcctttgcg ccttcagaga agaacatgcc gcaagacttg ccggaaaact 19920

gattggccgg acaggccgcg tcgtgcacgc agcaccttgc gtcggtgttg gagatctgca 19980

ccacatttcg gccccaccgg ttcttcacga tcttggcctt gctagactgc tccttcagcg 20040

cgcgctgccc gttttcgctc gtcacatcca tttcaatcac gtgctcctta tttatcataa 20100

tgcttccgtg tagacactta agctcgcctt cgatctcagc gcagcggtgc agccacaacg 20160

cgcagcccgt gggctcgtga tgcttgtagg tcacctctgc aaacgactgc aggtacgcct 20220

gcaggaatcg ccccatcatc gtcacaaagg tcttgttgct ggtgaaggtc agctgcaacc 20280

cgcggtgctc ctcgttcagc caggtcttgc atacggccgc cagagcttcc acttggtcag 20340

gcagtagttt gaagttcgcc tttagatcgt tatccacgtg gtacttgtcc atcagcgcgc 20400

gcgcagcctc catgcccttc tcccacgcag acacgatcgg cacactcagc gggttcatca 20460

ccgtaatttc actttccgct tcgctgggct cttcctcttc ctcttgcgtc cgcataccac 20520

gcgccactgg gtcgtcttca ttcagccgcc gcactgtgcg cttacctcct ttgccatgct 20580

tgattagcac cggtgggttg ctgaaaccca ccatttgtag cgccacatct tctctttctt 20640

cctcgctgtc cacgattacc tctggtgatg gcgggcgctc gggcttggga gaagggcgct 20700

tctttttctt cttgggcgca atggccaaat ccgccgccga ggtcgatggc cgcgggctgg 20760

gtgtgcgcgg caccagcgcg tcttgtgatg agtcttcctc gtcctcggac tcgatacgcc 20820

gcctcatccg ctttttgggg ggcgcccggg gaggcggcgg cgacggggac ggggacgaca 20880

cgtcctccat ggttgggggа cgtcgcgccg caccgcgtcc gcgctcgggg gtggtttcgc 20940

gctgctcctc ttcccgactg gccatttcct tctcctatag gcagaaaaag atcatggagt 21000

cagtcgagaa gaaggacagc ctaaccgccc cctctgagtt cgccaccacc gcctccaccg 21060

atgccgccaa cgcgcctacc accttccccg tcgaggcacc cccgcttgag gaggaggaag 21120

tgattatcga gcaggaccca ggttttgtaa gcgaagacga cgaggaccgc tcagtaccaa 21180

cagaggataa aaagcaagac caggacaacg cagaggcaaa cgaggaacaa gtcgggcggg 21240

gggacgaaag gcatggcgac tacctagatg tgggagacga cgtgctgttg aagcatctgc 21300

agcgccagtg cgccattatc tgcgacgcgt tgcaagagcg cagcgatgtg cccctcgcca 21360

tagcggatgt cagccttgcc tacgaacgcc acctattctc accgcgcgta ccccccaaac 21420

gccaagaaaa cggcacatgc gagcccaacc cgcgcctcaa cttctacccc gtatttgccg 21480

tgccagaggt gcttgccacc tatcacatct ttttccaaaa ctgcaagata cccctatcct 21540

gccgtgccaa ccgcagccga gcggacaagc agctggcctt gcggcagggc gctgtcatac 21600

ctgatatcgc ctcgctcaac gaagtgccaa aaatctttga gggtcttgga cgcgacgaga 21660

agcgcgcggc aaacgctctg caacaggaaa acagcgaaaa tgaaagtcac tctggagtgt 21720

tggtggaact cgagggtgac aacgcgcgcc tagccgtact aaaacgcagc atcgaggtca 21780

cccactttgc ctacccggca cttaacctac cccccaaggt catgagcaca gtcatgagtg 21840

agctgatcgt gcgccgtgcg cagcccctgg agagggatgc aaatttgcaa gaacaaacag 21900

aggagggcct acccgcagtt ggcgacgagc agctagcgcg ctggcttcaa acgcgcgagc 21960

ctgccgactt ggaggagcga cgcaaactaa tgatggccgc agtgctcgtt accgtggagc 22020

ttgagtgcat gcagcggttc tttgctgacc cggagatgca gcgcaagcta gaggaaacat 22080

tgcactacac ctttcgacag ggctacgtac gccaggcctg caagatctcc aacgtggagc 22140

tctgcaacct ggtctcctac cttggaattt tgcacgaaaa ccgccttggg caaaacgtgc 22200

ttcattccac gctcaagggc gaggcgcgcc gcgactacgt ccgcgactgc gtttacttat 22260

ttctatgcta cacctggcag acggccatgg gcgtttggca gcagtgcttg gaggagtgca 22320

acctcaagga gctgcagaaa ctgctaaagc aaaacttgaa ggacctatgg acggccttca 22380

acgagcgctc cgtggccgcg cacctggcgg acatcatttt ccccgaacgc ctgcttaaaa 22440

ccctgcaaca gggtctgcca gacttcacca gtcaaagcat gttgcagaac tttaggaact 22500

ttatcctaga gcgctcagga atcttgcccg ccacctgctg tgcacttcct agcgactttg 22560

tgcccattaa gtaccgcgaa tgccctccgc cgctttgggg ccactgctac cttctgcagc 22620

tagccaacta ccttgcctac cactctgaca taatggaaga cgtgagcggt gacggtctac 22680

tggagtgtca ctgtcgctgc aacctatgca ccccgcaccg ctccctggtt tgcaattcgc 22740

agctgcttaa cgaaagtcaa attatcggta cctttgagct gcagggtccc tcgcctgacg 22800

aaaagtccgc ggctccgggg ttgaaactca ctccggggct gtggacgtcg gcttaccttc 22860

gcaaatttgt acctgaggac taccacgccc acgagattag gttctacgaa gaccaatccc 22920

gcccgccaaa tgcggagctt accgcctgcg tcattaccca gggccacatt cttggccaat 22980

tgcaagccat caacaaagcc cgccaagagt ttctgctacg aaagggacgg ggggtttact 23040

tggaccccca gtccggcgag gagctcaacc caatcccccc gccgccgcag ccctatcagc 23100

agcagccgcg ggcccttgct tcccaggatg gcacccaaaa agaagctgca gctgccgccg 23160

ccacccacgg acgaggagga atactgggac agtcaggcag aggaggtttt ggacgaggag 23220

gaggaggaca tgatggaaga ctgggagagc ctagacgagg aagcttccga ggtcgaagag 23280

gtgtcagacg aaacaccgtc accctcggtc gcattccgct cgccggcgcc ccagaaatcg 23340

gcaaccggtt ccagcatggc tacaacctcc gctcctcagg cgccgccggc actgcccgtt 23400

cgccgaccca accgtagatg ggacaccact ggaaccaggg ccggtaagtc caagcagccg 23460

ccgccgttag cccaagagca acaacagcgc caaggctacc gctcatggcg cgggcacaag 23520

aacgccatag ttgcttgctt gcaagactgt gggggcaaca tctccttcgc ccgccgcttt 23580

cttctctacc atcacggcgt ggccttcccc cgtaacatcc tgcattacta ccgtcatctc 23640

tacagcccat actgcaccgg cggcagcggc agcggcagca acagcagcgg ccacacagaa 23700

gcaaaggcga ccggatagca agactctgac aaagcccaag aaatccacag cggcggcagc 23760

agcaggagga ggagcgctgc gtctggcgcc caacgaaccc gtatcgaccc gcgagcttag 23820

aaacaggatt tttcccactc tgtatgctat atttcaacag agcaggggcc aagaacaaga 23880

gctgaaaata aaaaacaggt ctctgcgatc cctcacccgc agctgcctgt atcacaaaag 23940

cgaagatcag cttcggcgca cgctggaaga cgcggaggct ctcttcagta aatactgcgc 24000

gctgactctt aaggactagt ttcgcgccct ttctcaaatt taagcgcgaa aactacgtca 24060

tctccagcgg ccacacccgg cgccagcacc tgtcgtcagc gccattatga gcaaggaaat 24120

tcccacgccc tacatgtgga gttaccagcc acaaatggga cttgcggctg gagctgccca 24180

agactactca acccgaataa actacatgag cgcgggaccc cacatgatat cccgggtcaa 24240

cggaatccgc gcccaccgaa accgaattct cttggaacag gcggctatta ccaccacacc 24300

tcgtaataac cttaatcccc gtagttggcc cgctgccctg gtgtaccagg aaagtcccgc 24360

tcccaccact gtggtacttc ccagagacgc ccaggccgaa gttcagatga ctaactcagg 24420

ggcgcagctt gcgggcggct ttcgtcacag ggtgcggtcg cccgggcagg gtataactca 24480

cctgacaatc agagggcgag gtattcagct caacgacgag tcggtgagct cctcgcttgg 24540

tctccgtccg gacgggacat ttcagatcgg cggcgccggc cgtccttcat tcacgcctcg 24600

tcaggcaatc ctaactctgc agacctcgtc ctctgagccg cgctctggag gcattggaac 24660

tctgcaattt attgaggagt ttgtgccatc ggtctacttt aacccccttct cgggacctcc 24720

cggccactat ccggatcaat ttattcctaa ctttgacgcg gtaaaggact cggcggacgg 24780

ctacgactga atgttaagtg gagaggcaga gcaactgcgc ctgaaacacc tggtccactg 24840

tcgccgccac aagtgctttg cccgcgactc cggtgagttt tgctactttg aattgcccga 24900

ggatcatatc gagggcccgg cgcacggcgt ccggcttacc gcccagggag agcttgcccg 24960

tagcctgatt cgggagttta cccagcgccc cctgctagtt gagcgggaca ggggaccctg 25020

tgttctcact gtgatttgca actgtcctaa ccttggatta catcaagatc ctctagttat 25080

aactagagta cccggggatc ttattccctt taactaataa aaaaaaataa taaagcatca 25140

cttacttaaa atcagttagc aaatttctgt ccagtttatt cagcagcacc tccttgccct 25200

cctcccagct ctggtattgc agcttcctcc tggctgcaaa ctttctccac aatctaaatg 25260

gaatgtcagt ttcctcctgt tcctgtccat ccgcacccac tatcttcatg ttgttgcaga 25320

tgaagcgcgc aagaccgtct gaagatacct tcaaccccgt gtatccatat gacacggaaa 25380

ccggtcctcc aactgtgcct tttcttactc ctccctttgt atcccccaat gggtttcaag 25440

agagtccccc tggggtactc tctttgcgcc tatccgaacc tctagttacc tccaatggca 25500

tgcttgcgct caaaatgggc aacggcctct ctctggacga ggccggcaac cttacctccc 25560

aaaatgtaac cactgtgagc ccacctctca aaaaaaccaa gtcaaacata aacctggaaa 25620

tatctgcacc cctcacagtt acctcagaag ccctaactgt ggctgccgcc gcacctctaa 25680

tggtcgcggg caacacactc accatgcaat cacaggcccc gctaaccgtg cacgactcca 25740

aacttagcat tgccacccaa ggacccctca cagtgtcaga aggaaagcta gccctgcaaa 25800

catcaggccc cctcaccacc accgatagca gtacccttac tatcactgcc tcacccccctc 25860

taactactgc cactggtagc ttgggcattg acttgaaaga gcccatttat acacaaaatg 25920

gaaaactagg actaaagtac ggggctcctt tgcatgtaac agacgaccta aacactttga 25980

ccgtagcaac tggtccaggt gtgactatta ataatacttc cttgcaaact aaagttactg 26040

gagccttggg ttttgattca caaggcaata tgcaacttaa tgtagcagga ggactaagga 26100

ttgattctca aaacagacgc cttatacttg atgttagtta tccgtttgat gctcaaaacc 26160

aactaaatct aagactagga cagggccctc tttttataaa ctcagcccac aacttggata 26220

ttaactacaa caaaggcctt tacttgttta cagcttcaaa caattccaaa aagcttgagg 26280

ttaacctaag cactgccaag gggttgatgt ttgacgctac agccatagcc attaatgcag 26340

gagatgggct tgaatttggt tcacctaatg caccaaacac aaatcccctc aaaacaaaaa 26400

ttggccatgg cctagaattt gattcaaaca aggctatggt tcctaaacta ggaactggcc 26460

ttagttttga cagcacaggt gccattacag taggaaacaa aaataatgat aagctaactt 26520

tgtggaccac accagctcca tctcctaact gtagactaaa tgcagagaaa gatgctaaac 26580

tcactttggt cttaacaaaa tgtggcagtc aaatacttgc tacagtttca gttttggctg 26640

ttaaaggcag tttggctcca atatctggaa cagttcaaag tgctcatctt attataagat 26700

ttgacgaaaa tggagtgcta ctaaacaatt ccttcctgga cccagaatat tggaacttta 26760

gaaatggaga tcttactgaa ggcacagcct atacaaacgc tgttggattt atgcctaacc 26820

tatcagctta tccaaaatct cacggtaaaa ctgccaaaag taacattgtc agtcaagttt 26880

acttaaacgg agacaaaact aaacctgtaa cactaaccat tacactaaac ggtacacagg 26940

aaacaggaga cacaactcca agtgcatact ctatgtcatt ttcatgggac tggtctggcc 27000

acaactacat taatgaaata tttgccacat cctcttacac tttttcatac attgcccaag 27060

aataaagaat cgtttgtgtt atgtttcaac gtgtttattt ttcaattgca gaaaatttca 27120

agtcattttt cattcagtag tatagcccca ccaccacata gcttatacag atcaccgtac 27180

cttaatcaaa ctcacagaac cctagtattc aacctgccac ctccctccca acacacagag 27240

tacacagtcc tttctccccg gctggcctta aaaagcatca tatcatgggt aacagacata 27300

ttcttaggtg ttatattcca cacggtttcc tgtcgagcca aacgctcatc aagtgatatt 27360

aataaactcc ccgggcagct cacttaagtt catgtcgctg tccagctgct gagccacagg 27420

ctgctgtcca acttgcggtt gcttaacggg cggcgaagga gaagtccacg cctacatggg 27480

gggagagtca taatcgtgca tcaggatagg gcggtggtgc tgcagcagcg cgcgaataaa 27540

ctgctgccgc cgccgctccg tcctgcagga atacaacatg gcagtggtct cctcagcgat 27600

gattcgcacc gcccgcagca taaggcgctt gtcctccggg cacagcagcg caccctgatc 27660

tcacttaaat cagcacagta actgcagcac agcaccacaa tattgttcaa aatcccacag 27720

tgcaaggcgc tgtatccaaa gctcatggcg gggaccacag aacccacgtg gccatcatac 27780

cacaagcgca ggtagattaa gtggcgaccc ctcataaaca cgctggacat aaacattacc 27840

tcttttggca tgttgtaatt caccacctcc cggtaccata taaacctctg attaaacatg 27900

gcgccatcca ccaccatcct aaaccagctg gccaaaacct gccccgccgg gntatacact 27960

gcagggaacc gggacttgga caatgacaag tgggagagcc caggactcgt aaccatggat 28020

catcatgctc gtcatgatat caatgttggc acaacacagg cacacgtgca tacacttcct 28080

caggattaca agctcctccc gcgttagaac catatcccag ggaacaaccc attcctgaat 28140

cagcgtaaat cccacactgc agggaagacc tcgcacgtaa ctcacgttgt gcattgtcaa 28200

agtgttacat tcgggcagca gcggatgatc ctccagtatg gtagcgcggg tttctgtctc 28260

aaaaggaggt agacgatccc tactgtacgg agtgcgccga gacaaccgag atcgtgttgg 28320

tcgtagtgtc atgccaaatg gaacgccgga cgtagtcata tttcctgaag caaaaccagg 28380

tgcgggcgtg acaaacagat ctgcgtctcc ggtctcgccg cttagatcgc tctgtgtagt 28440

agttgtagta tatccactct ctcaaagcat ccaggcgccc cctggcttcg ggttctatgt 28500

aaactccttc atgcgccgct gccctgataa catccaccac cgcagaataa gccacaccca 28560

gccaacctac acattcgttc tgcgagtcac acacgggagg agcgggaaga gctggaagaa 28620

ccatgttttt ttttttattc caaaagatta tccaaaacct caaaatgaag atctattaag 28680

tgaacgcgct cccctccggt ggcgtggtca aactctacag ccaaagaaca gataatggca 28740

tttgtaagat gttgcacaat ggcttccaaa aggcaaacgg ccctcacgtc caagtggacg 28800

taaaggctaa acccttcagg gtgaatctcc tctataaaca ttccagcacc ttcaaccatg 28860

cccaaataat tctcatctcg ccaccttctc aatatatctc taagcaaatc ccgaatattt 28920

aagtccgggc cattgtaaaa aatttggctc cagagcgccc tccaccttca gcctcaagca 28980

gcgaatcatg attgcaaaaa ttcaggttcc tcacagacct gtataagatt caaaagcgga 29040

acattaacaa aaataccgcg atcccgtagg tcccttcgca gggccagctg aacataatcg 29100

tgcaggtctg cacggaccag cgcggccact tccccgccag gaaccatgac aaaagaaccc 29160

acactgatta tgacacgcat actcggagct atgctaacca gcgtagcccc gatgtaagct 29220

tgttgcatgg gcggcgatat aaaatgcaag gtgctgctca aaaaatcagg caaagcctcg 29280

cgcaaaaaag aaagcacatc gtagtcatgc tcatgcagat aaaggcaggt aagctccgga 29340

accaccacag aaaaagacac catttttctc tcaaacatgt ctgcgggttt ctgcataaac 29400

acaaaataaa ataacaaaaa aacatttaaa cattagaagc ctgtcttaca acaggaaaaa 29460

caacccttat aagcataaga cggactacgg ccatgccggc gtgaccgtaa aaaaactggt 29520

caccgtgatt aaaaagcacc accgacagct cctcggtcag tccggagtca taatgtaaga 29580

ctcggtaaac acatcaggtt gattcacatc ggtcagtgtt aaaaagcgac cgaaatagcc 29640

cgggggaata catacccgca ggcgtagaga caacattaca gcccccatag gaggtataac 29700

aaaattaata ggagagaaaa acacataaac acctgaaaaa ccctcctgcc taggcaaaat 29760

agcaccctcc cgctccagaa caacatacag cgcttcacag cggcagccta acagtcagcc 29820

ttaccagtaa aaaagaaaac ctattaaaaa aacaccactc gacacggcac cagctcaatc 29880

agtcacagtg taaaaaaggg ccaagtgcag agcgagtata taggacta aaaaatgacg 29940

taacggttaa agtccacaaa aaacacccag aaaaccgcac gcgaacctac gcccagaaac 30000

gaaagccaaa aaacccacaa cttcctcaaa tcgtcacttc cgttttccca cgttacgtaa 30060

cttcccattt taagaaaact acaattccca acacatacaa gttactccgc cctaaaacct 30120

acgtcacccg ccccgttccc acgccccgcg ccacgtcaca aactccaccc cctcattatc 30180

atattggctt caatccaaaa taaggtatat tattgatgat gnnttaatta agggcggccg 30240

cacgggccat cgatggatcc gcggaagctt ctcgacccat tctcatgttt gacagcttat 30300

catcgaattt ctgccattca tccgcttatt atcacttatt caggcgtagc aaccaggcgt 30360

ttaagggcac caataactgc cttaaaaaaa ttacgccccg ccctgccact catcgcagta 30420

ctgttgtaat tcattaagca ttctgccgac atggaagcca tcacagacgg catgatgaac 30480

ctgaatcgcc agcggcatca gcaccttgtc gccttgcgta taatatttgc ccatggtgaa 30540

aacgggggcg aagaagttgt ccatattggc cacgtttaaa tcaaaactgg tgaaactcac 30600

ccagggattg gctgagacga aaaacatatt ctcaataaac cctttaggga aataggccag 30660

gttttcaccg taacacgcca catcttgcga atatatgtgt agaaactgcc ggaaatcgtc 30720

gtggtattca ctccagagcg atgaaaacgt ttcagtttgc tcatggaaaa cggtgtaaca 30780

agggtgaaca ctatcccata tcaccagctc accgtctttc attgccatac ggaattccgg 30840

atgagcattc atcaggcggg caagaatgtg aataaaggcc ggataaaact tgtgcttatt 30900

tttctttacg gtctttaaaa aggccgtaat atccagctga acggtctggt tataggtaca 30960

ttgagcaact gactgaaatg cctcaaaatg ttctttacga tgccattggg atatatcaac 31020

ggtggtatat ccagtgattt ttttctccat tttagcttcc ttagctcctg aaaatctcga 31080

taactcaaaa aatacgcccg gtagtgatct tatttcatta tggtgaaagt tggaacctct 31140

tacgtgccga tcaacgtctc attttcgcca aaagttggcc cagggcttcc cggtatcaac 31200

agggacacca ggatttattt attctgcgaa gtgatcttcc gtcacaggta tttattcgcg 31260

ataagctcat ggagcggcgt aaccgtcgca caggaaggac agagaaagcg cggatctggg 31320

aagtgacgga cagaacggtc aggacctgga ttggggaggc ggttgccgcc gctgctgctg 31380

acggtgtgac gttctctgtt ccggtcacac cacatacgtt ccgccattcc tatgcgatgc 31440

acatgctgta tgccggtata ccgctgaaag ttctgcaaag cctgatggga cataagtcca 31500

tcagttcaac ggaagtctac acgaaggttt ttgcgctgga tgtggctgcc cggcaccggg 31560

tgcagtttgc gatgccggag tctgatgcgg ttgcgatgct gaaacaatta tcctgagaat 31620

aaatgccttg gcctttatat ggaaatgtgg aactgagtgg atatgctgtt tttgtctgtt 31680

aaacagagaa gctggctgtt atccactgag aagcgaacga aacagtcggg aaaatctccc 31740

attatcgtag agatccgcat tattaatctc aggagcctgt gtagcgttta taggaagtag 31800

tgttctgtca tgatgcctgc aagcggtaac gaaaacgatt tgaatatgcc ttcaggaaca 31860

atagaaatct tcgtgcggtg ttacgttgaa gtggagcgga ttatgtcagc aatggacaga 31920

acaacctaat gaacacagaa ccatgatgtg gtctgtcctt ttacagccag taggctcgcc 31980

gcagtcgagc gacggcgaag ccctcgagtg agcgaggaag caccagggaa cagcacttat 32040

atattctgct tacacacgat gcctgaaaaa acttcccttg gggttatcca cttatccacg 32100

gggatatttt tataattatt ttttttatag tttttagatc ttctttttta gagcgccttg 32160

taggccttta tccatgctgg ttctagagaa ggtgttgtga caaattgccc tttcagtgtg 32220

acaaatcacc ctcaaatgac agtcctgtct gtgacaaatt gcccttaacc ctgtgacaaa 32280

ttgccctcag aagaagctgt tttttcacaa agttatccct gcttattgac tctttttttat 32340

ttagtgtgac aatctaaaaa cttgtcacac ttcacatgga tctgtcatgg cggaaacagc 32400

ggttatcaat cacaagaaac gtaaaaatag cccgcgaatc gtccagtcaa acgacctcac 32460

tgaggcggca tatagtctct cccgggatca aaaacgtatg ctgtatctgt tcgttgacca 32520

gatcagaaaa tctgatggca ccctacagga acatgacggt atctgcgaga tccatgttgc 32580

taaatatgct gaaatattcg gattgacctc tgcggaagcc agtaaggata tacggcaggc 32640

attgaagagt ttcgcgggga aggaagtggt tttttatcgc cctgaagagg atgccggcga 32700

tgaaaaaggc tatgaatctt ttccttggtt tatcaaacgt gcgcacagtc catccagagg 32760

gctttacagt gtacatatca acccatatct cattcccttc tttatcgggt tacagaaccg 32820

gtttacgcag tttcggctta gtgaaacaaa agaaatcacc aatccgtatg ccatgcgttt 32880

atacgaatcc ctgtgtcagt atcgtaagcc ggatggctca ggcatcgtct ctctgaaaat 32940

cgactggatc atagagcgtt accagctgcc tcaaagttac cagcgtatgc ctgacttccg 33000

ccgccgcttc ctgcaggtct gtgttaatga gatcaacagc agaactccaa tgcgcctctc 33060

atacattgag aaaaagaaag gccgccagac gactcatatc gtattttcct tccgcgatat 33120

cacttccatg acgacaggat agtctgaggg ttatctgtca cagatttgag ggtggttcgt 33180

cacatttgtt ctgacctact gagggtaatt tgtcacagtt ttgctgtttc cttcagcctg 33240

catggatttt ctcatacttt ttgaactgta atttttaagg aagccaaatt tgagggcagt 33300

ttgtcacagt tgatttcctt ctctttccct tcgtcatgtg acctgatatc gggggttagt 33360

tcgtcatcat tgatgagggt tgattatcac agtttattac tctgaattgg ctatccgcgt 33420

gtgtacctct acctggagtt tttcccacgg tggatatttc ttcttgcgct gagcgtaaga 33480

gctatctgac agaacagttc ttctttgctt cctcgccagt tcgctcgcta tgctcggtta 33540

cacggctgcg gcgagcgcta gtgataataa gtgactgagg tatgtgctct tcttatctcc 33600

ttttgtagtg ttgctcttat tttaaacaac tttgcggttt tttgatgact ttgcgatttt 33660

gttgttgctt tgcagtaaat tgcaagattt aataaaaaaa cgcaaagcaa tgattaaagg 33720

atgttcagaa tgaaactcat ggaaacactt aaccagtgca taaacgctgg tcatgaaatg 33780

acgaaggcta tcgccattgc acagtttaat gatgacagcc cggaagcgag gaaaataacc 33840

cggcgctgga gaataggtga agcagcggat ttagttgggg tttcttctca ggctatcaga 33900

gatgccgaga aagcagggcg actaccgcac ccggatatgg aaattcgagg acgggttgag 33960

caacgtgttg gttatacaat tgaacaaatt aatcatatgc gtgatgtgtt tggtacgcga 34020

ttgcgacgtg ctgaagacgt atttccaccg gtgatcgggg ttgctgccca taaaggtggc 34080

gtttacaaaa cctcagtttc tgttcatctt gctcaggatc tggctctgaa ggggctacgt 34140

gttttgctcg tggaaggtaa cgacccccag ggaacagcct caatgtatca cggatgggta 34200

ccagatcttc atattcatgc agaagacact ctcctgcctt tctatcttgg ggaaaaggac 34260

gatgtcactt atgcaataaa gcccacttgc tggccggggc ttgacattat tccttcctgt 34320

ctggctctgc accgtattga aactgagtta atgggcaaat ttgatgaagg taaactgccc 34380

accgatccac acctgatgct ccgactggcc attgaaactg ttgctcatga ctatgatgtc 34440

atagttattg acagcgcgcc taacctgggt atcggcacga ttaatgtcgt atgtgctgct 34500

gatgtgctga ttgttcccac gcctgctgag ttgtttgact acacctccgc actgcagttt 34560

ttcgatatgc ttcgtgatct gctcaagaac gttgatctta aagggttcga gcctgatgta 34620

cgtattttgc ttaccaaata cagcaatagt aatggctctc agtccccgtg gatggaggag 34680

caaattcggg atgcctgggg aagcatggtt ctaaaaaatg ttgtacgtga aacggatgaa 34740

gttggtaaag gtcagatccg gatgagaact gtttttgaac aggccattga tcaacgctct 34800

tcaactggtg cctggagaaa tgctctttct atttgggaac ctgtctgcaa tgaaattttc 34860

gatcgtctga ttaaaccacg ctgggagatt agataatgaa gcgtgcgcct gttattccaa 34920

aacatacgct caatactcaa ccggttgaag atacttcgtt atcgacacca gctgccccga 34980

tggtggattc gttaattgcg cgcgtaggag taatggctcg cggtaatgcc attactttgc 35040

ctgtatgtgg tcgggatgtg aagtttactc ttgaagtgct ccggggtgat agtgttgaga 35100

agacctctcg ggtatggtca ggtaatgaac gtgaccagga gctgcttact gaggacgcac 35160

tggatgatct catcccttct tttctactga ctggtcaaca gacaccggcg ttcggtcgaa 35220

gagtatctgg tgtcatagaa attgccgatg ggagtcgccg tcgtaaagct gctgcactta 35280

ccgaaagtga ttatcgtgtt ctggttggcg agctggatga tgagcagatg gctgcattat 35340

ccagattggg taacgattat cgcccaacaa gtgcttatga acgtggtcag cgttatgcaa 35400

gccgattgca gaatgaattt gctggaaata tttctgcgct ggctgatgcg gaaaatattt 35460

cacgtaagat tattacccgc tgtatcaaca ccgccaaatt gcctaaatca gttgttgctc 35520

ttttttctca ccccggtgaa ctatctgccc ggtcaggtga tgcacttcaa aaagccttta 35580

cagataaaga ggaattactt aagcagcagg catctaacct tcatgagcag aaaaaagctg 35640

gggtgatatt tgaagctgaa gaagttatca ctcttttaac ttctgtgctt aaaacgtcat 35700

ctgcatcaag aactagttta agctcacgac atcagtttgc tcctggagcg acagtattgt 35760

ataagggcga taaaatggtg cttaacctgg acaggtctcg tgttccaact gagtgtatag 35820

agaaaattga ggccattctt aaggaacttg aaaagccagc accctgatgc gaccacgttt 35880

tagtctacgt ttatctgtct ttacttaatg tcctttgtta caggccagaa agcataactg 35940

gcctgaatat tctctctggg cccactgttc cacttgtatc gtcggtctga taatcagact 36000

gggaccacgg tcccactcgt atcgtcggtc tgattattag tctgggacca cggtcccact 36060

cgtatcgtcg gtctgattat tagtctggga ccacggtccc actcgtatcg tcggtctgat 36120

aatcagactg ggaccacggt cccactcgta tcgtcggtct gattattagt ctgggaccat 36180

ggtcccactc gtatcgtcgg tctgattatt agtctgggac cacggtccca ctcgtatcgt 36240

cggtctgatt attagtctgg aaccacggtc ccactcgtat cgtcggtctg attattagtc 36300

tgggaccacg gtcccactcg tatcgtcggt ctgattatta gtctgggacc acgatcccac 36360

tcgtgttgtc ggtctgatta tcggtctggg accacggtcc cacttgtatt gtcgatcaga 36420

ctatcagcgt gagactacga ttccatcaat gcctgtcaag ggcaagtatt gacatgtcgt 36480

cgtaacctgt agaacggagt aacctcggtg tgcggttgta tgcctgctgt ggattgctgc 36540

tgtgtcctgc ttatccacaa cattttgcgc acggttatgt ggacaaaata cctggttacc 36600

caggccgtgc cggcacgtta accgggctgc atccgatgca agtgtgtcgc tgtcgagttt 36660

aaacatgcat ccttaattaa 36680

<210> 14
<211> 33868
<212> DNA
<213> artificial

<220>
<223> synthetic

<400> 14
gaagttccta ttccgaagtt cctattctct agaaagtata ggaacttcgc gtaaattgta 60

agcgttaata ttttgttaaa attcgcgtta aatttttgtt aaatcagctc atttttttaac 120

caataggccg aaatcggcaa aatcccttga agagcagacc agaccacctg gtgatggcct 180

gtaccgggac cgagttcagc tccagtgggg aggacacaga ttagaggtag gtttgagtag 240

tgggcgtggc taatgtgagt ataaaggcgg gtgtcttacg agggtctttt tgcttttctg 300

cagacatcat gaacgggacc ggcggggcct tcgaaggggg gctttttagc ccttatttga 360

caacccgcct gccgggatgg gccggagttc gtcagaatgt gatgggatct acggtggatg 420

ggcgtccagt gcttccagca aattcctcga ccatgaccta cgcgaccgtg gggagctcgt 480

cgcttgacag caccgccgca gccgcggcag ccgcagccgc catgacagcg acgagactgg 540

cctcgagcta tatgcccagc agcggtagca gcccctctgt gcccagttcc atcatcgccg 600

aggagaaact gctggccctg ctggccgagc tggaagccct gagccgccag ctggccgccc 660

tgacccagca ggtgtccgat ctccgcgagc aacagcagca gcaaaataaa tgaattcaat 720

aaacacagat tctgattcaa acagcaaagc atctttatta tttatttttt cgcgcgcggt 780

aggccctggt ccacctctcc cgatcattga gagtgcggtg gatttttcc aggacccggt 840

agaggtggga ttggatgttg aggtacatgg gcatgagccc gtcccggggg tggaggtagc 900

accactgcat ggcctcgtgc tctggggtcg tgttgtagat aatccagtca tagcaggggc 960

gctgggcgtg gtgctggatg atgtccttga ggaggagact gatggccacg gggagcccct 1020

tggtgtaggt gttggcaaag cggttaagct gggagggatg catgcggggg gagatgatgt 1080

gcagtttggc ctggatcttg aggttggcga tgttgccacc cagatcccgc cgggggttca 1140

tattgtgcag gaccaccaga acggtgtagc ccgtgcactt ggggaactta tcatgcaact 1200

tggaagggaa tgcgtggaag aatttggaga cgcccttgtg cccgcccagg ttttccatgc 1260

actcatccat gatgatggca atgggcccgt gggctgcggc tttggcaaaa acgtttctgg 1320

ggtcagagac atcataatta tgctcctggg tgagatcatc ataagacatt ttaatgaatt 1380

tggggcgaag ggtgccagat tgggggacga tcgttccctc gggccccggg gcgaagttcc 1440

cctcgcagat ctgcatctcc caggctttca tctcggaggg ggggatcatg tccacctgcg 1500

gggcgatgaa aaaaacggtt tccggggcgg gggtgatgag ctgcgaggag agcaggtttc 1560

ttaacagctg ggacttgccg cacccggtcg ggccgtagat gaccccgatg acgggttgca 1620

ggtggtagtt caaggagatg cagctgccgt cgtcccggag gaggggggcc acctcgttga 1680

gcatgtctct cacttggagg ttttcccgga cgagctcgcc gaggaggcgg tccccgccca 1740

gcgagagcag ctcttgcagg gaagcaaagt ttttcagggg cttgagcccg tcggccatgg 1800

gcatcttggc aagggtctgc gagaggagct ccaggcggtc ccatagctcg gtgacgtgct 1860

ctacggcatc tcgatccagc agacttcctc gtttcggggg ttgggacgac tgcgactgta 1920

gggcacgaga cgatgggcgt ccagcgcggc cagcgtcatg tccttccagg gtctcagggt 1980

ccgagtgagg gtggtctccg tcacggtgaa ggggtgggcc ccgggctggg cgcttgcaag 2040

ggtgcgcttg agactcatcc tgctggtgct gaaacgggca cggtcttcgc cctgcgcgtc 2100

ggcgagatag cagttgacca tgagcttgta gttaagggcc tcggcggcgt ggcccttggc 2160

acggagcttg cctttggaag agcgcccgca ggcgggacag aggagggatt gcagggcgta 2220

gagcttgggt gcgagaaaga cggactcggg agcgaaggcg tccgctccgc agtgggcgca 2280

gacggtctcg cactcgacga gccaggtgag ctcgggctgc tcggggtcaa aaaccagttt 2340

tcccccgttc tttttgatgc gcttcttacc tcgcgtctcc atgagtctgt gtccgcgttc 2400

ggtgacaaac aggctgtctg tgtccccgta gacggacttg attggcctgt cctgcagggg 2460

cgtcccgcgg tcctcctcgt agagaaactc ggaccactct gagacaaagg cgcgcgtcca 2520

cgccaagaca aaggaggcca cgtgcgaggg gtagcggtcg ttgtccacca gggggtccac 2580

cttttccacc gtgtgcagac acatgtcccc ctcctccgca tccaagaagg tgattggctt 2640

gtaggtgtag gccacgtgac cgggggtccc cgacgggggg gtataaaagg gggcgggtct 2700

gtgctcgtcc tcactctctt ccgcgtcgct gtccacgagc gccagctgtt ggggtaggta 2760

ttccctctcg agagcgggca tgacctcggc actcaggttg tcagtttcta gaaacgagga 2820

ggatttgatg ttggcctgcc ctgccgcaat gctttttagg agactttcat ccatctggtc 2880

agaaaagact attttttttat tgtcaagctt ggtggcaaag gagccataga gggcgttgga 2940

gagaagcttg gcgatggatc tcatggtctg atttttgtca cggtcggcgc gctccttggc 3000

cgcgatgttg agctggacat actcgcgcgc gacacacttc cattctggga agacggtggt 3060

gcgctcgtcg ggcacgatcc tgacgcgcca gccgcgatta tgcagggtga ccaggtccac 3120

gctggtggcc acctcgccgc gcaggggctc gttggtccag cagaggcgtc cgcccttgcg 3180

cgagcagaac gggggcagca catcaagcag atgctcgtca ggggggtccg catcgatggt 3240

gaagatgccc ggacagagtt ccttgtcaaa ataatcgatt tttgaggatg catcatccaa 3300

ggccatctgc cactcgcggg cggccagcgc tcgctcgtag gggttgaggg gcggacccca 3360

gggcatggga tgcgtgaggg cggaggcgta catgccgcag atgtcgtaga catagatggg 3420

ctccgagagg atgccgatgt aggtgggata acagcgcccc ccgcggatgc tggcgcgcac 3480

atagtcatac aactcgtgcg agggggccaa gaaagcgggg ccgagattgg tgcgctgggg 3540

ctgctcggcg cggaagacga tctggcgaaa gatggcatgc gagttggagg agatggtggg 3600

ccgttggaag atgttaaagt gggcgtgggg caagcggacc gagtcgcgga tgaagtgcgc 3660

gtaggagtct tgcagcttgg caacgagctc ggcggtgaca aggacgtcca tggcgcagta 3720

gtccagcgtt tcacggatga tgtcataacc cgcctcttct ttcttctccc acagcgcgcg 3780

gttgagggcg tactcctcgt catccttcca gtactcccgg agcgggaatc ctcgatcgtc 3840

cgcacggtaa gagcccagca tgtagaaatg gttcacggcc ttgtagggac agcagccctt 3900

ctccacgggg agggcgtaag cttgagcggc cttgcggagc gaggtgtgcg tcagggcgaa 3960

ggtatcccta accatgactt tcaagaactg gtacttgaaa tccgagtcgt cgcagccgcc 4020

gtgctcccag agctcgaaat cggtgcgctt cttcgagagg gggttaggca gagcgaaagt 4080

gacgtcattg aagagaatct tgcctgcccg cggcatgaaa ttgcgggtga tgcggaaagg 4140

gcccggaacg gaggctcggt tgttgatgac ctgggcggcg aggacgatct cgtcgaagcc 4200

gttgatgttg tgcccgacga tgtagagttc catgaatcgc gggcggcctt tgatgtgcgg 4260

cagctttttg agttcctcgt aggtgaggtc ctcggggcat tgcaggccgt gctgctcgag 4320

cgcccactcc tggagatgtg ggttggcttg catgaatgaa gcccagagct cgcgggccat 4380

gagggtctgg agctcgtcgc gaaagaggcg gaactgctgg cccacggcca tcttttctgg 4440

ggtgacgcag tagaaggtga gggggtcccg ctcccagcga tcccagcgta agcgcacggc 4500

gagatcgcga gcgagggcga ccagctcggg gtccccggag aatttcatga ccagcatgaa 4560

ggggacgagc tgcttgccga aggaccccat ccaggtgtag gtttctacat cgtaggtgac 4620

aaagagccgc tccgtgcgag gatgagagcc gattgggaag aactggattt cctgccacca 4680

gttggtcgag tggctgttga tgtgatgaaa gtagaaatcc cgccggcgaa ccgagcactc 4740

gtgctgatgc ttgtaaaagc gtccgcagta ctcgcagcgc tgcacgggct gtacctcatc 4800

cacgagatac acagcgcgtc ccttgaggag gaacttcagg agtggcggcc ctggctggtg 4860

gttttcatgt tcgcctgcgt gggactcacc ctggggctcc tcgaggacgg agaggctgac 4920

gagcccgcgc gggagccagg tccagatttc ggcgcggcgg gggcggagag cgaaaacgag 4980

ggcgcgcagt tgggagctgt ccatggtgtc gcggagatcc aggtccgggg gcagggttct 5040

gaggttgacc tcgtagaggc gggtgagggc gtgcttgaga tgcagatggt acttgatctc 5100

cacgggtgag ttggtggtcg tgtccacgca ttgcatgagc ccgtagctgc gcggggccac 5160

gaccgtgccg cggtgcgctt ttagaagcgg tgtcgcggac gcgctcccgg cggcagcggc 5220

ggttccggcc ccgcgggcag tggcggtaga ggcacgtcgg cgtggcgctc gggcaggtcc 5280

cggtgctgcg ccctgagagc gctggcgtgc gcgacgacgc ggcggttgac atcctggatc 5340

tgccgccttt gcgtgaagac cacgggcccc gtgactttga acctgaaaga cagttcaaca 5400

gaatcaatct cggcgtcatt gacggcggcc tgacgcagga tctcttgcac gtcgcccgag 5460

ttgtcctggt aggcgatctc ggacatgaac tgctcgattt cctcctcctg gagatcgccg 5520

cggcccgcgc gctctacggt ggcggcaagg tcattcgaga tgcgacccat gagctgcgag 5580

aaggcgccca ggccgctctc gttccagacg cggctgtaaa ccacgtcccc gtcggcgtcg 5640

cgcgcgcgca tgaccacctg cgcgaggttg agctccacgt gccgcgtaaa gacggcgtag 5700

ttgcgcaggc gctggaagag gtagttgagg gtggtggcga tgtgctcggt gacgaagaag 5760

tacataatcc agcggcgcag gggcatttcg ctgatgtcgc caatggcctc cagcctttcc 5820

atggcctcgt agaaatccac ggcgaagttg aaaaactggg cgttgcgggc cgagaccgtg 5880

agctcgtctt ccaggagcct gatgagttcg gcgatggtgg cgcgcacctc gcgctcgaaa 5940

tcccaggggg cctcctcctc ttcctcttct tccatgacga cctcttcttc tatttcttcc 6000

tctgggggcg gtggtggtgg cggggcccga cgacgacggc gacgcaccgg gagacggtcg 6060

acgaagcgct cgatcatctc cccgcggcgg cgacgcatgg tttcggtgac ggcgcgaccc 6120

cgttcgcgag gacgcagcgt gaagacgccg ccggtcatct cccggtaatg gggtgggtcc 6180

ccgttgggca gcgatagggc gctgacaatg catcttatca attgcggtgt agggcacgtg 6240

agcgcgtcga gatcgaccgg atcggagaat ctttcgagga aagcgtctag ccaatcgcag 6300

tcgcaaggta agctcaaaca cgtagcagcc ctgtggacgc tgttagaatt gcggttgctg 6360

atgatgtaat tgaagtaggc gtttttgagg cggcggatgg tggcgaggag gaccaggtcc 6420

ttgggtcccg cttgctggat gcggagccgc tcggccatgc cccaggcctg gccctgacac 6480

cggctcaggt tcttgtagta gtcatgcatg agcctctcga tgtcatcact ggcggaggcg 6540

gagtcttcca tgcgggtgac cccgacgccc ctgaacggct gcacgagcgc caggtcggcg 6600

acgacgcgct cggcgaggat ggcctgttgc acgcgggtga gggtgtcctg gaagtcgtcc 6660

atgtcgacga agcggtggta ggcccctgtg ttgatggtgt aagtgcagtt ggccataagc 6720

gaccagttga cggtctgcag gccgggttgc acgacctcgg agtacctgag ccgcgagaag 6780

gcgcgcgagt cgaagacata gtcgttgcag gtgcgcacga ggtactggta tccgactaga 6840

aagtgcggcg gcggctggcg gtagagcggc cagcgctggg tggccggcgc gcccggggcc 6900

aggtcctcaa gcatgagtcg gtggtagccg tagaggtagc gggacatcca ggtgatgccg 6960

gcggcggtgg tggaggcgcg cgggaactcg cggacgcggt tccagatgtt gcgcaggggc 7020

aggaaatagt ccatggtcgg cacggtctgg ccggtgagac gcgcgcagtc attgatgctc 7080

tagaggcaaa aacgaaagcg gttgagcggg ctcttcctcc gtagcctggc ggaacgcaaa 7140

cgggttaggc cgcgtgtgta ccccggttcg agtcccctcg aatcaggctg gagccgcgac 7200

taacgtggta ttggcactcc cgtctcgacc caagcccgat agccgccagg atacggcgga 7260

gagccctttt tgtcggccga ggggagtcgc tagacttgaa agcggccgaa aaccctgccg 7320

ggtagtggct cgcgcccgta gtctggagaa gcatcgccag ggttgagtcg cggcagaacc 7380

cggttcaagg acggccgcgg cgagcgggac ttggtcaccc cgccgattta aagacccaca 7440

gccagccgac ttctccagtt acgggagcga gccccctttt ttctttttgc cagatgcatc 7500

ccgtcctgcg ccaaatgcgt cccacccccc cggcgaccac cgcgaccgcg gccgtagcag 7560

gcgccggcgc tagccagcca cagccacaga cagagatgga cttggaagag ggcgaagggc 7620

tggcgagact gggggcgccg tccccggagc gacatccccg cgtgcagctg cagaaggacg 7680

tgcgcccggc gtacgtgcct gcgcagaacc tgttcaggga ccgcagcggg gaggagcccg 7740

aggagatgcg cgactgccgg tttcgggcgg gcagggagct gcgcgagggc ctggaccgcc 7800

agcgcgtgct gcgcgacgag gatttcgagc cgaacgagca gacggggatc agccccgcgc 7860

gcgcgcacgt ggcggcggcc aacctggtga cagcctacga gcagacggtg aagcaggaac 7920

gcaactttca aaagagtttc aacaaccacg tgcgcaccct gatcgcgcgc gaggaggtgg 7980

ccctgggcct gatgcacctg tgggacctgg cggaggccat tgtgcagaac ccggacagca 8040

agcctctgac ggcacaactg ttcctggtgg tgcagcacag cagggacaac gaggcgttca 8100

gggaggcgct gctaaacatc gccgagcccg agggccgctg gctgctggag ctgatcaaca 8160

tcttgcaaag catcgtagtg caggagcgca gcctgagctt ggccgagaag gtggcggcga 8220

tcaactactc ggtgctaagc ctgggcaagt tttacgcgcg caagatttac aagacgccgt 8280

acgtgcccat agacaaggag gtgaaaatag acagctttta catgcgcatg gcgctcaagg 8340

tgctgacgct gagcgacgac ctgggcgtgt accgcaacga ccgcatccac aaggccgtga 8400

gcacgagccg gcggcgcgag ctgagcgacc gcgagctgat gctaagcctg cgccgggcgc 8460

tggtaggtgg cgccgccggc ggcgaggagt cctacttcga catgggggcg gacctgcatt 8520

ggcagccgag ccggcgcgcc ttggaggccg cctacggtcc agaggacttg gatgaggatg 8580

aggaagagga ggaggatgca cccgttgcgg ggtactgacg cctccgtgat gtgtttttag 8640

atgtcccagc agcaagcccc ggaccccgcc ataagggcgg cgctgcaaag ccagccgtcc 8700

ggtctagcat cggacgactg ggaggccgcg atgcaacgca tcatggccct gacgacccgc 8760

aaccccgagt cctttagaca acagccgcag gccaacagac tttcgaccat tctggaggcg 8820

gtggtccccc ctcggaccaa ccccacgcac gagaaggtgc tggcgatcgt gaacgcgctg 8880

gcggagaaca aggctattcg tcccgacgag gctgggctgg tatacaacgc cctgctggag 8940

cgcgtgggcc gctacaacag cacgaacgtg cagtccaacc tggaccggct ggtgacggac 9000

gtgcgcgagg ccgtggcgca gcgcgagcgg ttcaagaacg agggcctggg ctcgctggtg 9060

gcgctgaacg ccttcctggc gacgcagccg gcgaacgtgc cgcgcgggca ggacgattat 9120

accaacttta tcagcgcgct gcggctgatg gtgaccgagg ttccccagag cgaggtgtac 9180

cagtcgggcc cggactactt tttccagact agcagacagg gcctgcagac ggtgaacctg 9240

agccaggctt tcaagaacct gcgcgggctg tggggcgtgc aggcgcccgt gggcgaccgg 9300

tcgacggtga gcagcttgct gacgcccaac tcgcggctgc tgctgctgct gatcgcgccc 9360

ttcaccgaca gcggcagcgt gaaccgcaac tcgtacctgg gtcacctgct gacgctgtac 9420

cgcgaggcca taggccaggc acaggtggac gagcagacct tccaggagat cactagtgta 9480

agccgcgcgc tgggtcagaa cgacaccgac agtctgaggg ccaccctgaa cttcttgctg 9540

accaatagac agcagaagat cccggcgcag tatgcgctgt cggccgagga ggagcgcatc 9600

ctgagatatg tgcagcagag cgtagggctg tttctgatgc aggagggggc cacccccagc 9660

gccgcgctgg acatgaccgc gcgcaacatg gaacctagca tgtacgccgc caaccggccg 9720

tttatcaata agctgatgga ctacctgcac cgcgcggcgt ccatgaactc ggactacttt 9780

accaatgcca ttttgaaccc gcactggctc ccgccgccgg ggttctacac gggcgagtac 9840

gacatgcctg accccaacga cgggtttttg tgggacgacg tggacagcgc ggtgttctca 9900

ccgaccttgc aaaagcgcca ggaggcggtg cgcacgcccg cgagcgaggg cgcggtgggt 9960

cggagcccct ttcctagctt agggagtttg catagcttgc cgggctcggt gaacagcggc 10020

agggtgagcc ggccgcgctt gctgggcgag gacgagtacc taaacgactc gctgctgcag 10080

ccgccgcggg tcaagaacgc catggccaat aacgggatag agagtctggt ggacaaactg 10140

aaccgctgga agacctacgc tcaggaccat agggagcctg cgcccgcgcc gcggcgacag 10200

cgccacgacc ggcagcgggg cctggtgtgg gacgacgagg actcggccga cgatagcagc 10260

gtgttggact tgggcgggag cggtggggtc aacccgttcg cgcatctgca gcccaaactg 10320

gggcgacgga tgttttgaat gcaaaataaa actcaccaag gccatagcgt gcgttctctt 10380

ccttgttaga gatgaggcgt gcggtggtgt cttcctctcc tcctccctcg tacgagagcg 10440

tgatggcgca ggcgaccctg gaggttccgt ttgtgcctcc gcggtatatg gctcctacgg 10500

agggcagaaa cagcattcgt tactcagagc tggctccgct gtacgacacc actcgcgtgt 10560

acttggtgga caacaagtcg gcggacatcg cttccctgaa ctaccaaaac gaccacagca 10620

actttctgac cacggtggtg caaaacaacg atttcacccc cgccgaggct agcacgcaga 10680

cgataaattt tgacgagcgg tcgcggtggg gcggtgatct gaagaccatt ctgcacacca 10740

acatgcccaa tgtgaacgag tacatgttta ccagcaagtt taaggcgcgg gtgatggtgg 10800

ctaggaaaca cccacagggg gtagaagcaa cagatttaag caaggatatc ttagagtacc 10860

agtggtttga gtttaccctg cccgagggca acttttccga gaccatgacc atagacctga 10920

tgaacaacgc catcttggaa aactacttgc aagtggggcg gcaaaatggc gtgctggaga 10980

gcgatatcgg agtcaagttt gacagcagga atttcaagct gggctgggac cccgtgacca 11040

agctggtgat gccaggggtc tacacctatg aggccttcca cccggacgtg gtgctgctgc 11100

ctggctgcgg ggtggacttc accgagagcc gcctaagcaa ccttctgggc attcgcaaga 11160

agcaaccttt ccaagagggc ttcagaatca tgtatgagga tctcgaaggg ggcaacattc 11220

ccgcacttct gaatgtgacc aagtacctgg aaagcaagaa gaagctagag gagaatgccg 11280

ctaaggctaa tggtcctgca agaggagaca gtagtgtctc aagagaggtg gaaaaggcag 11340

ctgaaaaaga gcttgtcatt gagcccatca agcaagatga tagcaagaga agttacaacc 11400

tcattgaggg tacccatgac accctgtacc gaagctggta cctgtcctat acctacgggg 11460

accccgagaa gggggtgcag tcgtggacgc tgctcaccac cccggacggt cactgcggcg 11520

cggagcaagt ctactggtcg ctgccggacc tcatgcaaga ccccgtcacc ttccgctcta 11580

cccagcaagt cagcaactac cccgtggtcg gcgccgagct catgcctttc cgcgccaaga 11640

gcttttacaa cgacctcgcc gtctactccc agctcatccg cagctacacc tccctcaccc 11700

acgtcttcaa ccgcttcccc gacaaccaga tcctctgccg cccgcccgcg cccaccatca 11760

ccaccgtcag tgaaaacgtg cctgctctca cagatcacgg gacgctaccg ctgcgcagca 11820

gtatccgcgg agtccagcga gtgaccgtca ctgacgcccg tcgccgcacc tgtccctacg 11880

tctacaaggc cctgggcata gtcgcgccgc gcgtgctttc cagtcgcacc ttctaaaaaa 11940

tgtctattct catctcgccc agcaataaca ccggctgggg tcttactagg cccagcacca 12000

tgtacggagg agccaagaaa cgctcccagc agcaccccgt ccgcgtccgc ggccactttc 12060

gcgctccctg gggcgcatac aagcgcgggc ggacttccac cgccgccgcc gtgcgcacca 12120

ccgtcgacga cgtcatcgac tcggtggtcg ccgatgcgcg caactatacc cccgcccccc 12180

ccaccgtgga cgcggtcatt gacagcgtgg tggccgacgc gcgcgactat gccagacgca 12240

agagccggcg gcgacggatc gccaggcgcc accggagcac gcccgccatg cgcgccgccc 12300

gggctctgct gcgccgcgcc agacgcacgg gccgccgggc catgatgcga gccgcgcgcc 12360

gcgctgccac tgcacccacc cccgcaggca ggactcgcag acgagcggcc gctgccgccg 12420

ccgcggccat ctctagcatg accagaccca ggcgcggaaa cgtgtactgg gtgcgcgact 12480

ccgtcacggg cgtgcgcgtg cccgtgcgca ctcgtcctcc tcgtccctga tctaatgctt 12540

gtgtcctccc ccgcaagcga cgatgtcaaa gcgcaaaatc aaggaggaga tgctccaggt 12600

cgtcgccccg gagatttacg gacccccgga ccagaaaccc cgcaaaatca agcgggttaa 12660

aaaaaaggat gaggtggacg agggggcagt agagtttgtg cgcgagttcg ctccgcggcg 12720

gcgcgtaaat tggaaggggc gcagggtgca gcgtgtgttg cggcccggca cggcggtggt 12780

gttcacgccc ggcgagcggt cctcggtcag gagcaagcgt agctatgacg aggtgtacgg 12840

cgacgacgac atcctggacc aggcggcgga gcgggcgggc gagttcgcct acgggaagcg 12900

gtcgcgcgaa gaggagctga tctcgctgcc gctggacgaa agcaacccca cgccgagcct 12960

gaagcccgtg accctgcagc aggtgctgcc ccaggcggtg ctgctgccga gccgcggggt 13020

taagcgcgag ggcgagagca tgtacccgac catgcagatc atggtgccca agcgccggcg 13080

cgtggaggac gtgctggaca ccgtgaaaat ggatgtggag cccgaggtca aggtgcgccc 13140

catcaagcag gtggcgccgg gcctgggcgt gcaaaccgtg gacattcaga tccccaccga 13200

catggatgtc gacaaaaaac cctcgaccag catcgaggtg caaaccgacc cctggctccc 13260

agcctccacc gctaccgccg ccacggccac cgagcctccc aggaggcgaa gatggggccc 13320

tgccaaccgg ctgatgccca actacgtgtt gcatccttcc atcatcccga cgccgggcta 13380

ccgcggcacc cggtactacg ccagccgcag gcgcccagcc agtaaacgcc gccgccgcac 13440

cgccacccgc cgccgtctgg cccccgcccg cgtgcgccgc gtgaccacgc gccggggccg 13500

ctcgctcgtt ctgcccaccg tgcgctacca ccccagcatc ctttaatccg tgtgctgtga 13560

tactgttgca gagagatggc tctcacttgc cgcctgcgca tccccgtccc gaattaccga 13620

ggaagatccc gccgcaggag aggcatggca ggcagtggcc tgaaccgccg ccggcggcgg 13680

gccatgcgca ggcgcctgag tggcggcttt ctgcccgcgc tcatccccat aatcgccgcg 13740

gccatcggca cgatcccggg catagcttcc gttgcgctgc aggcgtcgca gcgccgttga 13800

tgtgcgaata aagcctcttt agactctgac acacctggtc ctgtatattt ttagaatgga 13860

agacatcaat tttgcgtccc tggctccgcg gcacggcacg cggccgttca tgggcacctg 13920

gaacgagatc ggcaccagcc agctgaacgg gggcgccttc aattggagca gtgtctggag 13980

cgggcttaaa aatttcggct cgacgctccg gacctatggg aacaaggcct ggaatagtag 14040

cactgggcag ttgttaaggg aaaagctcaa agaccagaac ttccagcaaa aggtggtgga 14100

cgggctggcc tcgggcatta acggggtggt ggacatcgcg aacccaggcc gtgcagcgcg 14160

agataaacaa ccgcctggac ccgcggccgc ccacggtggt ggagatggaa gatgcaactc 14220

ctccgccgcc caagggcgag aagcgaccgc ggcccgacgc ggaggagacg atcctgcagg 14280

tggacgagcc gccctcgtac gaggaggccg taaaggccgg catgcccacc acgcgcatca 14340

tcgcgccact ggccacgggt gtaatgaaac ccgccaccct tgacctgcct ccaccaccca 14400

cgcccgctcc accgaaggca gctccggtag tgcagccccc tccggtggcg accgccgtgc 14460

gccgcgtccc cgcccgccgc caggcccaaa actggcaaag cacgctgcac agtattgtgg 14520

gcctgggagt gaaaagtctg aagcgccgcc gatgctattg aaagagagga aggaagacac 14580

taaagggaga gcttaacttg tatgtgcctt accgccagag aacgcgcgaa gatggccacc 14640

ccctcgatga tgccgcagtg ggcgtacatg cacatcgccg ggcaggacgc ctcggagtac 14700

ctgagcccgg gtctggtgca gtttgcccgc gccaccgaca cgtacttcag cctgggcaac 14760

aagtttagga accccacggt ggccccaacc cacgatgtga ccacggaccg gtcccagcgt 14820

ctgacgctgc gcttcgtgcc cgtggatcgc gaggacacca cgtactcgta caaggcgcgc 14880

ttcactctgg ccgtgggcga caaccgggtg ctagacatgg ccagcactta ctttgacatc 14940

cgcggcgttc tggaccgcgg ccccagcttc aaaccctact cgggcacggc ttacaacagc 15000

ctggccccca agggcgcccc caattccagt cagtgggatg ctcaagaaaa aaatggacaa 15060

ggaggaaatg acatggttac caaaactcac acatttggcg tggctgctat gggaggaaca 15120

aatattacaa accagggttt gttaattgga actgaagaaa cagccgataa tcctccaaag 15180

gaaatctttg cagacaaatt attccagcca gaacctcaag taggagagga aaactggcaa 15240

gacagcaatg cattctatgg aggcagggct cttaagaagg aaactaaaat gaaaccatgc 15300

tatggatctt atgctagacc aacaaacaca agtggcggac aggctaagct taaaactggt 15360

gacaatatcg atcctaccaa ggatttcgac atagatcttg ctttcttcga tactcctggc 15420

ggaaatcctc cagcaggtgg tagtggaacg gaagaataca aagcagatat tgttatgtac 15480

actgaaaatg tcaaccttga aacacctgac actcatgtgg tgtacaaacc agccaaagag 15540

gatgaaagtt ctcaggccaa cttggttcag cagtccatgc ccaacagacc caactacatt 15600

ggcttcagag acaattttgt ggggctcatg tattacaaca gcactggcaa catgggagtg 15660

ctggctggtc aggcctctca gttgaatgct gtggtggact tgcaagacag aaacacagag 15720

ctgtcttacc agctcttgct agattctctg ggtgacagaa ccagatactt tagcatgtgg 15780

aactctgcgg tggacagcta tgatccagat gtcagaatca ttgaaaatca cggtgtggaa 15840

gatgagcttc caaactattg ctttccattg gatggctctg gtaccaatgc tgcctaccaa 15900

ggtgtaaagg ttcaagatgg tgaagacggg gataaagaaa ctgaatggga aaaagatacc 15960

aaagtcgcag atcgtaacca actgtgcaag ggtaacatct tcgccatgga gatcaacctc 16020

caggccaacc tgtggaagag ttttctgtac tcgaacgtgg ccctgtacct gcccgactcc 16080

tacaagtaca cgccggccaa catcacgctg cccgccaaca ccaacaccta cgagtacatg 16140

aacggccgcg tggtagcccc ctcgctggtg gacgcatacg tcaacatcgg tgcgcgctgg 16200

tcgctggacc ccatggacaa cgtcaacccc ttcaaccacc accgcaacgc gggcctgcgc 16260

taccgctcca tgcttctcgg caacggccgc tacgtgccct tccacatcca agtgccccaa 16320

aagttctttg ccattaagaa cctgctcctg ctccccggct cctacaccta cgagtggaac 16380

ttccgcaagg atgtcaacat gatcctgcag agttccctcg gaaacgacct gcgcgtcgac 16440

ggcgcctccg tgcgcttcga cagcgtcaac ctctacgcta ccttcttccc catggcgcac 16500

aacaccgcct ccaccctgga agccatgctg cgcaacgaca ccaacgacca gtcctttaac 16560

gactacctct cggccgccaa catgctctac cccataccgg ccaaggccac caacgtgccc 16620

atctccatcc cctcgcgcaa ctgggctgcc ttccgcggct ggagtttcac ccggctcaag 16680

accaaggaaa ctccttccct tggctcgggt ttcgacccct actttgtcta ctcgggctcc 16740

atcccctacc tcgacgggac cttctacctc aaccacacct tcaaaaaggt gtccattatg 16800

ttcgactcct cggtcagctg gcccggcaac gaccggctgc tcacgccgaa tgagttcgag 16860

atcaagcgca gcgtcgacgg ggagggctac aacgtggccc aatgcaacat aaccaaggac 16920

tggttcctcg tccagatgct ctcccactac aacatcggct accagggctt ccacgtgccc 16980

gagggctaca aggaccgcat gtactccttt ttccgcaact tccagcccat gagcaggcag 17040

gtggtggatg agatcaacta caaggactac aaggccgtca ccctgccctt ccagcacaac 17100

aactctggct tcaccggcta cctcgcaccc accatgcgtc aggggcagcc ttaccccgcc 17160

aacttccctt acccgctcat cggctccacc gcagtcccct ccgtcaccca gaaaaagttc 17220

ctctgcgaca gggtcatgtg gcgcatcccc ttctccagca acttcatgtc catgggtgcc 17280

ctcaccgacc tgggtcagaa catgctctat gccaactcgg cccacgcgct cgacatgacc 17340

ttcgaggtgg accccatgga tgagcccacc ctcctctatc ttctcttcga agttttcgac 17400

gtggtcagag tgcaccagcc gcaccgcggc gtcatcgagg ccgtctacct gcgcacaccc 17460

ttctccgccg gcaacgccac cacctaagca tgagcggttc cagcgaacga gaactcgcgg 17520

ccatcgtgcg cgacctgggc tgcgggccct acttttgggg cacccacgac aagcgcttcc 17580

cgggcttcct agccggcgac aagctggcct gcgccatcgt caacacggcc ggccgcgaga 17640

ccggaggcgt gcactggctc gccttcggct ggaacccgcg ctcgcgcacc tgctacatgt 17700

tcgacccctt tgggttctcg gaccgccggc tcaagcagat ttacagcttc gagtacgagg 17760

ccatgctgcg ccgaagcgcc ctggcctcct cgcccgaccg ctgtctcagc ctcgaacagt 17820

ccacccagac cgtgcagggg cccgactccg ccgcctgcgg actttttttgt tgcatgttct 17880

tgcatgcgtt cgtgcactgg cccgaccgac ccatggacgg aaaccccacc atgaacttgc 17940

tgacgggggt gcccaacggc atgctacaat cgccacaggt gctgcccacc ctccggcgca 18000

accaggagga gctctaccgc ttcctcgcgc gccactcccc ttacttccga tcccaccgcg 18060

ccgccatcga acacgccacc gcttttgaca aaatgaaaca actgcgtgta tctcaataaa 18120

cagcactttt tattttacat gcactggagt atatgcaagt tatttaaaag tcgaaggggt 18180

tctcgcgctc gtcgttgtgc gccgcgctgg ggagggccac gttgcggtac tggtacttgg 18240

aaagccactt gaactcgggg atcaccagtt tgggcactgg ggtctcgggg aaggtctcgc 18300

tccacatgcg ccggctcatc tgcagggcgc ccagcatgtc agggccggag atcttgaaat 18360

cacagttggg gccggtgctc tgcgcgcgcg agttgcggta cacggggttg cagcactgga 18420

acaccatcag actggggtac ttcacactgg caagcacgct cttgtcgcta atctgatcct 18480

tgtccaggtc ctcggcgttg ctcaggccga acggggtcat cttgcacagc tggcggccca 18540

ggaagggcac gctctgaggc ttgtggttac actcgcagtg cacgggcatc agcatcatcc 18600

ccgcgccgcg ctgcatattc gggtagaggg ccttgacgaa ggccgcgatc tgcttgaaag 18660

cttgctgggc cttggccccc tcgctgaaga acagaccgca gctcttcccg ctgaactggt 18720

tattcccgca cccggcatca tgcacgcagc agcgcgcgtc atggctggtc agttgcacca 18780

cgctccgtcc ccagcggttc tgggtcacct tagccttgct gggctgctcc ttcagcgcgc 18840

gctgtccgtt ctcgctggtc acatccatct ccaccacgtg gtccttgtga atcatcaccg 18900

ttccatgcag acacttgagc tgaccttcca cctcggtgca gccgtgatcc cacaggacgc 18960

agccggtgca ctcccaattc ttgtgcgcga tcccgctgtg gctgaaaatg taaccttgca 19020

acaggcgacc cataatggtg ctaaatgatt tctgggtggt gaatgtcagt tgcatcccgc 19080

gggcctcctc gttcatccag gtctggcaca tcttctggaa gatctcggtc tgctccggca 19140

tgagcttgta agcatcgcgc aagccgctgt cgacgcggta gcgttccatc agcacgttca 19200

tggtatccat gcccttctcc catgacgaga ccagaggcag actcaggggg ttgcgcacgt 19260

tcaggacacc aggggtcgcg ggctcgacga tgcgttttcc gtccttgcct tccttcaaca 19320

gaaccggagg ctggctgaat cccactccca cgatcacggc gtcttcctgg ggcatctctt 19380

cgtcggggtc taccttggtc acatgcttgg tctttctggc ttgcttcttt tttggagggc 19440

tgtccacggg gaccacgtcc tcctcggaag acccggagcc cacccgctga tactttcggc 19500

gcttggtggg cagaggaggt ggcggcggcg aggggctcct ctcctgctcc ggcggatagc 19560

gcgccgaccc gtggccccgg ggcggagtgg cctctcgctc catgaaccgg cgcacgtcct 19620

gactgccgcc ggccattgtt tcctagggga agatggagga gcagccgcgt aagcaggagc 19680

aggaggagga cttaaccacc cacgagcaac ccaaaatcga gcaggacctg ggcttcgaag 19740

agccggctcg tctaaaaccc ccacaggatg aacaggagca cgagcaagac gcaggccagg 19800

aggagaccga cgctgggctc gagcatggct acctgggagg agaggaggat gtgctgctaa 19860

aacacctgca gcgccagtcc ctcatcctcc gggacgccct ggccgaccgg agcgaaaccc 19920

ccctcagcgt cgaggagctg tgtcgggcct acgagctcaa cctcttctcg ccgcgcgtgc 19980

cccccaaacg ccagcccaac ggcacctgcg agcccaaccc gcgtctcaac ttctatcccg 20040

tctttgcggt ccccgaggcc cttgccacct atcacatctt tttcaagaac caaaagatcc 20100

ccatctcctg tcgcgccaat cgcactcgcg ccgacgcgct cctcgctctg gggcccggcg 20160

cgcgcatacc tgatatcgct tccctggaag aggtgcccaa gatcttcgaa gggctcggtc 20220

gggacgagac gcgcgcggca aacgctctga aagaaacagc agaggaagag ggttacacta 20280

gcgccctggt agagttggaa ggcgacaacg ccaggctggc cgtgcttaag cgcagcgtcg 20340

agctcaccca tttcgcctac cccgccgtca acctcccgcc caaggtcatg cgtcgcatca 20400

tggatcagct catcatgccc cacatcgagg cccttgatga aagtcaggaa cagcgccccg 20460

agaacgccca gcccgtggtc agcgacgaga tgctcgcgcg ctggctcggg acccgcgacc 20520

cccaggccct ggagcagcgg cgcaagctca tgctggccgt ggtcctggtc acccttgagc 20580

tcgaatgcat gcgccgcttt tttaccgacc ccgagaccct gcgcaaggtc gaggagaccc 20640

tgcactacac tttcagacac ggtttcgtca ggcaggcctg caagatctcc aacgtggagc 20700

tgaccaacct ggtctcctgc ctggggatcc tacacgagaa ccgcttggga cagaccgtgc 20760

tccactctac cctgaagggc gaggcgcggc gggactacat ccgcgactgc gtctttctct 20820

ttctctgcca cacatggcaa gcggccatgg gcgtgtggca gcagtgtctc gaggacgaga 20880

acctgaagga gctggacaag cttcttgcta gaaaccttaa aaagctgtgg acgggcttcg 20940

acgagcgcac cgtcgcctcg gacctggccg agatcgtctt ccccgagcgc ctgaggcaga 21000

cgctgaaagg agggctgccc gacttcatga gccagagcat gttgcaaaac taccgcactt 21060

tcattctcga gcgatctggg atgctgcccg ccacctgcaa cgccttcccc tccgactttg 21120

tcccgctgag ctaccgcgag tgtcccccgc cgctgtggag ccactgctac ctcttgcagc 21180

tggccaacta cattgcccac cactcggatg tgatcgagga cgtgagcggc gaggggctgc 21240

tcgagtgcca ctgtcgctgc aacctatgct ccccgcaccg ctccctggtc tgcaaccccc 21300

agctactgag cgagacccag gtcatcggta cctttgagct gcaaggtccg caggagtcca 21360

ccgctccgct gaaactcacg ccggggttgt ggacttccgc gtacctgcgc aaatttgtac 21420

ccgaggacta ctacgcccat gagataaagt tcttcgagga ccaatcgcgt ccgcagcacg 21480

cggatctcac ggcctgcgtc atcacccagg gcgcgatcct cgcccaattg cacgccatcc 21540

aaaaatcccg ccaagagttt cttctgaaaa agggtagagg ggtctacctg gacccccaga 21600

cgggcgaggt gctcaacccg ggtctccccc agcatgccga ggaagaagca ggagccgcta 21660

gtggaggaga tggaagaaga atgggacagc caggcagagg aggacgaatg ggaggaggag 21720

acagaggagg aagacttgga agaggtggaa gaggagcagg caacagagca gcccgtcgcc 21780

gcaccatccg cgccggcagc ccctccggtc acggatacaa cctccgcagc tccggccaag 21840

cctcctcgta gatgggatcg agtgaagggt gacggtaagc acgagcgaca gggctaccga 21900

tcatggaggg cccacaaagc cgcgatcatc gcctgcttgc aagactgcgg ggggaacatc 21960

gctttcgccc gccgctacct gctcttccac cgcggggtga acatcccccg caacgtgttg 22020

cattactacc gtcaccttca cagctaagaa aaagcaagtc aaaggagtcg ccggaggagg 22080

aggcctgagg atcgcggcga acgagccctt gaccaccagg gagctgagga accggatctt 22140

ccccactctt tatgccattt ttcagcaaag tcgaggtcag cagcaagagc tcaaagtaaa 22200

aaaccggtct ctgcgctcgc tcacccgcag ttgcttgtac cacaaaaacg aagatcagct 22260

gcagcgcact ctcgaagacg ccgaggctct gttccacaag tactgcgcgc tgactcttaa 22320

agactaaggc gcgcccaccc ggaaaaaagg cgggaattac ctcatcgcca ccatgagcaa 22380

ggagattccc accccttaca tgtggagcta tcagccccag atgggcctgg ccgcgggcgc 22440

ctcccaggac tactccaccc gcatgaactg gcttagtgcc ggcccctcga tgatctcacg 22500

ggtcaacggg gtccgtaacc atcgaaacca gatattgttg cagcaggcgg cggtcacctc 22560

cacgcccagg gcaaagctca acccgcgtaa ttggccctcc accctggtgt atcaggaaat 22620

ccccgggccg actaccgtac tacttccgcg tgacgcactg gccgaagtcc gcatgactaa 22680

ctcaggtgtc cagctggccg gcggcgcttc ccggtgcccg ctccgcccac aatcgggtat 22740

aaaaaccctg gtgatccgag gcagaggcac acagctcaac gacgagttgg tgagctctta 22800

caatcgtctg cgaccggacg gagtgttcca actagccgga gccgggagat cgtccttcac 22860

tcccaaccag gcctacctga ccttgcagag cagctcttcg gagcctcgct cgggaggcat 22920

cggaacccac cagttcgtgg aggagtttgt gccctcggtc tacttcaacc ccttctcggg 22980

ctcgccaggc ctctacccgg acgagtttat accgaacttc gacgcagtga gagaagcggt 23040

ggacggctac gactgaagct tgttgattaa aagcccagaa accaatcaga cccttcctca 23100

tttccccatc ccaatactca taagaataaa tcattggaat taatcattca ataaagatca 23160

cttacttgaa atctgaaagt atgtctctgg tgtagttgct cagcaacacc tcggtaccct 23220

cctcccagct ctggtactcc agtccccggc gggcggcgaa cttcctccac accttgaaag 23280

ggatgtcaaa gaggctccgg gtggaagatg acttcaaccc cgtctacccc tatggctacg 23340

cgcggaatca gaatatcccc ttcctcactc ccccctttgt ctcctccgat ggattcaaaa 23400

acttcccccc tggggtactg tcactcaaac tggctgatcc aatcaccatt accaatgggg 23460

atgtatccct caaggtggga ggtggtctca ctttgcaaga tggaagccta actgtaaacc 23520

ctaaggctcc actgcaagtt aatactgata aaaaacttga gcttgcatat gataatccat 23580

ttgaaagtag tgctaataaa cttagtttaa aagtaggaca tggattaaaa gtattagatg 23640

aaaaaagtgc tgcggggtta aaagatttaa ttggcaaact tgtggtttta acaggaaaag 23700

gaataggcac tgaaaattta gaaaatacag atggtagcag cagaggaatt ggtataaatg 23760

taagagcaag agaagggttg acatttgaca atgatggata cttggtagca tggaacccaa 23820

agtatgacac gcgcacactt tggacaacac cagacacatc tccaaactgc acaattgctc 23880

aagataagga ctctaaactc actttggtac ttacaaagtg tggaagtcaa atattagcta 23940

atgtgtcttt gattgtggtc gcaggaaagt accacatcat aaataataag acaaatccaa 24000

aaataaaaag ttttactatt aaactgctat ttaataagaa cggagtgctt ttagacaact 24060

caaatcttgg aaaagcttat tggaacttta gaagtggaaa ttccaatgtt tcgacagctt 24120

atgaaaaagc aattggtttt atgcctaatt tggtagcgta tccaaaaccc agtaattcta 24180

aaaaatatgc aagagacata gtttatggaa ctatatatct tggtggaaaa cctgatcagc 24240

cagcagtcat taaaactacc tttaaccaag aaactggatg tgaatactct atcacattta 24300

actttagttg gtccaaaacc tatgaaaatg ttgaatttga aaccacctct tttaccttct 24360

cctatattgc ccaagaatga aagaccaata aacgtgtttt tcatttgaaa ttttcatgta 24420

tctttattga tttttacacc agcacgagta gacagtctcc caccaccagc ccattttaca 24480

gtgtacacgg ttctctcagc acgggtagcc ttaaataggg aaatattctc attagtgcgg 24540

gaattggact tggggtctat aatccacaca gtttcctggc gagccaaacg ggggtcggtg 24600

attgaaataa agccgtcctc tgaaaagtca tccaagcggg cctcacagtc caaggtcaca 24660

gtctggtgga acgagaagaa cgcacagatt catactcgga aaacaggatg ggtctgtgcc 24720

tctccatcag cgccctcagc agtctctgcc gccggggctc ggtgcggctg ctgcaaatgg 24780

gatcgggatc acaagtctct ctgactatga tcccaacagc cttcagcatc agtctcctgg 24840

tgcgacgggc acagcaccgc atcctgatct ctgccatgtt ctcacagtaa gtgcagcaca 24900

taatcaccat gttattcagc agcccataat tcagggcgct ccagccaaag ctcatgttgg 24960

gaatgatgga acccacgtga ccatcgtacc agatgcgaca gtatatcaga tgcctgcccc 25020

tcatgaacac actgcccatg tacatgatct ctttgggcat gtttctgttt acaatctggc 25080

ggtaccaggg gaagcgctgg ttgaacatgc acccgtaaat gactctcctg aaccacacgg 25140

ccagcagggt gcctcccgcc cgacactgca gggagccagg ggatgaacag tggcaatgca 25200

ggatccagcg ctcgtacccg ctcaccattt gagctcttac caagtccagg gtagcggggc 25260

acaggcacac tgacatacat ctttttaaaa tttttatttc ctctgtggtg aggatcatat 25320

cccaggggac tggaaactct tggagcaggg taaagccagc agcacatggt aatccacgga 25380

cagaacttac attatgataa tctgcatgat cacaatcggg caacagggga tgttgttcag 25440

tcagtgaagc cctggtttcc tcatcagatc gtggtaaacg ggccctgcga tatggatgat 25500

ggcggagcga gctggattga atctcggttt gcattgtagt ggattctctt gcgtaccttg 25560

tcgtacttct gccagcagaa atgggccctt gaacagcata tacccctcct acggccgtcc 25620

tttcgctgct gccgctcagt catccaacta aagtacatcc attctcgaag attctggaga 25680

agttcctctg catctgataa aataaaaaac ccgtccatgc gaattcccct catcacatca 25740

gccaggactc tgtaggccat ccccatccag ttaatgctgc cttgtctatc attcagaggg 25800

ggcggtggca ggactggaag aaccattttt attccaaacg gtctcgaagg acgataaagt 25860

gcaagtcacg caggtgacag cgttcccctc cgctgtgctg gtggaaacag acagccaggt 25920

caaaacccac tctattttca aggtgctcga ccgtggcttc gagcagtggc tctacgcgca 25980

catccagcat aagaatcaca ttaaaggctg gccctccatc gatttcatca atcatcaggt 26040

tacattcctg caccatcccc aggtaattct catttttcca gccttggatt atctctacaa 26100

attgttggtg taagtccact ccgcacatgt ggaaaagctc ccacagtgcc ccctccactt 26160

tcataatcag gcagaccttc ataatagaaa cagatcctgc tgctccacca cctgcagcgt 26220

gttcaaaaca acaagattca ataaggttct gccctccgcc ctgagctcgc gcctcaatgt 26280

cagctgcaaa aagtcactta agtcctgggc cactacagct gacaattcag agccagggct 26340

aagcgtggga ctggcaagcg taagggaaaa ctttaatgct ccaaagctag cacccaaaaa 26400

ctgcatgctg gaataagctc tctttgtgtc tccggtgatg ccttccaaaa tgtgagtgat 26460

aaagcgtggt agtttttctt taatcatttg cgtaatagaa aagtcctcta aataagtcac 26520

taggacccca gggaccacaa tgtggtagct tacaccgcgt cgctgaagca tggttagtag 26580

agatgagagt ctgaaaaaca gaaagcatgc actaaactaa ggtggctatt ttcactgaag 26640

gaaaaatcac tctctccagc agcagggtac ccactgggtg gcccttgcgg acatacaaaa 26700

atcggtccgt gtgattaaaa agcagcacag taagttcctg tcttcttccg gcaaaaatca 26760

catcagactg ggttagtatg tccctggcat ggtagtcatt caaggccata aatctgccct 26820

gatatccagt aggaaccagc acactcactt ttaggtgaag caataccacc ccatgcggag 26880

gaatgtggaa agattcaggg caaaaaaatt atatctattg ctagcccctt cctggacggg 26940

agcaatccct ccaggactat ctataaaagc atacagagat tcagccatag cttagcccgc 27000

ttaccagtag acagaaagca cagcagtaca agcgccaaca gcagcaactg actacccact 27060

gacccagctc cctatttaaa ggcaccttac actgacgtaa tgaccaaagg tctaaaaacc 27120

ccgccaaaaa aaacacacac gccctgggtg tttttcacaa aaacacttcc gcgttctcac 27180
ttcctcgtat cgattttgtg actcaacttc cgggttccca cgttacgtca cttctgccct 27240
tacatgtaac ttggccgtat ggcgccatct tgcccacgtc caaaatggct ttcatgaccg 27300
gccacgcctc cgcgccggcc gttagccgtg cgtcgtgacg ttatttgcat caccgcttct 27360
cgtccaatca gcgttggctc cgccccaaaa ccgttaaaat tcaaaagctc atttgcatat 27420
taacttttgt ttactttgtg gggtatatta ttagatagtt aattaaggat gcatgtttaa 27480
actcgacagc gacacacttg catcggatgc agcccggtta acgtgccggc acggcctggg 27540
taaccaggta ttttgtccac ataaccgtgc gcaaaatgtt gtggataagc aggacacagc 27600
agcaatccac agcaggcata caaccgcaca ccgaggttac tccgttctac aggttacgac 27660
gacatgtcaa tacttgccct tgacaggcat tgatggaatc gtagtctcac gctgatagtc 27720
tgatcgacaa tacaagtggg accgtggtcc cagaccgata atcagaccga caacacgagt 27780
gggatcgtgg tcccagacta ataatcagac cgacgatacg agtgggaccg tggtcccaga 27840
ctaataatca gaccgacgat acgagtggga ccgtggttcc agactaataa tcagaccgac 27900
gatacgagtg ggaccgtggt cccagactaa taatcagacc gacgatacga gtgggaccat 27960
ggtcccagac taataatcag accgacgata cgagtgggac cgtggtccca gtctgattat 28020
cagaccgacg atacgagtgg gaccgtggtc ccagactaat aatcagaccg acgatacgag 28080
tgggaccgtg gtcccagact aataatcaga ccgacgatac gagtgggacc gtggtcccag 28140
tctgattatc agaccgacga tacaagtgga acagtgggcc cagagagaat attcaggcca 28200
gttatgcttt ctggcctgta acaaaggaca ttaagtaaag acagataaac gtagactaaa 28260
acgtggtcgc atcagggtgc tggcttttca agttccttaa gaatggcctc aattttctct 28320
atacactcag ttggaacacg agacctgtcc aggttaagca ccattttatc gcccttatac 28380
aatactgtcg ctccaggagc aaactgatgt cgtgagctta aactagttct tgatgcagat 28440
gacgttttaa gcacagaagt taaaagagtg ataacttctt cagcttcaaa tatcacccca 28500
gctttttttct gctcatgaag gttagatgcc tgctgcttaa gtaattcctc tttatctgta 28560
aaggcttttt gaagtgcatc acctgaccgg gcagatagtt caccggggtg agaaaaaaga 28620
gcaacaactg atttaggcaa tttggcggtg ttgatacagc gggtaataat cttacgtgaa 28680
atattttccg catcagccag cgcagaaata tttccagcaa attcattctg caatcggctt 28740
gcataacgct gaccacgttc ataagcactt gttgggcgat aatcgttacc caatctggat 28800
aatgcagcca tctgctcatc atccagctcg ccaaccagaa cacgataatc actttcggta 28860
agtgcagcag ctttacgacg gcgactccca tcggcaattt ctatgacacc agatactctt 28920

cgaccgaacg ccggtgtctg ttgaccagtc agtagaaaag aagggatgag atcatccagt 28980

gcgtcctcag taagcagctc ctggtcacgt tcattacctg accatacccg agaggtcttc 29040

tcaacactat caccccggag cacttcaaga gtaaacttca catcccgacc acatacaggc 29100

aaagtaatgg cattaccgcg agccattact cctacgcgcg caattaacga atccaccatc 29160

ggggcagctg gtgtcgataa cgaagtatct tcaaccggtt gagtattgag cgtatgtttt 29220

ggaataacag gcgcacgctt cattatctaa tctcccagcg tggtttaatc agacgatcga 29280

aaatttcatt gcagacaggt tcccaaatag aaagagcatt tctccaggca ccagttgaag 29340

agcgttgatc aatggcctgt tcaaaaacag ttctcatccg gatctgacct ttaccaactt 29400

catccgtttc acgtacaaca ttttttagaa ccatgcttcc ccaggcatcc cgaatttgct 29460

cctccatcca cggggactga gagccattac tattgctgta tttggtaagc aaaatacgta 29520

catcaggctc gaacccttta agatcaacgt tcttgagcag atcacgaagc atatcgaaaa 29580

actgcagtgc ggaggtgtag tcaaacaact cagcaggcgt gggaacaatc agcacatcag 29640

cagcacatac gacattaatc gtgccgatac ccaggttagg cgcgctgtca ataactatga 29700

catcatagtc atgagcaaca gtttcaatgg ccagtcggag catcaggtgt ggatcggtgg 29760

gcagtttacc ttcatcaaat ttgcccatta actcagtttc aatacggtgc agagccagac 29820

aggaaggaat aatgtcaagc cccggccagc aagtgggctt tattgcataa gtgacatcgt 29880

ccttttcccc aagatagaaa ggcaggagag tgtcttctgc atgaatatga agatctggta 29940

cccatccgtg atacattgag gctgttccct gggggtcgtt accttccacg agcaaaacac 30000

gtagcccctt cagagccaga tcctgagcaa gatgaacaga aactgaggtt ttgtaaacgc 30060

caccttttatg ggcagcaacc ccgatcaccg gtggaaatac gtcttcagca cgtcgcaatc 30120

gcgtaccaaa cacatcacgc atatgattaa tttgttcaat tgtataacca acacgttgct 30180

caacccgtcc tcgaatttcc atatccgggt gcggtagtcg ccctgctttc tcggcatctc 30240

tgatagcctg agaagaaacc ccaactaaat ccgctgcttc acctattctc cagcgccggg 30300

ttattttcct cgcttccggg ctgtcatcat taaactgtgc aatggcgata gccttcgtca 30360

tttcatgacc agcgtttatg cactggttaa gtgtttccat gagtttcatt ctgaacatcc 30420

tttaatcatt gctttgcgtt tttttattaa atcttgcaat ttactgcaaa gcaacaacaa 30480

aatcgcaaag tcatcaaaaa accgcaaagt tgtttaaaat aagagcaaca ctacaaaagg 30540

agataagaag agcacatacc tcagtcactt attatcacta gcgctcgccg cagccgtgta 30600

accgagcata gcgagcgaac tggcgaggaa gcaaagaaga actgttctgt cagatagctc 30660

ttacgctcag cgcaagaaga aatatccacc gtgggaaaaa ctccaggtag aggtacacac 30720

gcggatagcc aattcagagt aataaactgt gataatcaac cctcatcaat gatgacgaac 30780

taacccccga tatcaggtca catgacgaag ggaaagagaa ggaaatcaac tgtgacaaac 30840

tgccctcaaa tttggcttcc ttaaaaatta cagttcaaaa agtatgagaa aatccatgca 30900

ggctgaagga aacagcaaaa ctgtgacaaa ttaccctcag taggtcagaa caaatgtgac 30960

gaaccaccct caaatctgtg acagataacc ctcagactat cctgtcgtca tggaagtgat 31020

atcgcggaag gaaaatacga tatgagtcgt ctggcggcct ttctttttct caatgtatga 31080

gaggcgcatt ggagttctgc tgttgatctc attaacacag acctgcagga agcggcggcg 31140

gaagtcaggc atacgctggt aactttgagg cagctggtaa cgctctatga tccagtcgat 31200

tttcagagag acgatgcctg agccatccgg cttacgatac tgacacaggg attcgtataa 31260

acgcatggca tacggattgg tgatttcttt tgtttcacta agccgaaact gcgtaaaccg 31320

gttctgtaac ccgataaaga agggaatgag atatgggttg atatgtacac tgtaaagccc 31380

tctggatgga ctgtgcgcac gtttgataaa ccaaggaaaa gattcatagc ctttttcatc 31440

gccggcatcc tcttcagggc gataaaaaac cacttccttc cccgcgaaac tcttcaatgc 31500

ctgccgtata tccttactgg cttccgcaga ggtcaatccg aatatttcag catatttagc 31560

aacatggatc tcgcagatac cgtcatgttc ctgtagggtg ccatcagatt ttctgatctg 31620

gtcaacgaac agatacagca tacgtttttg atcccgggag agactatatg ccgcctcagt 31680

gaggtcgttt gactggacga ttcgcgggct atttttacgt ttcttgtgat tgataaccgc 31740

tgtttccgcc atgacagatc catgtgaagt gtgacaagtt tttagattgt cacactaaat 31800

aaaaaagagt caataagcag ggataacttt gtgaaaaaac agcttcttct gagggcaatt 31860

tgtcacaggg ttaagggcaa tttgtcacag acaggactgt catttgaggg tgatttgtca 31920

cactgaaagg gcaatttgtc acaacacctt ctctagaacc agcatggata aaggcctaca 31980

aggcgctcta aaaaagaaga tctaaaaact ataaaaaaaa taattataaa aatatccccg 32040

tggataagtg gataacccca agggaagttt tttcaggcat cgtgtgtaag cagaatatat 32100

aagtgctgtt ccctggtgct tcctcgctca ctcgagggct tcgccgtcgc tcgactgcgg 32160

cgagcctact ggctgtaaaa ggacagacca catcatggtt ctgtgttcat taggttgttc 32220

tgtccattgc tgacataatc cgctccactt caacgtaaca ccgcacgaag atttctattg 32280

ttcctgaagg catattcaaa tcgttttcgt taccgcttgc aggcatcatg acagaacact 32340

acttcctata aacgctacac aggctcctga gattaataat gcggatctct acgataatgg 32400

gagattttcc cgactgtttc gttcgcttct cagtggataa cagccagctt ctctgtttaa 32460

cagacaaaaa cagcatatcc actcagttcc acatttccat ataaaggcca aggcatttat 32520

tctcaggata attgtttcag catcgcaacc gcatcagact ccggcatcgc aaactgcacc 32580

cggtgccggg cagccacatc cagcgcaaaa accttcgtgt agacttccgt tgaactgatg 32640

gacttatgtc ccatcaggct ttgcagaact ttcagcggta taccggcata cagcatgtgc 32700

atcgcatagg aatggcggaa cgtatgtggt gtgaccggaa cagagaacgt cacaccgtca 32760

gcagcagcgg cggcaaccgc ctccccaatc caggtcctga ccgttctgtc cgtcacttcc 32820

cagatccgcg ctttctctgt ccttcctgtg cgacggttac gccgctccat gagcttatcg 32880

cgaataaata cctgtgacgg aagatcactt cgcagaataa ataaatcctg gtgtccctgt 32940

tgataccggg aagccctggg ccaacttttg gcgaaaatga gacgttgatc ggcacgtaag 33000

aggttccaac tttcaccata atgaaataag atcactaccg ggcgtatttt ttgagttatc 33060

gagattttca ggagctaagg aagctaaaat ggagaaaaaa atcactggat ataccaccgt 33120

tgatatatcc caatggcatc gtaaagaaca ttttgaggca tttcagtcag ttgctcaatg 33180

tacctataac cagaccgttc agctggatat tacggccttt ttaaagaccg taaagaaaaa 33240

taagcacaag ttttatccgg cctttattca cattcttgcc cgcctgatga atgctcatcc 33300

ggaattccgt atggcaatga aagacggtga gctggtgata tgggatagtg ttcacccttg 33360

ttacaccgtt ttccatgagc aaactgaaac gttttcatcg ctctggagtg aataccacga 33420

cgatttccgg cagtttctac acatatattc gcaagatgtg gcgtgttacg gtgaaaacct 33480

ggcctatttc cctaaagggt ttattgagaa tatgtttttc gtctcagcca atccctgggt 33540

gagtttcacc agttttgatt taaacgtggc caatatggac aacttcttcg cccccgtttt 33600

caccatgggc aaatattata cgcaaggcga caaggtgctg atgccgctgg cgattcaggt 33660

tcatcatgcc gtctgtgatg gcttccatgt cggcagaatg cttaatgaat tacaacagta 33720

ctgcgatgag tggcagggcg gggcgtaatt tttttaaggc agttattggt gcccttaaac 33780

gcctggttgc tacgcctgaa taagtgataa taagcggatg aatggcagaa attcgatgat 33840

aagctgtcaa acatgagaat gggtcgag 33868

<210> 15
<211> 3350
<212> DNA
<213> artificial

<220>
<223> synthetic

<400> 15
taactatcta ataatatacc ccacaaagta aacaaaagtt aatatgcaaa tgagcttttg 60

aattttaacg gttttggggc ggagccaacg ctgattggac gagaagcggt gatgcaaata 120

acgtcacgac gcacggctaa cggccggcgc ggaggcgtgg cctaggccgg aagcaagtcg 180

cggggctaat gacgtataaa aaagcggact ttagacccgg aaacggccga ttttcccgcg 240

gccacgcccg gatatgaggt aattctgggc ggatgcaagt gaaattaggt cattttggcg 300

ccaaaactga atgaggaagt gaaaagtgaa aaatacctgt cccgcccagg gcggaatatt 360

taccgagggc cgagagactt tgaccgatta cgtggggttt cgattgcggt gttttttcg 420

cgagaaggta aactgcccac ttggcagtac atcaagtgta tcatatgcca agtacgcccc 480

ctattgacgt caatgacggt aaatggcccg cctggcatta tgcccagtac atgaccttat 540

gggactttcc tacttggcag tacatctacg tattagtcat cgctattacc atggtgatgc 600

ggttttggca gtacatcaat gggcgtggat agcggtttga ctcacgggga tttccaagtc 660

tccaccccat tgacgtcaat gggagtttgt tttggcacca aaatcaacgg gactttccaa 720

aatgtcgtaa caactccgcc ccattgacgc aaatgggcgg taggcgtgta cggtgggagg 780

tctatataag cagagctggt ttagtgaacc gtcagatccg ctagcgctac cggactcaga 840

tctcgagctc aagcttcgaa ttctgcagtc gacggtaccg cgggcccggg atccaccggt 900

cgccaccatg gtgagcaagg gcgaggagct gttcaccggg gtggtgccca tcctggtcga 960

gctggacggc gacgtaaacg gccacaagtt cagcgtgtcc ggcgagggcg agggcgatgc 1020

cacctacggc aagctgaccc tgaagttcat ctgcaccacc ggcaagctgc ccgtgccctg 1080

gcccaccctc gtgaccaccc tgacctacgg cgtgcagtgc ttcagccgct accccgacca 1140

catgaagcag cacgacttct tcaagtccgc catgcccgaa ggctacgtcc aggagcgcac 1200

catcttcttc aaggacgacg gcaactacaa gacccgcgcc gaggtgaagt tcgagggcga 1260

caccctggtg aaccgcatcg agctgaaggg catcgacttc aaggaggacg gcaacatcct 1320

ggggcacaag ctggagtaca actacaacag ccacaacgtc tatatcatgg ccgacaagca 1380

gaagaacggc atcaaggtga acttcaagat ccgccacaac atcgaggacg gcagcgtgca 1440

gctcgccgac cactaccagc agaacacccc catcggcgac ggccccgtgc tgctgcccga 1500

caaccactac ctgagcaccc agtccgccct gagcaaagac cccaacgaga agcgcgatca 1560

catggtcctg ctggagttcg tgaccgccgc cgggatcact ctcggcatgg acgagctgta 1620

caagtaaagc ggccgcgact ctagatcata atcagccata ccacatttgt agaggtttta 1680

cttgctttaa aaaacctccc acacctcccc ctgaacctga aacataaaat gaatgcaatt 1740

gttgttgtta acttgtttat tgcagcttat aatggttaca aataaagcaa tagcatcaca 1800

aatttcacaa ataaagcatt tttttcactg cattctagtt gtggtttgtc caaactcatc 1860

aatgtatctt aaatcgaatt caagcttgtc gactcgaaga tctgagctca cgcgtgaagt 1920

tcctattctc tagaaagtat aggaacttca attcccatgt cagccgttaa gtgttcctgt 1980

gtcactcaaa attgctttga gaggctctaa gggcttctca gtgcgttaca tccctggctt 2040

gttgtccaca accgttaaac cttaaaagct ttaaaagcct tatatattct ttttttcctt 2100

ataaaactta aaaccttaga ggctatttaa gttgctgatt tatattaatt ttattgttca 2160

aacatgagag cttagtacgt gaaacatgag agcttagtac gttagccatg agagcttagt 2220

acgttagcca tgagggttta gttcgttaaa catgagagct tagtacgtta aacatgagag 2280

cttagtacgt gaaacatgag agcttagtac gtactatcaa caggttgaac tgctgatctt 2340

cagatcctct acgccggacg catcgtggcc ggatccgatt tattcaacaa agccacgttg 2400

tgtctcaaaa tctctgatgt tacattgcac aagataaaaa tatatcatca tgaacaataa 2460

aactgtctgc ttacataaac agtaatacaa ggggtgttat gagccatatt caacgggaaa 2520

cgtcttgctc gaggccgcga ttaaattcca acatggatgc tgatttatat gggtataaat 2580

gggctcgcga taatgtcggg caatcaggtg cgacaatcta tcgattgtat gggaagcccg 2640

atgcgccaga gttgtttctg aaacatggca aaggtagcgt tgccaatgat gttacagatg 2700

agatggtcag actaaactgg ctgacggaat ttatgcctct tccgaccatc aagcatttta 2760

tccgtactcc tgatgatgca tggttactca ccactgcgat ccccgggaaa acagcattcc 2820

aggtattaga agaatatcct gattcaggtg aaaatattgt tgatgcgctg gcagtgttcc 2880

tgcgccggtt gcattcgatt cctgtttgta attgtccttt taacagcgat cgcgtatttc 2940

gtctcgctca ggcgcaatca cgaatgaata acggtttggt tgatgcgagt gattttgatg 3000

acgagcgtaa tggctggcct gttgaacaag tctggaaaga aatgcataag cttttgccat 3060

tctcaccgga ttcagtcgtc actcatggtg atttctcact tgataacctt atttttgacg 3120

aggggaaatt aataggttgt attgatgttg gacgagtcgg aatcgcagac cgataccagg 3180

atcttgccat cctatggaac tgcctcggtg agttttctcc ttcattacag aaacggcttt 3240

ttcaaaaata tggtattgat aatcctgata tgaataaatt gcagtttcat ttgatgctcg 3300

atgagttttt ctaatcagaa ttggttaatt ggttgtaaca ctggcttaat 3350

<210> 16
<211> 38159
<212> DNA
<213> artificial

<220>
<223> synthethic

<400> 16
gaagttccta ttccgaagtt cctattctct agaaagtata ggaacttcaa ttcccatgtc 60

agccgttaag tgttcctgtg tcactcaaaa ttgctttgag aggctctaag ggcttctcag 120

tgcgttacat ccctggcttg ttgtccacaa ccgttaaacc ttaaaagctt taaaagcctt 180

atatattctt ttttttctta taaaacttaa aaccttagag gctatttaag ttgctgattt 240

atattaattt tattgttcaa acatgagagc ttagtacgtg aaacatgaga gcttagtacg 300

ttagccatga gagcttagta cgttagccat gagggtttag ttcgttaaac atgagagctt 360

agtacgttaa acatgagagc ttagtacgtg aaacatgaga gcttagtacg tactatcaac 420

aggttgaact gctgatcttc agatcctcta cgccggacgc atcgtggccg gatccgattt 480

attcaacaaa gccacgttgt gtctcaaaat ctctgatgtt acattgcaca agataaaaat 540

atatcatcat gaacaataaa actgtctgct tacataaaca gtaatacaag gggtgttatg 600

agccatattc aacgggaaac gtcttgctcg aggccgcgat taaattccaa catggatgct 660

gatttatatg ggtataaatg ggctcgcgat aatgtcgggc aatcaggtgc gacaatctat 720

cgattgtatg ggaagcccga tgcgccagag ttgtttctga aacatggcaa aggtagcgtt 780

gccaatgatg ttacagatga gatggtcaga ctaaactggc tgacggaatt tatgcctctt 840

ccgaccatca agcattttat ccgtactcct gatgatgcat ggttactcac cactgcgatc 900

cccgggaaaa cagcattcca ggtattagaa gaatatcctg attcaggtga aaatattgtt 960

gatgcgctgg cagtgttcct gcgccggttg cattcgattc ctgtttgtaa ttgtcctttt 1020

aacagcgatc gcgtatttcg tctcgctcag gcgcaatcac gaatgaataa cggtttggtt 1080

gatgcgagtg attttgatga cgagcgtaat ggctggcctg ttgaacaagt ctggaaagaa 1140

atgcataagc ttttgccatt ctcaccggat tcagtcgtca ctcatggtga tttctcactt 1200

gataacctta tttttgacga ggggaaatta ataggttgta ttgatgttgg acgagtcgga 1260

atcgcagacc gataccagga tcttgccatc ctatggaact gcctcggtga gttttctcct 1320

tcattacaga aacggctttt tcaaaaatat ggtattgata atcctgatat gaataaattg 1380

cagtttcatt tgatgctcga tgagtttttc taatcagaat tggttaattg gttgtaacac 1440

tggcttaatt aactatctaa taatataccc cacaaagtaa acaaaagtta atatgcaaat 1500

gagcttttga attttaacgg ttttggggcg gagccaacgc tgattggacg agaagcggtg 1560

atgcaaataa cgtcacgacg cacggctaac ggccggcgcg gaggcgtggc ctaggccgga 1620

agcaagtcgc ggggctaatg acgtataaaa aagcggactt tagacccgga aacggccgat 1680

tttcccgcgg ccacgcccgg atatgaggta attctgggcg gatgcaagtg aaattaggtc 1740

attttggcgc caaaactgaa tgaggaagtg aaaagtgaaa aatacctgtc ccgcccaggg 1800

cggaatattt accgagggcc gagagacttt gaccgattac gtggggtttc gattgcggtg 1860

tttttttcgc gagaaggtaa actgcccact tggcagtaca tcaagtgtat catatgccaa 1920

gtacgccccc tattgacgtc aatgacggta aatggcccgc ctggcattat gcccagtaca 1980

tgaccttatg ggactttcct acttggcagt acatctacgt attagtcatc gctattacca 2040

tggtgatgcg gttttggcag tacatcaatg ggcgtggata gcggtttgac tcacggggat 2100

ttccaagtct ccaccccatt gacgtcaatg ggagtttgtt ttggcaccaa aatcaacggg 2160

actttccaaa atgtcgtaac aactccgccc cattgacgca aatgggcggt aggcgtgtac 2220

ggtgggaggt ctatataagc agagctggtt tagtgaaccg tcagatccgc tagcgctacc 2280

ggactcagat ctcgagctca agcttcgaat tctgcagtcg acggtaccgc gggcccggga 2340

tccaccggtc gccaccatgg tgagcaaggg cgaggagctg ttcaccgggg tggtgcccat 2400

cctggtcgag ctggacggcg acgtaaacgg ccacaagttc agcgtgtccg gcgagggcga 2460

gggcgatgcc acctacggca agctgaccct gaagttcatc tgcaccaccg gcaagctgcc 2520

cgtgccctgg cccaccctcg tgaccaccct gacctacggc gtgcagtgct tcagccgcta 2580

ccccgaccac atgaagcagc acgacttctt caagtccgcc atgcccgaag gctacgtcca 2640

ggagcgcacc atcttcttca aggacgacgg caactacaag acccgcgccg aggtgaagtt 2700

cgagggcgac accctggtga accgcatcga gctgaagggc atcgacttca aggaggacgg 2760

caacatcctg gggcacaagc tggagtacaa ctacaacagc cacaacgtct atatcatggc 2820

cgacaagcag aagaacggca tcaaggtgaa cttcaagatc cgccacaaca tcgaggacgg 2880

cagcgtgcag ctcgccgacc actaccagca gaacaccccc atcggcgacg gccccgtgct 2940

gctgcccgac aaccactacc tgagcaccca gtccgccctg agcaaagacc ccaacgagaa 3000

gcgcgatcac atggtcctgc tggagttcgt gaccgccgcc gggatcactc tcggcatgga 3060

cgagctgtac aagtaaagcg gccgcgactc tagatcataa tcagccatac cacatttgta 3120

gaggttttac ttgctttaaa aaacctccca cacctccccc tgaacctgaa acataaaatg 3180

aatgcaattg ttgttgttaa cttgtttatt gcagcttata atggttacaa ataaagcaat 3240

agcatcacaa atttcacaaa taaagcattt ttttcactgc attctagttg tggtttgtcc 3300

aaactcatca atgtatctta atcgaattc aagcttgtcg actcgaagat ctgagctcac 3360

gcgtgaagtt cctattctct agaaagtata ggaacttcgc gtaaattgta agcgttaata 3420

ttttgttaaa attcgcgtta aatttttgtt aaatcagctc atttttaac caataggccg 3480

aaatcggcaa aatcccttat aaatcaaaag aatagaccga gatagggttg agtgttgttc 3540

cagtttggaa caagagtcca ctattaaaga acgtggactc caacgtcaaa gggcgaaaaa 3600

ccgtctatca gggcgatggc ccactacgtg aaccatcacc ctaatcaagt tttttggggt 3660

cgaggtgccg taaagcacta aatcggaacc ctaaagggag cccccgattt agagcttgac 3720

ggggaaagcc ggcgaacgtg gcgagaaagg aagggaagaa agcgaaagga gcgggcgcta 3780

gggcgctggc aagtgtagcg gtcacgctgc gcgtaaccac cacacccgcc gcgcttaatg 3840

cgccgctaca gggcgcgtca ggtggcactt ttcggggaaa tgtgcgcgga acccctattt 3900

gtttatttt ctaaatacat tcaaatatgt atccgctcat gagacaataa ccctgataaa 3960

tgcttcaata atattgaaaa aggaagagtc ctgaggcgga aagaaccagc tgtggaatgt 4020

gtgtcagtta gggtgtggaa agtccccagg ctccccagca ggcagaagta tgcaaagcat 4080

gcatctcaat tagtcagcaa ccaggtgtgg aaagtcccca ggctccccag caggcagaag 4140

tatgcaaagc atgcatctca attagtcagc aaccatagtc ccgcccctaa ctccgcccat 4200

cccgccccta actccgccca gttccgccca ttctccgccc catggctgac taatttttt 4260

tatttatgca gaggccgagg ccgcctcggc ctctgagcta ttccagaagt agtgaggagg 4320

ctttttgga gggggtgggg taccaggtaa gtgtacccaa ttcgccctat agtgagtcgt 4380

attacaattc actggccgtc gttttacaac gtcgtgactg ggaaaaccct ggcgttaccc 4440

aacgtgagac cagaccacct ggtgatggcc tgtaccggga ccgagttcag ctccagtggg 4500

gaggacacag attagaggta ggtttgagta gtgggcgtgg ctaatgtgag tataaaggcg 4560

ggtgtcttac gagggtcttt ttgcttttct gcagacatca tgaacgggac cggcggggcc 4620

ttcgaagggg ggctttttag cccttatttg acaacccgcc tgccgggatg ggccggagtt 4680

cgtcagaatg tgatgggatc tacggtggat gggcgtccag tgcttccagc aaattcctcg 4740

accatgacct acgcgaccgt ggggagctcg tcgcttgaca gcaccgccgc agccgcggca 4800

gccgcagccg ccatgacagc gacgagactg gcctcgagct atatgcccag cagcggtagc 4860

agcccctctg tgcccagttc catcatcgcc gaggagaaac tgctggccct gctggccgag 4920

ctggaagccc tgagccgcca gctggccgcc ctgacccagc aggtgtccga tctccgcgag 4980

caacagcagc agcaaaataa atgaattcaa taaacacaga ttctgattca aacagcaaag 5040

catctttatt atttatttt tcgcgcgcgg taggccctgg tccacctctc ccgatcattg 5100

agagtgcggt ggatttttc caggacccgg tagaggtggg attggatgtt gaggtacatg 5160

ggcatgagcc cgtcccgggg gtggaggtag caccactgca tggcctcgtg ctctggggtc 5220

gtgttgtaga taatccagtc atagcagggg cgctgggcgt ggtgctggat gatgtccttg 5280

aggaggagac tgatggccac ggggagcccc ttggtgtagg tgttggcaaa gcggttaagc 5340

tgggagggat gcatgcgggg ggagatgatg tgcagtttgg cctggatctt gaggttggcg 5400

atgttgccac ccagatcccg ccgggggttc atattgtgca ggaccaccag aacggtgtag 5460

cccgtgcact tggggaactt atcatgcaac ttggaaggga atgcgtggaa gaatttggag 5520

acgcccttgt gcccgcccag gttttccatg cactcatcca tgatgatggc aatgggcccg 5580

tgggctgcgg ctttggcaaa aacgtttctg gggtcagaga catcataatt atgctcctgg 5640

gtgagatcat cataagacat tttaatgaat ttggggcgaa gggtgccaga ttgggggacg 5700

atcgttccct cgggccccgg ggcgaagttc ccctcgcaga tctgcatctc ccaggctttc 5760

atctcggagg gggggatcat gtccacctgc ggggcgatga aaaaaacggt ttccggggcg 5820

ggggtgatga gctgcgagga gagcaggttt cttaacagct gggacttgcc gcacccggtc 5880

gggccgtaga tgaccccgat gacgggttgc aggtggtagt tcaaggagat gcagctgccg 5940

tcgtcccgga ggaggggggc cacctcgttg agcatgtctc tcacttggag gttttcccgg 6000

acgagctcgc cgaggaggcg gtccccgccc agcgagagca gctcttgcag ggaagcaaag 6060

tttttcaggg gcttgagccc gtcggccatg ggcatcttgg caagggtctg cgagaggagc 6120

tccaggcggt cccatagctc ggtgacgtgc tctacggcat ctcgatccag cagacttcct 6180

cgtttcgggg gttgggacga ctgcgactgt agggcacgag acgatgggcg tccagcgcgg 6240

ccagcgtcat gtccttccag ggtctcaggg tccgagtgag ggtggtctcc gtcacggtga 6300

aggggtgggc cccgggctgg gcgcttgcaa gggtgcgctt gagactcatc ctgctggtgc 6360

tgaaacgggc acggtcttcg ccctgcgcgt cggcgagata gcagttgacc atgagcttgt 6420

agttaagggc ctcggcggcg tggcccttgg cacggagctt gcctttggaa gagcgcccgc 6480

aggcgggaca gaggagggat tgcagggcgt agagcttggg tgcgagaaag acggactcgg 6540

gagcgaaggc gtccgctccg cagtgggcgc agacggtctc gcactcgacg agccaggtga 6600

gctcgggctg ctcggggtca aaaaccagtt ttcccccgtt ctttttgatg cgcttcttac 6660

ctcgcgtctc catgagtctg tgtccgcgtt cggtgacaaa caggctgtct gtgtccccgt 6720

agacggactt gattggcctg tcctgcaggg gcgtcccgcg gtcctcctcg tagagaaact 6780

cggaccactc tgagacaaag gcgcgcgtcc acgccaagac aaaggaggcc acgtgcgagg 6840

ggtagcggtc gttgtccacc agggggtcca ccttttccac cgtgtgcaga cacatgtccc 6900

cctcctccgc atccaagaag gtgattggct tgtaggtgta ggccacgtga ccgggggtcc 6960

ccgacggggg ggtataaaag ggggcgggtc tgtgctcgtc ctcactctct tccgcgtcgc 7020

tgtccacgag cgccagctgt tggggtaggt attccctctc gagagcgggc atgacctcgg 7080

cactcaggtt gtcagtttct agaaacgagg aggatttgat gttggcctgc cctgccgcaa 7140

tgctttttag gagactttca tccatctggt cagaaaagac tatttttta ttgtcaagct 7200

tggtggcaaa ggagccatag agggcgttgg agagaagctt ggcgatggat ctcatggtct 7260

gatttttgtc acggtcggcg cgctccttgg ccgcgatgtt gagctggaca tactcgcgcg 7320

cgacacactt ccattctggg aagacggtgg tgcgctcgtc gggcacgatc ctgacgcgcc 7380

agccgcgatt atgcagggtg accaggtcca cgctggtggc cacctcgccg cgcaggggct 7440

cgttggtcca gcagaggcgt ccgcccttgc gcgagcagaa cgggggcagc acatcaagca 7500

gatgctcgtc agggggggtcc gcatcgatgg tgaagatgcc cggacagagt tccttgtcaa 7560

aataatcgat ttttgaggat gcatcatcca aggccatctg ccactcgcgg gcggccagcg 7620

ctcgctcgta ggggttgagg ggcggacccc agggcatggg atgcgtgagg gcggaggcgt 7680

acatgccgca gatgtcgtag acatagatgg gctccgagag gatgccgatg taggtgggat 7740

aacagcgccc cccgcggatg ctggcgcgca catagtcata caactcgtgc gaggggggcca 7800

agaaagcggg gccgagattg gtgcgctggg gctgctcggc gcggaagacg atctggcgaa 7860

agatggcatg cgagttggag gagatggtgg gccgttggaa gatgttaaag tgggcgtggg 7920

gcaagcggac cgagtcgcgg atgaagtgcg cgtaggagtc ttgcagcttg gcaacgagct 7980

cggcggtgac aaggacgtcc atggcgcagt agtccagcgt ttcacggatg atgtcataac 8040

ccgcctcttc tttcttctcc cacagcgcgc ggttgagggc gtactcctcg tcatccttcc 8100

agtactcccg gagcgggaat cctcgatcgt ccgcacggta agagcccagc atgtagaaat 8160

ggttcacggc cttgtaggga cagcagccct tctccacggg gagggcgtaa gcttgagcgg 8220

ccttgcggag cgaggtgtgc gtcagggcga aggtatccct aaccatgact ttcaagaact 8280

ggtacttgaa atccgagtcg tcgcagccgc cgtgctccca gagctcgaaa tcggtgcgct 8340

tcttcgagag ggggttaggc agagcgaaag tgacgtcatt gaagagaatc ttgcctgccc 8400

gcggcatgaa attgcgggtg atgcggaaag ggcccggaac ggaggctcgg ttgttgatga 8460

cctgggcggc gaggacgatc tcgtcgaagc cgttgatgtt gtgcccgacg atgtagagtt 8520

ccatgaatcg cgggcggcct ttgatgtgcg gcagcttttt gagttcctcg taggtgaggt 8580

cctcggggca ttgcaggccg tgctgctcga gcgcccactc ctggagatgt gggttggctt 8640

gcatgaatga agcccagagc tcgcgggcca tgagggtctg gagctcgtcg cgaaagaggc 8700

ggaactgctg gcccacggcc atcttttctg gggtgacgca gtagaaggtg agggggtccc 8760

gctcccagcg atcccagcgt aagcgcacgg cgagatcgcg agcgagggcg accagctcgg 8820

ggtccccgga gaatttcatg accagcatga aggggacgag ctgcttgccg aaggacccca 8880

tccaggtgta ggtttctaca tcgtaggtga caaagagccg ctccgtgcga ggatgagagc 8940

cgattgggaa gaactggatt tcctgccacc agttggtcga gtggctgttg atgtgatgaa 9000

agtagaaatc ccgccggcga accgagcact cgtgctgatg cttgtaaaag cgtccgcagt 9060

actcgcagcg ctgcacgggc tgtacctcat ccacgagata cacagcgcgt cccttgagga 9120

ggaacttcag gagtggcggc cctggctggt ggttttcatg ttcgcctgcg tgggactcac 9180

cctggggctc ctcgaggacg gagaggctga cgagcccgcg cgggagccag gtccagattt 9240

cggcgcggcg ggggcggaga gcgaaaacga gggcgcgcag ttgggagctg tccatggtgt 9300

cgcggagatc caggtccggg ggcagggttc tgaggttgac ctcgtagagg cgggtgaggg 9360

cgtgcttgag atgcagatgg tacttgatct ccacgggtga gttggtggtc gtgtccacgc 9420

attgcatgag cccgtagctg cgcggggcca cgaccgtgcc gcggtgcgct tttagaagcg 9480

gtgtcgcgga cgcgctcccg gcggcagcgg cggttccggc cccgcgggca gtggcggtag 9540

aggcacgtcg gcgtggcgct cgggcaggtc ccggtgctgc gccctgagag cgctggcgtg 9600

cgcgacgacg cggcggttga catcctggat ctgccgcctt tgcgtgaaga ccacgggccc 9660

cgtgactttg aacctgaaag acagttcaac agaatcaatc tcggcgtcat tgacggcggc 9720

ctgacgcagg atctcttgca cgtcgcccga gttgtcctgg taggcgatct cggacatgaa 9780

ctgctcgatt tcctcctcct ggagatcgcc gcggcccgcg cgctctacgg tggcggcaag 9840

gtcattcgag atgcgaccca tgagctgcga gaaggcgccc aggccgctct cgttccagac 9900

gcggctgtaa accacgtccc cgtcggcgtc gcgcgcgcgc atgaccacct gcgcgaggtt 9960

gagctccacg tgccgcgtaa agacggcgta gttgcgcagg cgctggaaga ggtagttgag 10020

ggtggtggcg atgtgctcgg tgacgaagaa gtacataatc cagcggcgca ggggcatttc 10080

gctgatgtcg ccaatggcct ccagcctttc catggcctcg tagaaatcca cggcgaagtt 10140

gaaaaactgg gcgttgcggg ccgagaccgt gagctcgtct tccaggagcc tgatgagttc 10200

ggcgatggtg gcgcgcacct cgcgctcgaa atcccagggg gcctcctcct cttcctcttc 10260

ttccatgacg acctcttctt ctatttcttc ctctgggggc ggtggtggtg gcggggcccg 10320

acgacgacgg cgacgcaccg ggagacggtc gacgaagcgc tcgatcatct ccccgcggcg 10380

gcgacgcatg gtttcggtga cggcgcgacc ccgttcgcga ggacgcagcg tgaagacgcc 10440

gccggtcatc tcccggtaat ggggtgggtc cccgttgggc agcgataggg cgctgacaat 10500

gcatcttatc aattgcggtg tagggcacgt gagcgcgtcg agatcgaccg gatcggagaa 10560

tctttcgagg aaagcgtcta gccaatcgca gtcgcaaggt aagctcaaac acgtagcagc 10620

cctgtggacg ctgttagaat tgcggttgct gatgatgtaa ttgaagtagg cgtttttgag 10680

gcggcggatg gtggcgagga ggaccaggtc cttgggtccc gcttgctgga tgcggagccg 10740

ctcggccatg ccccaggcct ggccctgaca ccggctcagg ttcttgtagt agtcatgcat 10800

gagcctctcg atgtcatcac tggcggaggc ggagtcttcc atgcgggtga ccccgacgcc 10860

cctgaacggc tgcacgagcg ccaggtcggc gacgacgcgc tcggcgagga tggcctgttg 10920

cacgcgggtg agggtgtcct ggaagtcgtc catgtcgacg aagcggtggt aggcccctgt 10980

gttgatggtg taagtgcagt tggccataag cgaccagttg acggtctgca ggccgggttg 11040

cacgacctcg gagtacctga gccgcgagaa ggcgcgcgag tcgaagacat agtcgttgca 11100

ggtgcgcacg aggtactggt atccgactag aaagtgcggc ggcggctggc ggtagagcgg 11160

ccagcgctgg gtggccggcg cgcccggggc caggtcctca agcatgagtc ggtggtagcc 11220

gtagaggtag cgggacatcc aggtgatgcc ggcggcggtg gtggaggcgc gcgggaactc 11280

gcggacgcgg ttccagatgt tgcgcagggg caggaaatag tccatggtcg gcacggtctg 11340

gccggtgaga cgcgcgcagt cattgatgct ctagaggcaa aaacgaaagc ggttgagcgg 11400

gctcttcctc cgtagcctgg cggaacgcaa acgggttagg ccgcgtgtgt accccggttc 11460

gagtcccctc gaatcaggct ggagccgcga ctaacgtggt attggcactc ccgtctcgac 11520

ccaagcccga tagccgccag gatacggcgg agagcccttt ttgtcggccg aggggagtcg 11580

ctagacttga aagcggccga aaaccctgcc gggtagtggc tcgcgcccgt agtctggaga 11640

agcatcgcca gggttgagtc gcggcagaac ccggttcaag gacggccgcg gcgagcggga 11700

cttggtcacc ccgccgattt aaagacccac agccagccga cttctccagt tacgggagcg 11760

agccccctttt tttctttttg ccagatgcat cccgtcctgc gccaaatgcg tcccaccccc 11820

ccggcgacca ccgcgaccgc ggccgtagca ggcgccggcg ctagccagcc acagccacag 11880

acagagatgg acttggaaga gggcgaaggg ctggcgagac tgggggcgcc gtccccggag 11940

cgacatcccc gcgtgcagct gcagaaggac gtgcgcccgg cgtacgtgcc tgcgcagaac 12000

ctgttcaggg accgcagcgg ggaggagccc gaggagatgc gcgactgccg gtttcgggcg 12060

ggcagggagc tgcgcgaggg cctggaccgc cagcgcgtgc tgcgcgacga ggatttcgag 12120

ccgaacgagc agacggggat cagccccgcg cgcgcgcacg tggcggcggc caacctggtg 12180

acagcctacg agcagacggt gaagcaggaa cgcaactttc aaaagagttt caacaaccac 12240

gtgcgcaccc tgatcgcgcg cgaggaggtg gccctgggcc tgatgcacct gtgggacctg 12300

gcggaggcca ttgtgcagaa cccggacagc aagcctctga cggcacaact gttcctggtg 12360

gtgcagcaca gcagggacaa cgaggcgttc agggaggcgc tgctaaacat cgccgagccc 12420

gagggccgct ggctgctgga gctgatcaac atcttgcaaa gcatcgtagt gcaggagcgc 12480

agcctgagct tggccgagaa ggtggcggcg atcaactact cggtgctaag cctgggcaag 12540

ttttacgcgc gcaagattta caagacgccg tacgtgccca tagacaagga ggtgaaaata 12600

gacagctttt acatgcgcat ggcgctcaag gtgctgacgc tgagcgacga cctgggcgtg 12660

taccgcaacg accgcatcca caaggccgtg agcacgagcc ggcggcgcga gctgagcgac 12720

cgcgagctga tgctaagcct gcgccgggcg ctggtaggtg gcgccgccgg cggcgaggag 12780

tcctacttcg acatgggggc ggacctgcat tggcagccga gccggcgcgc cttggaggcc 12840

gcctacggtc cagaggactt ggatgaggat gaggaagagg aggaggatgc acccgttgcg 12900

gggtactgac gcctccgtga tgtgttttta gatgtcccag cagcaagccc cggaccccgc 12960

cataagggcg gcgctgcaaa gccagccgtc cggtctagca tcggacgact gggaggccgc 13020

gatgcaacgc atcatggccc tgacgacccg caaccccgag tcctttagac aacagccgca 13080

ggccaacaga ctttcgacca ttctggaggc ggtggtcccc tctcggacca accccacgca 13140

cgagaaggtg ctggcgatcg tgaacgcgct ggcggagaac aaggctattc gtcccgacga 13200

ggctgggctg gtatacaacg ccctgctgga gcgcgtgggc cgctacaaca gcacgaacgt 13260

gcagtccaac ctggaccggc tggtgacgga cgtgcgcgag gccgtggcgc agcgcgagcg 13320

gttcaagaac gagggcctgg gctcgctggt ggcgctgaac gccttcctgg cgacgcagcc 13380

ggcgaacgtg ccgcgcgggc aggacgatta taccaacttt atcagcgcgc tgcggctgat 13440

ggtgaccgag gttccccaga gcgaggtgta ccagtcgggc ccggactact ttttccagac 13500

tagcagacag ggcctgcaga cggtgaacct gagccaggct ttcaagaacc tgcgcgggct 13560

gtggggcgtg caggcgcccg tgggcgaccg gtcgacggtg agcagcttgc tgacgcccaa 13620

ctcgcggctg ctgctgctgc tgatcgcgcc cttcaccgac agcggcagcg tgaaccgcaa 13680

ctcgtacctg ggtcacctgc tgacgctgta ccgcgaggcc ataggccagg cacaggtgga 13740

cgagcagacc ttccaggaga tcactagtgt aagccgcgcg ctgggtcaga acgacaccga 13800

cagtctgagg gccaccctga acttcttgct gaccaataga cagcagaaga tcccggcgca 13860

gtatgcgctg tcggccgagg aggagcgcat cctgagatat gtgcagcaga gcgtagggct 13920

gtttctgatg caggaggggg ccacccccag cgccgcgctg gacatgaccg cgcgcaacat 13980

ggaacctagc atgtacgccg ccaaccggcc gtttatcaat aagctgatgg actacctgca 14040

ccgcgcggcg tccatgaact cggactactt taccaatgcc attttgaacc cgcactggct 14100

cccgccgccg gggttctaca cgggcgagta cgacatgcct gaccccaacg acgggttttt 14160

gtgggacgac gtggacagcg cggtgttctc accgaccttg caaaagcgcc aggaggcggt 14220

gcgcacgccc gcgagcgagg gcgcggtggg tcggagcccc tttcctagct tagggagttt 14280

gcatagcttg ccgggctcgg tgaacagcgg cagggtgagc cggccgcgct tgctgggcga 14340

ggacgagtac ctaaacgact cgctgctgca gccgccgcgg gtcaagaacg ccatggccaa 14400

taacgggata gagagtctgg tggacaaact gaaccgctgg aagacctacg ctcaggacca 14460

tagggagcct gcgcccgcgc cgcggcgaca gcgccacgac cggcagcggg gcctggtgtg 14520

ggacgacgag gactcggccg acgatagcag cgtgttggac ttgggcggga gcggtggggt 14580

caacccgttc gcgcatctgc agcccaaact ggggcgacgg atgttttgaa tgcaaaataa 14640

aactcaccaa ggccatagcg tgcgttctct tccttgttag agatgaggcg tgcggtggtg 14700

tcttcctctc ctcctccctc gtacgagagc gtgatggcgc aggcgaccct ggaggttccg 14760

tttgtgcctc cgcggtatat ggctcctacg gagggcagaa acagcattcg ttactcagag 14820

ctggctccgc tgtacgacac cactcgcgtg tacttggtgg acaacaagtc ggcggacatc 14880

gcttccctga actaccaaaa cgaccacagc aactttctga ccacggtggt gcaaaacaac 14940

gatttcaccc ccgccgaggc tagcacgcag acgataaatt ttgacgagcg gtcgcggtgg 15000

ggcggtgatc tgaagaccat tctgcacacc aacatgccca atgtgaacga gtacatgttt 15060

accagcaagt ttaaggcgcg ggtgatggtg gctaggaaac acccacaggg ggtagaagca 15120

acagatttaa gcaaggatat cttagagtac cagtggtttg agtttaccct gcccgagggc 15180

aacttttccg agaccatgac catagacctg atgaacaacg ccatcttgga aaactacttg 15240

caagtggggc ggcaaaatgg cgtgctggag agcgatatcg gagtcaagtt tgacagcagg 15300

aatttcaagc tgggctggga ccccgtgacc aagctggtga tgccaggggt ctacacctat 15360

gaggccttcc acccggacgt ggtgctgctg cctggctgcg gggtggactt caccgagagc 15420

cgcctaagca accttctggg cattcgcaag aagcaacctt tccaagaggg cttcagaatc 15480

atgtatgagg atctcgaagg gggcaacatt cccgcacttc tgaatgtgac caagtacctg 15540

gaaagcaaga agaagctaga ggagaatgcc gctaaggcta atggtcctgc aagaggagac 15600

agtagtgtct caagagaggt ggaaaaggca gctgaaaaag agcttgtcat tgagcccatc 15660

aagcaagatg atagcaagag aagttacaac ctcattgagg gtacccatga caccctgtac 15720

cgaagctggt acctgtccta tacctacggg gaccccgaga agggggtgca gtcgtggacg 15780

ctgctcacca ccccggacgg tcactgcggc gcggagcaag tctactggtc gctgccggac 15840

ctcatgcaag accccgtcac cttccgctct acccagcaag tcagcaacta ccccgtggtc 15900

ggcgccgagc tcatgccttt ccgcgccaag agcttttaca acgacctcgc cgtctactcc 15960

cagctcatcc gcagctacac ctccctcacc cacgtcttca accgcttccc cgacaaccag 16020

atcctctgcc gcccgcccgc gcccaccatc accaccgtca gtgaaaacgt gcctgctctc 16080

acagatcacg ggacgctacc gctgcgcagc agtatccgcg gagtccagcg agtgaccgtc 16140

actgacgccc gtcgccgcac ctgtccctac gtctacaagg ccctgggcat agtcgcgccg 16200

cgcgtgcttt ccagtcgcac cttctaaaaa atgtctattc tcatctcgcc cagcaataac 16260

accggctggg gtcttactag gcccagcacc atgtacggag gagccaagaa acgctcccag 16320

cagcaccccg tccgcgtccg cggccacttt cgcgctccct ggggcgcata caagcgcggg 16380

cggacttcca ccgccgccgc cgtgcgcacc accgtcgacg acgtcatcga ctcggtggtc 16440

gccgatgcgc gcaactatac ccccgccccc tccaccgtgg acgcggtcat tgacagcgtg 16500

gtggccgacg cgcgcgacta tgccagacgc aagagccggc ggcgacggat cgccaggcgc 16560

caccggagca cgcccgccat gcgcgccgcc cgggctctgc tgcgccgcgc cagacgcacg 16620

ggccgccggg ccatgatgcg agccgcgcgc cgcgctgcca ctgcacccac ccccgcaggc 16680

aggactcgca gacgagcggc cgctgccgcc gccgcggcca tctctagcat gaccagaccc 16740

aggcgcggaa acgtgtactg ggtgcgcgac tccgtcacgg gcgtgcgcgt gcccgtgcgc 16800

actcgtcctc ctcgtccctg atctaatgct tgtgtcctcc cccgcaagcg acgatgtcaa 16860

agcgcaaaat caaggaggag atgctccagg tcgtcgcccc ggagatttac ggacccccgg 16920

accagaaacc ccgcaaaatc aagcgggtta aaaaaaagga tgaggtggac gaggggcag 16980

tagagtttgt gcgcgagttc gctccgcggc ggcgcgtaaa ttggaagggg cgcagggtgc 17040

agcgtgtgtt gcggcccggc acggcggtgg tgttcacgcc cggcgagcgg tcctcggtca 17100

ggagcaagcg tagctatgac gaggtgtacg gcgacgacga catcctggac caggcggcgg 17160

agcgggcggg cgagttcgcc tacgggaagc ggtcgcgcga agaggagctg atctcgctgc 17220

cgctggacga aagcaacccc acgccgagcc tgaagcccgt gaccctgcag caggtgctgc 17280

cccaggcggt gctgctgccg agccgcgggg ttaagcgcga gggcgagagc atgtacccga 17340

ccatgcagat catggtgccc aagcgccggc gcgtggagga cgtgctggac accgtgaaaa 17400

tggatgtgga gcccgaggtc aaggtgcgcc ccatcaagca ggtggcgccg ggcctgggcg 17460

tgcaaaccgt ggacattcag atccccaccg acatggatgt cgacaaaaaa ccctcgacca 17520

gcatcgaggt gcaaaccgac ccctggctcc cagcctccac cgctaccgcc gccacggcca 17580

ccgagcctcc caggaggcga agatggggcc ctgccaaccg gctgatgccc aactacgtgt 17640

tgcatccttc catcatcccg acgccgggct accgcggcac ccggtactac gccagccgca 17700

ggcgcccagc cagtaaacgc cgccgccgca ccgccacccg ccgccgtctg gcccccgccc 17760

gcgtgcgccg cgtgaccacg cgccggggcc gctcgctcgt tctgcccacc gtgcgctacc 17820

accccagcat cctttaatcc gtgtgctgtg atactgttgc agagagatgg ctctcacttg 17880

ccgcctgcgc atccccgtcc cgaattaccg aggaagatcc cgccgcagga gaggcatggc 17940

aggcagtggc ctgaaccgcc gccggcggcg ggccatgcgc aggcgcctga gtggcggctt 18000

tctgcccgcg ctcatcccca taatcgccgc ggccatcggc acgatcccgg gcatagcttc 18060

cgttgcgctg caggcgtcgc agcgccgttg atgtgcgaat aaagcctctt tagactctga 18120

cacacctggt cctgtatatt tttagaatgg aagacatcaa ttttgcgtcc ctggctccgc 18180

ggcacggcac gcggccgttc atgggcacct ggaacgagat cggcaccagc cagctgaacg 18240

ggggcgcctt caattggagc agtgtctgga gcgggcttaa aaatttcggc tcgacgctcc 18300

ggacctatgg gaacaaggcc tggaatagta gcactgggca gttgttaagg gaaaagctca 18360

aagaccagaa cttccagcaa aaggtggtgg acgggctggc ctcgggcatt aacggggtgg 18420

tggacatcgc gaacccaggc cgtgcagcgc gagataaaca accgcctgga cccgcggccg 18480

cccacggtgg tggagatgga agatgcaact cctccgccgc ccaagggcga gaagcgaccg 18540

cggcccgacg cggaggagac gatcctgcag gtggacgagc cgccctcgta cgaggaggcc 18600

gtaaaggccg gcatgcccac cacgcgcatc atcgcgccac tggccacggg tgtaatgaaa 18660

cccgccaccc ttgacctgcc tccaccaccc acgcccgctc caccgaaggc agctccggta 18720

gtgcagcccc ctccggtggc gaccgccgtg cgccgcgtcc ccgcccgccg ccaggcccaa 18780

aactggcaaa gcacgctgca cagtattgtg ggcctgggag tgaaaagtct gaagcgccgc 18840

cgatgctatt gaaagagagg aaggaagaca ctaaagggag agcttaactt gtatgtgcct 18900

taccgccaga gaacgcgcga agatggccac cccctcgatg atgccgcagt gggcgtacat 18960

gcacatcgcc gggcaggacg cctcggagta cctgagcccg ggtctggtgc agtttgcccg 19020

cgccaccgac acgtacttca gcctgggcaa caagtttagg aaccccacgg tggccccaac 19080

ccacgatgtg accacggacc ggtcccagcg tctgacgctg cgcttcgtgc ccgtggatcg 19140

cgaggacacc acgtactcgt acaaggcgcg cttcactctg gccgtgggcg acaaccgggt 19200

gctagacatg gccagcactt actttgacat ccgcggcgtt ctggaccgcg gccccagctt 19260

caaaccctac tcgggcacgg cttacaacag cctggccccc aagggcgccc ccaattccag 19320

tcagtgggat gctcaagaaa aaaatggaca aggaggaaat gacatggtta ccaaaactca 19380

cacatttggc gtggctgcta tgggaggaac aaatattaca aaccagggtt tgttaattgg 19440

aactgaagaa acagccgata atcctccaaa ggaaatcttt gcagacaaat tattccagcc 19500

agaacctcaa gtaggagagg aaaactggca agacagcaat gcattctatg gaggcagggc 19560

tcttaagaag gaaactaaaa tgaaaccatg ctatggatct tatgctagac caacaaacac 19620

aagtggcgga caggctaagc ttaaaactgg tgacaatatc gatcctacca aggatttcga 19680

catagatctt gctttcttcg atactcctgg cggaaatcct ccagcaggtg gtagtggaac 19740

ggaagaatac aaagcagata ttgttatgta cactgaaaat gtcaaccttg aaacacctga 19800

cactcatgtg gtgtacaaac cagccaaaga ggatgaaagt tctcaggcca acttggttca 19860

gcagtccatg cccaacagac ccaactacat tggcttcaga gacaattttg tggggctcat 19920

gtattacaac agcactggca acatgggagt gctggctggt caggcctctc agttgaatgc 19980

tgtggtggac ttgcaagaca gaaacacaga gctgtcttac cagctcttgc tagattctct 20040

gggtgacaga accagatact ttagcatgtg gaactctgcg gtggacagct atgatccaga 20100

tgtcagaatc attgaaaatc acggtgtgga agatgagctt ccaaactatt gctttccatt 20160

ggatggctct ggtaccaatg ctgcctacca aggtgtaaag gttcaagatg gtgaagacgg 20220

ggataaagaa actgaatggg aaaaagatac caaagtcgca gatcgtaacc aactgtgcaa 20280

gggtaacatc ttcgccatgg agatcaacct ccaggccaac ctgtggaaga gttttctgta 20340

ctcgaacgtg gccctgtacc tgcccgactc ctacaagtac acgccggcca acatcacgct 20400

gcccgccaac accaacacct acgagtacat gaacggccgc gtggtagccc cctcgctggt 20460

ggacgcatac gtcaacatcg gtgcgcgctg gtcgctggac cccatggaca acgtcaaccc 20520

cttcaaccac caccgcaacg cgggcctgcg ctaccgctcc atgcttctcg gcaacggccg 20580

ctacgtgccc ttccacatcc aagtgcccca aaagttcttt gccattaaga acctgctcct 20640

gctccccggc tcctacacct acgagtggaa cttccgcaag gatgtcaaca tgatcctgca 20700

gagttccctc ggaaacgacc tgcgcgtcga cggcgcctcc gtgcgcttcg acagcgtcaa 20760

cctctacgct accttcttcc ccatggcgca caacaccgcc tccaccctgg aagccatgct 20820

gcgcaacgac accaacgacc agtcctttaa cgactacctc tcggccgcca acatgctcta 20880

ccccataccg gccaaggcca ccaacgtgcc catctccatc ccctcgcgca actgggctgc 20940

cttccgcggc tggagtttca cccggctcaa gaccaaggaa actccttccc ttggctcggg 21000

tttcgacccc tactttgtct actcgggctc catcccctac ctcgacggga ccttctacct 21060

caaccacacc ttcaaaaagg tgtccattat gttcgactcc tcggtcagct ggcccggcaa 21120

cgaccggctg ctcacgccga atgagttcga gatcaagcgc agcgtcgacg gggagggcta 21180

caacgtggcc caatgcaaca taaccaagga ctggttcctc gtccagatgc tctcccacta 21240

caacatcggc taccagggct tccacgtgcc cgagggctac aaggaccgca tgtactcctt 21300

tttccgcaac ttccagccca tgagcaggca ggtggtggat gagatcaact acaaggacta 21360

caaggccgtc accctgccct tccagcacaa caactctggc ttcaccggct acctcgcacc 21420

caccatgcgt caggggcagc cttaccccgc caacttccct tacccgctca tcggctccac 21480

cgcagtcccc tccgtcaccc agaaaaagtt cctctgcgac agggtcatgt ggcgcatccc 21540

cttctccagc aacttcatgt ccatgggtgc cctcaccgac ctgggtcaga acatgctcta 21600

tgccaactcg gcccacgcgc tcgacatgac cttcgaggtg gaccccatgg atgagcccac 21660

cctcctctat cttctcttcg aagttttcga cgtggtcaga gtgcaccagc cgcaccgcgg 21720

cgtcatcgag gccgtctacc tgcgcacacc cttctccgcc ggcaacgcca ccacctaagc 21780

atgagcggtt ccagcgaacg agaactcgcg gccatcgtgc gcgacctggg ctgcgggccc 21840

tacttttgg gcacccacga caagcgcttc ccgggcttcc tagccggcga caagctggcc 21900

tgcgccatcg tcaacacggc cggccgcgag accggaggcg tgcactggct cgccttcggc 21960

tggaacccgc gctcgcgcac ctgctacatg ttcgacccct ttgggttctc ggaccgccgg 22020

ctcaagcaga tttacagctt cgagtacgag gccatgctgc gccgaagcgc cctggcctcc 22080

tcgcccgacc gctgtctcag cctcgaacag tccacccaga ccgtgcaggg gcccgactcc 22140

gccgcctgcg gacttttttg ttgcatgttc ttgcatgcgt tcgtgcactg gcccgaccga 22200

cccatggacg gaaaccccac catgaacttg ctgacggggg tgcccaacgg catgctacaa 22260

tcgccacagg tgctgcccac cctccggcgc aaccaggagg agctctaccg cttcctcgcg 22320

cgccactccc cttacttccg atcccaccgc gccgccatcg aacacgccac cgcttttgac 22380

aaaatgaaac aactgcgtgt atctcaataa acagcacttt ttattttaca tgcactggag 22440

tatatgcaag ttatttaaaa gtcgaagggg ttctcgcgct cgtcgttgtg cgccgcgctg 22500

gggagggcca cgttgcggta ctggtacttg gaaagccact tgaactcggg gatcaccagt 22560

ttgggcactg gggtctcggg gaaggtctcg ctccacatgc gccggctcat ctgcagggcg 22620

cccagcatgt cagggccgga gatcttgaaa tcacagttgg ggccggtgct ctgcgcgcgc 22680

gagttgcggt acacggggtt gcagcactgg aacaccatca gactggggta cttcacactg 22740

gcaagcacgc tcttgtcgct aatctgatcc ttgtccaggt cctcggcgtt gctcaggccg 22800

aacggggtca tcttgcacag ctggcggccc aggaagggca cgctctgagg cttgtggtta 22860

cactcgcagt gcacgggcat cagcatcatc cccgcgccgc gctgcatatt cgggtagagg 22920

gccttgacga aggccgcgat ctgcttgaaa gcttgctggg ccttggcccc ctcgctgaag 22980

aacagaccgc agctcttccc gctgaactgg ttattcccgc acccggcatc atgcacgcag 23040

cagcgcgcgt catggctggt cagttgcacc acgctccgtc cccagcggtt ctgggtcacc 23100

ttagccttgc tgggctgctc cttcagcgcg cgctgtccgt tctcgctggt cacatccatc 23160

tccaccacgt ggtccttgtg aatcatcacc gttccatgca gacacttgag ctgaccttcc 23220

acctcggtgc agccgtgatc ccacaggacg cagccggtgc actcccaatt cttgtgcgcg 23280

atcccgctgt ggctgaaaat gtaaccttgc aacaggcgac ccataatggt gctaaatgat 23340

ttctgggtgg tgaatgtcag ttgcatcccg cgggcctcct cgttcatcca ggtctggcac 23400

atcttctgga agatctcggt ctgctccggc atgagcttgt aagcatcgcg caagccgctg 23460

tcgacgcggt agcgttccat cagcacgttc atggtatcca tgcccttctc ccatgacgag 23520

accagaggca gactcagggg gttgcgcacg ttcaggacac caggggtcgc gggctcgacg 23580

atgcgttttc cgtccttgcc ttccttcaac agaaccggag gctggctgaa tcccactccc 23640

acgatcacgg cgtcttcctg gggcatctct tcgtcggggt ctaccttggt cacatgcttg 23700

gtctttctgg cttgcttctt ttttggaggg ctgtccacgg ggaccacgtc ctcctcggaa 23760

gacccggagc ccacccgctg atactttcgg cgcttggtgg gcagaggagg tggcggcggc 23820

gaggggctcc tctcctgctc cggcggatag cgcgccgacc cgtggccccg gggcggagtg 23880

gcctctcgct ccatgaaccg gcgcacgtcc tgactgccgc cggccattgt ttcctagggg 23940

aagatggagg agcagccgcg taagcaggag caggaggagg acttaaccac ccacgagcaa 24000

cccaaaatcg agcaggacct gggcttcgaa gagccggctc gtctaaaacc cccacaggat 24060

gaacaggagc acgagcaaga cgcaggccag gaggagaccg acgctgggct cgagcatggc 24120

tacctgggag gagaggagga tgtgctgcta aaacacctgc agcgccagtc cctcatcctc 24180

cgggacgccc tggccgaccg gagcgaaacc cccctcagcg tcgaggagct gtgtcgggcc 24240

tacgagctca acctcttctc gccgcgcgtg ccccccaaac gccagcccaa cggcacctgc 24300

gagcccaacc cgcgtctcaa cttctatccc gtctttgcgg tccccgaggc ccttgccacc 24360

tatcacatct ttttcaagaa ccaaaagatc cccatctcct gtcgcgccaa tcgcactcgc 24420

gccgacgcgc tcctcgctct ggggcccggc gcgcgcatac ctgatatcgc ttccctggaa 24480

gaggtgccca agatcttcga agggctcggt cgggacgaga cgcgcgcggc aaacgctctg 24540

aaagaaacag cagaggaaga gggttacact agcgccctgg tagagttgga aggcgacaac 24600

gccaggctgg ccgtgcttaa gcgcagcgtc gagctcaccc atttcgccta ccccgccgtc 24660

aacctcccgc ccaaggtcat gcgtcgcatc atggatcagc tcatcatgcc ccacatcgag 24720

gcccttgatg aaagtcagga acagcgcccc gagaacgccc agcccgtggt cagcgacgag 24780

atgctcgcgc gctggctcgg gacccgcgac ccccaggccc tggagcagcg gcgcaagctc 24840

atgctggccg tggtcctggt cacccttgag ctcgaatgca tgcgccgctt ttttaccgac 24900

cccgagaccc tgcgcaaggt cgaggagacc ctgcactaca ctttcagaca cggtttcgtc 24960

aggcaggcct gcaagatctc caacgtggag ctgaccaacc tggtctcctg cctggggatc 25020

ctacacgaga accgcttggg acagaccgtg ctccactcta ccctgaaggg cgaggcgcgg 25080

cgggactaca tccgcgactg cgtctttctc tttctctgcc acacatggca agcggccatg 25140

ggcgtgtggc agcagtgtct cgaggacgag aacctgaagg agctggacaa gcttcttgct 25200

agaaacctta aaaagctgtg gacgggcttc gacgagcgca ccgtcgcctc ggacctggcc 25260

gagatcgtct tccccgagcg cctgaggcag acgctgaaag gagggctgcc cgacttcatg 25320

agccagagca tgttgcaaaa ctaccgcact ttcattctcg agcgatctgg gatgctgccc 25380

gccacctgca acgccttccc ctccgacttt gtcccgctga gctaccgcga gtgtcccccg 25440

ccgctgtgga gccactgcta cctcttgcag ctggccaact acattgccca ccactcggat 25500

gtgatcgagg acgtgagcgg cgaggggctg ctcgagtgcc actgtcgctg caacctatgc 25560

tccccgcacc gctccctggt ctgcaacccc cagctactga gcgagaccca ggtcatcggt 25620

acctttgagc tgcaaggtcc gcaggagtcc accgctccgc tgaaactcac gccggggttg 25680

tggacttccg cgtacctgcg caaatttgta cccgaggact actacgccca tgagataaag 25740

ttcttcgagg accaatcgcg tccgcagcac gcggatctca cggcctgcgt catcacccag 25800

ggcgcgatcc tcgcccaatt gcacgccatc caaaaatccc gccaagagtt tcttctgaaa 25860

aagggtagag gggtctacct ggacccccag acgggcgagg tgctcaaccc gggtctcccc 25920

cagcatgccg aggaagaagc aggagccgct agtggaggag atggaagaag aatgggacag 25980

ccaggcagag gaggacgaat gggaggagga gacagaggag gaagacttgg aagaggtgga 26040

agaggagcag gcaacagagc agcccgtcgc cgcaccatcc gcgccggcag cccctccggt 26100

cacggataca acctccgcag ctccggccaa gcctcctcgt agatgggatc gagtgaaggg 26160

tgacggtaag cacgagcgac agggctaccg atcatggagg gcccacaaag ccgcgatcat 26220

cgcctgcttg caagactgcg gggggaacat cgctttcgcc cgccgctacc tgctcttcca 26280

ccgcggggtg aacatccccc gcaacgtgtt gcattactac cgtcaccttc acagctaaga 26340

aaaagcaagt caaaggagtc gccggaggag gaggcctgag gatcgcggcg aacgagccct 26400

tgaccaccag ggagctgagg aaccggatct tccccactct ttatgccatt tttcagcaaa 26460

gtcgaggtca gcagcaagag ctcaaagtaa aaaaccggtc tctgcgctcg ctcacccgca 26520

gttgcttgta ccacaaaaac gaagatcagc tgcagcgcac tctcgaagac gccgaggctc 26580

tgttccacaa gtactgcgcg ctgactctta aagactaagg cgcgcccacc cggaaaaaag 26640

gcgggaatta cctcatcgcc accatgagca aggagattcc caccccttac atgtggagct 26700

atcagcccca gatgggcctg gccgcgggcg cctcccagga ctactccacc cgcatgaact 26760

ggcttagtgc cggcccctcg atgatctcac gggtcaacgg ggtccgtaac catcgaaacc 26820

agatattgtt gcagcaggcg gcggtcacct ccacgcccag ggcaaagctc aacccgcgta 26880

attggccctc caccctggtg tatcaggaaa tccccgggcc gactaccgta ctacttccgc 26940

gtgacgcact ggccgaagtc cgcatgacta actcaggtgt ccagctggcc ggcggcgctt 27000

cccggtgccc gctccgccca caatcgggta taaaaaccct ggtgatccga ggcagaggca 27060

cacagctcaa cgacgagttg gtgagctctt acaatcgtct gcgaccggac ggagtgttcc 27120

aactagccgg agccgggaga tcgtccttca ctcccaacca ggcctacctg accttgcaga 27180

gcagctcttc ggagcctcgc tcgggaggca tcggaaccca ccagttcgtg gaggagtttg 27240

tgccctcggt ctacttcaac cccttctcgg gctcgccagg cctctacccg gacgagttta 27300

taccgaactt cgacgcagtg agagaagcgg tggacggcta cgactgaagc ttgttgatta 27360

aaagcccaga aaccaatcag acccttcctc atttccccat cccaatactc ataagaataa 27420

atcattggaa ttaatcattc aataaagatc acttacttga aatctgaaag tatgtctctg 27480

gtgtagttgc tcagcaacac ctcggtaccc tcctcccagc tctggtactc cagtccccgg 27540

cgggcggcga acttcctcca caccttgaaa gggatgtcaa agaggctccg ggtggaagat 27600

gacttcaacc ccgtctaccc ctatggctac gcgcggaatc agaatatccc cttcctcact 27660

ccccccttg tctcctccga tggattcaaa aacttccccc ctggggtact gtcactcaaa 27720

ctggctgatc caatcaccat taccaatggg gatgtatccc tcaaggtggg aggtggtctc 27780

actttgcaag atggaagcct aactgtaaac cctaaggctc cactgcaagt taatactgat 27840

aaaaaacttg agcttgcata tgataatcca tttgaaagta gtgctaataa acttagttta 27900

aaagtaggac atggattaaa agtattagat gaaaaaagtg ctgcggggtt aaaagattta 27960

attggcaaac ttgtggtttt aacaggaaaa ggaataggca ctgaaaattt agaaaataca 28020

gatggtagca gcagaggaat tggtataaat gtaagagcaa gagaagggtt gacatttgac 28080

aatgatggat acttggtagc atggaaccca aagtatgaca cgcgcacact ttggacaaca 28140

ccagacacat ctccaaactg cacaattgct caagataagg actctaaact cactttggta 28200

cttacaaagt gtggaagtca aatattagct aatgtgtctt tgattgtggt cgcaggaaag 28260

taccacatca taaataataa gacaaatcca aaaataaaaa gttttactat taaactgcta 28320

tttaataaga acggagtgct tttagacaac tcaaatcttg gaaaagctta ttggaacttt 28380

agaagtggaa attccaatgt ttcgacagct tatgaaaaag caattggttt tatgcctaat 28440

ttggtagcgt atccaaaacc cagtaattct aaaaaatatg caagagacat agtttatgga 28500

actatatatc ttggtggaaa acctgatcag ccagcagtca ttaaaactac ctttaaccaa 28560

gaaactggat gtgaatactc tatcacattt aactttagtt ggtccaaaac ctatgaaaat 28620

gttgaatttg aaaccacctc ttttaccttc tcctatattg cccaagaatg aaagaccaat 28680

aaacgtgttt ttcatttgaa attttcatgt atctttattg atttttacac cagcacgagt 28740

agacagtctc ccaccaccag cccattttac agtgtacacg gttctctcag cacgggtagc 28800

cttaaatagg gaaatattct cattagtgcg ggaattggac ttggggtcta taatccacac 28860

agtttcctgg cgagccaaac gggggtcggt gattgaaata aagccgtcct ctgaaaagtc 28920

atccaagcgg gcctcacagt ccaaggtcac agtctggtgg aacgagaaga acgcacagat 28980

tcatactcgg aaaacaggat gggtctgtgc ctctccatca gcgccctcag cagtctctgc 29040

cgccggggct cggtgcggct gctgcaaatg ggatcgggat cacaagtctc tctgactatg 29100

atcccaacag ccttcagcat cagtctcctg gtgcgacggg cacagcaccg catcctgatc 29160

tctgccatgt tctcacagta agtgcagcac ataatcacca tgttattcag cagcccataa 29220

ttcagggcgc tccagccaaa gctcatgttg ggaatgatgg aacccacgtg accatcgtac 29280

cagatgcgac agtatatcag atgcctgccc ctcatgaaca cactgcccat gtacatgatc 29340

tctttgggca tgtttctgtt tacaatctgg cggtaccagg ggaagcgctg gttgaacatg 29400

cacccgtaaa tgactctcct gaaccacacg gccagcaggg tgcctcccgc ccgacactgc 29460

agggagccag gggatgaaca gtggcaatgc aggatccagc gctcgtaccc gctcaccatt 29520

tgagctctta ccaagtccag ggtagcgggg cacaggcaca ctgacataca tctttttaaa 29580

atttttattt cctctgtggt gaggatcata tcccagggga ctggaaactc ttggagcagg 29640

gtaaagccag cagcacatgg taatccacgg acagaactta cattatgata atctgcatga 29700

tcacaatcgg gcaacagggg atgttgttca gtcagtgaag ccctggtttc ctcatcagat 29760

cgtggtaaac gggccctgcg atatggatga tggcggagcg agctggattg aatctcggtt 29820

tgcattgtag tggattctct tgcgtacctt gtcgtacttc tgccagcaga aatgggccct 29880

tgaacagcat atacccctcc tacggccgtc ctttcgctgc tgccgctcag tcatccaact 29940

aaagtacatc cattctcgaa gattctggag aagttcctct gcatctgata aaataaaaaa 30000

cccgtccatg cgaattcccc tcatcacatc agccaggact ctgtaggcca tccccatcca 30060

gttaatgctg ccttgtctat cattcagagg gggcggtggc aggactggaa gaaccatttt 30120

tattccaaac ggtctcgaag gacgataaag tgcaagtcac gcaggtgaca gcgttcccct 30180

ccgctgtgct ggtggaaaca gacagccagg tcaaaaccca ctctattttc aaggtgctcg 30240

accgtggctt cgagcagtgg ctctacgcgc acatccagca taagaatcac attaaaggct 30300

ggccctccat cgatttcatc aatcatcagg ttacattcct gcaccatccc caggtaattc 30360

tcatttttcc agccttggat tatctctaca aattgttggt gtaagtccac tccgcacatg 30420

tggaaaagct cccacagtgc cccctccact ttcataatca ggcagacctt cataatagaa 30480

acagatcctg ctgctccacc acctgcagcg tgttcaaaac aacaagattc aataaggttc 30540

tgccctccgc cctgagctcg cgcctcaatg tcagctgcaa aaagtcactt aagtcctggg 30600

ccactacagc tgacaattca gagccagggc taagcgtggg actggcaagc gtaagggaaa 30660

actttaatgc tccaaagcta gcacccaaaa actgcatgct ggaataagct ctctttgtgt 30720

ctccggtgat gccttccaaa atgtgagtga taaagcgtgg tagtttttct ttaatcattt 30780

gcgtaataga aaagtcctct aaataagtca ctaggacccc agggaccaca atgtggtagc 30840

ttacaccgcg tcgctgaagc atggttagta gagatgagag tctgaaaaac agaaagcatg 30900

cactaaacta aggtggctat tttcactgaa ggaaaaatca ctctctccag cagcagggta 30960

cccactgggt ggcccttgcg gacatacaaa aatcggtccg tgtgattaaa aagcagcaca 31020

gtaagttcct gtcttcttcc ggcaaaaatc acatcagact gggttagtat gtccctggca 31080

tggtagtcat tcaaggccat aaatctgccc tgatatccag taggaaccag cacactcact 31140

tttaggtgaa gcaataccac cccatgcgga ggaatgtgga aagattcagg gcaaaaaaat 31200

tatatctatt gctagcccct tcctggacgg gagcaatccc tccaggacta tctataaaag 31260

catacagaga ttcagccata gcttagcccg cttaccagta gacagaaagc acagcagtac 31320

aagcgccaac agcagcaact gactacccac tgacccagct ccctatttaa aggcacctta 31380

cactgacgta atgaccaaag gtctaaaaac cccgccaaaa aaaacacaca cgccctgggt 31440

gtttttcaca aaaacacttc cgcgttctca cttcctcgta tcgattttgt gactcaactt 31500

ccgggttccc acgttacgtc acttctgccc ttacatgtaa cttggccgta tggcgccatc 31560

ttgcccacgt ccaaaatggc tttcatgacc ggccacgcct ccgcgccggc cgttagccgt 31620

gcgtcgtgac gttatttgca tcaccgcttc tcgtccaatc agcgttggct ccgccccaaa 31680

accgttaaaa ttcaaaagct catttgcata ttaacttttg tttactttgt ggggtatatt 31740

attagatagt taattaagga tgcatgttta aactcgacag cgacacactt gcatcggatg 31800

cagcccggtt aacgtgccgg cacggcctgg gtaaccaggt attttgtcca cataaccgtg 31860

cgcaaaatgt tgtggataag caggacacag cagcaatcca cagcaggcat acaaccgcac 31920

accgaggtta ctccgttcta caggttacga cgacatgtca atacttgccc ttgacaggca 31980

ttgatggaat cgtagtctca cgctgatagt ctgatcgaca atacaagtgg gaccgtggtc 32040

ccagaccgat aatcagaccg acaacacgag tgggatcgtg gtcccagact aataatcaga 32100

ccgacgatac gagtgggacc gtggtcccag actaataatc agaccgacga tacgagtggg 32160

accgtggttc cagactaata atcagaccga cgatacgagt gggaccgtgg tcccagacta 32220

ataatcagac cgacgatacg agtgggacca tggtcccaga ctaataatca gaccgacgat 32280

acgagtggga ccgtggtccc agtctgatta tcagaccgac gatacgagtg ggaccgtggt 32340

cccagactaa taatcagacc gacgatacga gtgggaccgt ggtcccagac taataatcag 32400

accgacgata cgagtgggac cgtggtccca gtctgattat cagaccgacg atacaagtgg 32460

aacagtgggc ccagagagaa tattcaggcc agttatgctt tctggcctgt aacaaaggac 32520

attaagtaaa gacagataaa cgtagactaa aacgtggtcg catcagggtg ctggcttttc 32580

aagttcctta agaatggcct caattttctc tatacactca gttggaacac gagacctgtc 32640

caggttaagc accattttat cgcccttata caatactgtc gctccaggag caaactgatg 32700

tcgtgagctt aaactagttc ttgatgcaga tgacgtttta agcacagaag ttaaaagagt 32760

gataacttct tcagcttcaa atatcacccc agctttttc tgctcatgaa ggttagatgc 32820

ctgctgctta agtaattcct ctttatctgt aaaggctttt tgaagtgcat cacctgaccg 32880

ggcagatagt tcaccggggt gagaaaaaag agcaacaact gatttaggca atttggcggt 32940

gttgatacag cgggtaataa tcttacgtga aatattttcc gcatcagcca gcgcagaaat 33000

atttccagca aattcattct gcaatcggct tgcataacgc tgaccacgtt cataagcact 33060

tgttgggcga taatcgttac ccaatctgga taatgcagcc atctgctcat catccagctc 33120

gccaaccaga acacgataat cactttcggt aagtgcagca gctttacgac ggcgactccc 33180

atcggcaatt tctatgacac cagatactct tcgaccgaac gccggtgtct gttgaccagt 33240

cagtagaaaa gaagggatga gatcatccag tgcgtcctca gtaagcagct cctggtcacg 33300

ttcattacct gaccataccc gagaggtctt ctcaacacta tcaccccgga gcacttcaag 33360

agtaaacttc acatcccgac cacatacagg caaagtaatg gcattaccgc gagccattac 33420

tcctacgcgc gcaattaacg aatccaccat cggggcagct ggtgtcgata acgaagtatc 33480

ttcaaccggt tgagtattga gcgtatgttt tggaataaca ggcgcacgct tcattatcta 33540

atctcccagc gtggtttaat cagacgatcg aaaatttcat tgcagacagg ttcccaaata 33600

gaaagagcat ttctccaggc accagttgaa gagcgttgat caatggcctg ttcaaaaaca 33660

gttctcatcc ggatctgacc tttaccaact tcatccgttt cacgtacaac atttttaga 33720

accatgcttc cccaggcatc ccgaatttgc tcctccatcc acggggactg agagccatta 33780

ctattgctgt atttggtaag caaaatacgt acatcaggct cgaacccttt aagatcaacg 33840

ttcttgagca gatcacgaag catatcgaaa aactgcagtg cggaggtgta gtcaaacaac 33900

tcagcaggcg tgggaacaat cagcacatca gcagcacata cgacattaat cgtgccgata 33960

cccaggttag gcgcgctgtc aataactatg acatcatagt catgagcaac agtttcaatg 34020

gccagtcgga gcatcaggtg tggatcggtg ggcagtttac cttcatcaaa tttgcccatt 34080

aactcagttt caatacggtg cagagccaga caggaaggaa taatgtcaag ccccggccag 34140

caagtgggct ttattgcata agtgacatcg tccttttccc caagatagaa aggcaggaga 34200

gtgtcttctg catgaatatg aagatctggt acccatccgt gatacattga ggctgttccc 34260

tgggggtcgt taccttccac gagcaaaaca cgtagcccct tcagagccag atcctgagca 34320
agatgaacag aaactgaggt tttgtaaacg ccacctttat gggcagcaac cccgatcacc 34380
ggtggaaata cgtcttcagc acgtcgcaat cgcgtaccaa acacatcacg catatgatta 34440
atttgttcaa ttgtataacc aacacgttgc tcaacccgtc ctcgaatttc catatccggg 34500
tgcggtagtc gccctgcttt ctcggcatct ctgatagcct gagaagaaac cccaactaaa 34560
tccgctgctt cacctattct ccagcgccgg gttattttcc tcgcttccgg gctgtcatca 34620
ttaaactgtg caatggcgat agccttcgtc atttcatgac cagcgtttat gcactggtta 34680
agtgtttcca tgagtttcat tctgaacatc ctttaatcat tgctttgcgt ttttttatta 34740
aatcttgcaa tttactgcaa agcaacaaca aaatcgcaaa gtcatcaaaa aaccgcaaag 34800
ttgtttaaaa taagagcaac actacaaaag gagataagaa gagcacatac ctcagtcact 34860
tattatcact agcgctcgcc gcagccgtgt aaccgagcat agcgagcgaa ctggcgagga 34920
agcaaagaag aactgttctg tcagatagct cttacgctca gcgcaagaag aaatatccac 34980
cgtgggaaaa actccaggta gaggtacaca cgcggatagc caattcagag taataaactg 35040
tgataatcaa ccctcatcaa tgatgacgaa ctaacccccg atatcaggtc acatgacgaa 35100
gggaaagaga aggaaatcaa ctgtgacaaa ctgccctcaa atttggcttc cttaaaaatt 35160
acagttcaaa aagtatgaga aaatccatgc aggctgaagg aaacagcaaa actgtgacaa 35220
attaccctca gtaggtcaga acaaatgtga cgaaccaccc tcaaatctgt gacagataac 35280
cctcagacta tcctgtcgtc atggaagtga tatcgcggaa ggaaaatacg atatgagtcg 35340
tctggcggcc tttctttttc tcaatgtatg agaggcgcat tggagttctg ctgttgatct 35400
cattaacaca gacctgcagg aagcggcggc ggaagtcagg catacgctgg taactttgag 35460
gcagctggta acgctctatg atccagtcga ttttcagaga gacgatgcct gagccatccg 35520
gcttacgata ctgacacagg gattcgtata aacgcatggc atacggattg gtgatttctt 35580
ttgtttcact aagccgaaac tgcgtaaacc ggttctgtaa cccgataaag aagggaatga 35640
gatatgggtt gatatgtaca ctgtaaagcc ctctggatgg actgtgcgca cgtttgataa 35700
accaaggaaa agattcatag ccttttttcat cgccggcatc ctcttcaggg cgataaaaaa 35760
ccacttcctt ccccgcgaaa ctcttcaatg cctgccgtat atccttactg gcttccgcag 35820
aggtcaatcc gaatatttca gcatatttag caacatggat ctcgcagata ccgtcatgtt 35880
cctgtagggt gccatcagat tttctgatct ggtcaacgaa cagatacagc atacgttttt 35940
gatcccggga gagactatat gccgcctcag tgaggtcgtt tgactggacg attcgcgggc 36000
tatttttacg tttcttgtga ttgataaccg ctgtttccgc catgacagat ccatgtgaag 36060

tgtgacaagt ttttagattg tcacactaaa taaaaaagag tcaataagca gggataactt 36120

tgtgaaaaaa cagcttcttc tgagggcaat ttgtcacagg gttaagggca atttgtcaca 36180

gacaggactg tcatttgagg gtgatttgtc acactgaaag ggcaatttgt cacaacacct 36240

tctctagaac cagcatggat aaaggcctac aaggcgctct aaaaaagaag atctaaaaac 36300

tataaaaaaa ataattataa aaatatcccc gtggataagt ggataacccc aagggaagtt 36360

ttttcaggca tcgtgtgtaa gcagaatata taagtgctgt tccctggtgc ttcctcgctc 36420

actcgagggc ttcgccgtcg ctcgactgcg gcgagcctac tggctgtaaa aggacagacc 36480

acatcatggt tctgtgttca ttaggttgtt ctgtccattg ctgacataat ccgctccact 36540

tcaacgtaac accgcacgaa gatttctatt gttcctgaag gcatattcaa atcgttttcg 36600

ttaccgcttg caggcatcat gacagaacac tacttcctat aaacgctaca caggctcctg 36660

agattaataa tgcggatctc tacgataatg ggagattttc ccgactgttt cgttcgcttc 36720

tcagtggata acagccagct tctctgttta acagacaaaa acagcatatc cactcagttc 36780

cacatttcca tataaaggcc aaggcattta ttctcaggat aattgtttca gcatcgcaac 36840

cgcatcagac tccggcatcg caaactgcac ccggtgccgg gcagccacat ccagcgcaaa 36900

aaccttcgtg tagacttccg ttgaactgat ggacttatgt cccatcaggc tttgcagaac 36960

tttcagcggt ataccggcat acagcatgtg catcgcatag gaatggcgga acgtatgtgg 37020

tgtgaccgga acagagaacg tcacaccgtc agcagcagcg gcggcaaccg cctccccaat 37080

ccaggtcctg accgttctgt ccgtcacttc ccagatccgc gctttctctg tccttcctgt 37140

gcgacggtta cgccgctcca tgagcttatc gcgaataaat acctgtgacg gaagatcact 37200

tcgcagaata aataaatcct ggtgtccctg ttgataccgg gaagccctgg gccaactttt 37260

ggcgaaaatg agacgttgat cggcacgtaa gaggttccaa ctttcaccat aatgaaataa 37320

gatcactacc gggcgtattt tttgagttat cgagattttc aggagctaag gaagctaaaa 37380

tggagaaaaa aatcactgga tataccaccg ttgatatatc ccaatggcat cgtaaagaac 37440

attttgaggc atttcagtca gttgctcaat gtacctataa ccagaccgtt cagctggata 37500

ttacggcctt tttaaagacc gtaaagaaaa ataagcacaa gttttatccg gcctttattc 37560

acattcttgc ccgcctgatg aatgctcatc cggaattccg tatggcaatg aaagacggtg 37620

agctggtgat atgggatagt gttcaccctt gttacaccgt tttccatgag caaactgaaa 37680

cgttttcatc gctctggagt gaataccacg acgatttccg gcagtttcta cacatatatt 37740

cgcaagatgt ggcgtgttac ggtgaaaacc tggcctattt ccctaaaggg tttattgaga 37800

atatgttttt cgtctcagcc aatccctggg tgagtttcac cagttttgat ttaaacgtgg 37860

ccaatatgga caacttcttc gcccccgttt tcaccatggg caaatattat acgcaaggcg 37920

acaaggtgct gatgccgctg gcgattcagg ttcatcatgc cgtctgtgat ggcttccatg 37980

tcggcagaat gcttaatgaa ttacaacagt actgcgatga gtggcagggc ggggcgtaat 38040

ttttttaagg cagttattgg tgcccttaaa cgcctggttg ctacgcctga ataagtgata 38100

ataagcggat gaatggcaga aattcgatga taagctgtca aacatgagaa tgggtcgag 38159

<210> 17
<211> 41523
<212> DNA
<213> artificial

<220>
<223> synthetic

<400> 17
gaagttccta ttccgaagtt cctattctct agaaagtata ggaacttcaa ttcccatgtc 60

agccgttaag tgttcctgtg tcactcaaaa ttgctttgag aggctctaag ggcttctcag 120

tgcgttacat ccctggcttg ttgtccacaa ccgttaaacc ttaaaagctt taaaagcctt 180

atatattctt ttttttctta taaaacttaa aaccttagag gctatttaag ttgctgattt 240

atattaattt tattgttcaa acatgagagc ttagtacgtg aaacatgaga gcttagtacg 300

ttagccatga gagcttagta cgttagccat gagggtttag ttcgttaaac atgagagctt 360

agtacgttaa acatgagagc ttagtacgtg aaacatgaga gcttagtacg tactatcaac 420

aggttgaact gctgatcttc agatcctcta cgccggacgc atcgtggccg gatccgattt 480

attcaacaaa gccacgttgt gtctcaaaat ctctgatgtt acattgcaca agataaaaat 540

atatcatcat gaacaataaa actgtctgct tacataaaca gtaatacaag gggtgttatg 600

agccatattc aacgggaaac gtcttgctcg aggccgcgat taaattccaa catggatgct 660

gatttatatg ggtataaatg ggctcgcgat aatgtcgggc aatcaggtgc gacaatctat 720

cgattgtatg ggaagcccga tgcgccagag ttgtttctga aacatggcaa aggtagcgtt 780

gccaatgatg ttacagatga gatggtcaga ctaaactggc tgacggaatt tatgcctctt 840

ccgaccatca agcattttat ccgtactcct gatgatgcat ggttactcac cactgcgatc 900

cccgggaaaa cagcattcca ggtattagaa gaatatcctg attcaggtga aaatattgtt 960

gatgcgctgg cagtgttcct gcgccggttg cattcgattc ctgtttgtaa ttgtcctttt 1020

aacagcgatc gcgtatttcg tctcgctcag gcgcaatcac gaatgaataa cggtttggtt 1080

gatgcgagtg attttgatga cgagcgtaat ggctggcctg ttgaacaagt ctggaaagaa 1140

atgcataagc ttttgccatt ctcaccggat tcagtcgtca ctcatggtga tttctcactt 1200

gataacctta tttttgacga ggggaaatta ataggttgta ttgatgttgg acgagtcgga 1260

atcgcagacc gataccagga tcttgccatc ctatggaact gcctcggtga gttttctcct 1320

tcattacaga aacggctttt tcaaaaatat ggtattgata atcctgatat gaataaattg 1380

cagtttcatt tgatgctcga tgagtttttc taatcagaat tggttaattg gttgtaacac 1440

tggcttaatt aactatctaa taatataccc cacaaagtaa acaaaagtta atatgcaaat 1500

gagcttttga attttaacgg ttttggggcg gagccaacgc tgattggacg agaagcggtg 1560

atgcaaataa cgtcacgacg cacggctaac ggccggcgcg gaggcgtggc ctaggccgga 1620

agcaagtcgc ggggctaatg acgtataaaa aagcggactt tagacccgga aacggccgat 1680

tttcccgcgg ccacgcccgg atatgaggta attctgggcg gatgcaagtg aaattaggtc 1740

attttggcgc caaaactgaa tgaggaagtg aaaagtgaaa aatacctgtc ccgcccaggg 1800

cggaatattt accgagggcc gagagacttt gaccgattac gtggggtttc gattgcggtg 1860

ttttttcgc gagaaggtaa actgcccact tggcagtaca tcaagtgtat catatgccaa 1920

gtacgccccc tattgacgtc aatgacggta aatggcccgc ctggcattat gcccagtaca 1980

tgaccttatg ggactttcct acttggcagt acatctacgt attagtcatc gctattacca 2040

tggtgatgcg gttttggcag tacatcaatg ggcgtggata gcggtttgac tcacggggat 2100

ttccaagtct ccaccccatt gacgtcaatg ggagtttgtt ttggcaccaa aatcaacggg 2160

actttccaaa atgtcgtaac aactccgccc cattgacgca aatgggcggt aggcgtgtac 2220

ggtgggaggt ctatataagc agagctggtt tagtgaaccg tcagatccgc tagcgctacc 2280

ggactcagat ctcgagctca agcttcgaat tctgcagtcg acggtaccgc gggcccggga 2340

tccaccggtc gccaccatgg tgagcaaggg cgaggagctg ttcaccgggg tggtgcccat 2400

cctggtcgag ctggacggcg acgtaaacgg ccacaagttc agcgtgtccg gcgagggcga 2460

gggcgatgcc acctacggca agctgaccct gaagttcatc tgcaccaccg gcaagctgcc 2520

cgtgccctgg cccaccctcg tgaccaccct gacctacggc gtgcagtgct tcagccgcta 2580

ccccgaccac atgaagcagc acgacttctt caagtccgcc atgcccgaag gctacgtcca 2640

ggagcgcacc atcttcttca aggacgacgg caactacaag acccgcgccg aggtgaagtt 2700

cgagggcgac accctggtga accgcatcga gctgaagggc atcgacttca aggaggacgg 2760

caacatcctg gggcacaagc tggagtacaa ctacaacagc cacaacgtct atatcatggc 2820

cgacaagcag aagaacggca tcaaggtgaa cttcaagatc cgccacaaca tcgaggacgg 2880

cagcgtgcag ctcgccgacc actaccagca gaacaccccc atcggcgacg gccccgtgct 2940

gctgcccgac aaccactacc tgagcaccca gtccgccctg agcaaagacc ccaacgagaa 3000

gcgcgatcac atggtcctgc tggagttcgt gaccgccgcc gggatcactc tcggcatgga 3060

cgagctgtac aagtaaagcg gccgcgactc tagatcataa tcagccatac cacatttgta 3120

gaggttttac ttgctttaaa aaacctccca cacctccccc tgaacctgaa acataaaatg 3180

aatgcaattg ttgttgttaa cttgtttatt gcagcttata atggttacaa ataaagcaat 3240

agcatcacaa atttcacaaa taaagcattt ttttcactgc attctagttg tggtttgtcc 3300

aaactcatca atgtatctta aatcgaattc aagcttgtcg actcgaagat ctgagctcac 3360

gcgtgaagtt cctattccga agttcctatt ctctagaaag tataggaact tcaattccca 3420

tgtcagccgt taagtgttcc tgtgtcactc aaaattgctt tgagaggctc taagggcttc 3480

tcagtgcgtt acatccctgg cttgttgtcc acaaccgtta aaccttaaaa gctttaaaag 3540

ccttatatat tctttttttt cttataaaac ttaaaacctt agaggctatt taagttgctg 3600

atttatatta attttattgt tcaaacatga gagcttagta cgtgaaacat gagagcttag 3660

tacgttagcc atgagagctt agtacgttag ccatgagggt ttagttcgtt aaacatgaga 3720

gcttagtacg ttaaacatga gagcttagta cgtgaaacat gagagcttag tacgtactat 3780

caacaggttg aactgctgat cttcagatcc tctacgccgg acgcatcgtg gccggatccg 3840

atttattcaa caaagccacg ttgtgtctca aaatctctga tgttacattg cacaagataa 3900

aaatatatca tcatgaacaa taaaactgtc tgcttacata aacagtaata caaggggtgt 3960

tatgagccat attcaacggg aaacgtcttg ctcgaggccg cgattaaatt ccaacatgga 4020

tgctgattta tatgggtata aatgggctcg cgataatgtc gggcaatcag gtgcgacaat 4080

ctatcgattg tatgggaagc ccgatgcgcc agagttgttt ctgaaacatg gcaaaggtag 4140

cgttgccaat gatgttacag atgagatggt cagactaaac tggctgacgg aatttatgcc 4200

tcttccgacc atcaagcatt ttatccgtac tcctgatgat gcatggttac tcaccactgc 4260

gatccccggg aaaacagcat tccaggtatt agaagaatat cctgattcag gtgaaaatat 4320

tgttgatgcg ctggcagtgt tcctgcgccg gttgcattcg attcctgttt gtaattgtcc 4380

ttttaacagc gatcgcgtat ttcgtctcgc tcaggcgcaa tcacgaatga ataacggttt 4440

ggttgatgcg agtgattttg atgacgagcg taatggctgg cctgttgaac aagtctggaa 4500

agaaatgcat aagcttttgc cattctcacc ggattcagtc gtcactcatg gtgatttctc 4560

acttgataac cttatttttg acgaggggaa attaataggt tgtattgatg ttggacgagt 4620

cggaatcgca gaccgatacc aggatcttgc catcctatgg aactgcctcg gtgagttttc 4680

tccttcatta cagaaacggc tttttcaaaa atatggtatt gataatcctg atatgaataa 4740

attgcagttt catttgatgc tcgatgagtt tttctaatca gaattggtta attggttgta 4800

acactggctt aattaactat ctaataatat accccacaaa gtaaacaaaa gttaatatgc 4860

aaatgagctt ttgaatttta acggttttgg ggcggagcca acgctgattg gacgagaagc 4920

ggtgatgcaa ataacgtcac gacgcacggc taacggccgg cgcggaggcg tggcctaggc 4980

cggaagcaag tcgcggggct aatgacgtat aaaaaagcgg actttagacc cggaaacggc 5040

cgattttccc gcggccacgc ccggatatga ggtaattctg ggcggatgca agtgaaatta 5100

ggtcattttg gcgccaaaac tgaatgagga agtgaaaagt gaaaaatacc tgtcccgccc 5160

agggcggaat atttaccgag ggccgagaga ctttgaccga ttacgtgggg tttcgattgc 5220

ggtgtttttt tcgcgagaag gtaaactgcc cacttggcag tacatcaagt gtatcatatg 5280

ccaagtacgc cccctattga cgtcaatgac ggtaaatggc ccgcctggca ttatgcccag 5340

tacatgacct tatgggactt tcctacttgg cagtacatct acgtattagt catcgctatt 5400

accatggtga tgcggttttg gcagtacatc aatgggcgtg gatagcggtt tgactcacgg 5460

ggatttccaa gtctccaccc cattgacgtc aatgggagtt tgttttggca ccaaaatcaa 5520

cgggactttc caaaatgtcg taacaactcc gccccattga cgcaaatggg cggtaggcgt 5580

gtacggtggg aggtctatat aagcagagct ggtttagtga accgtcagat ccgctagcgc 5640

taccggactc agatctcgag ctcaagcttc gaattctgca gtcgacggta ccgcgggccc 5700

gggatccacc ggtcgccacc atggtgagca agggcgagga gctgttcacc ggggtggtgc 5760

ccatcctggt cgagctggac ggcgacgtaa acggccacaa gttcagcgtg tccggcgagg 5820

gcgagggcga tgccacctac ggcaagctga ccctgaagtt catctgcacc accggcaagc 5880

tgcccgtgcc ctggcccacc ctcgtgacca ccctgaccta cggcgtgcag tgcttcagcc 5940

gctaccccga ccacatgaag cagcacgact tcttcaagtc cgccatgccc gaaggctacg 6000

tccaggagcg caccatcttc ttcaaggacg acggcaacta caagacccgc gccgaggtga 6060

agttcgaggg cgacaccctg gtgaaccgca tcgagctgaa gggcatcgac ttcaaggagg 6120

acggcaacat cctggggcac aagctggagt acaactacaa cagccacaac gtctatatca 6180

tggccgacaa gcagaagaac ggcatcaagg tgaacttcaa gatccgccac aacatcgagg 6240

acggcagcgt gcagctcgcc gaccactacc agcagaacac ccccatcggc gacggccccg 6300

tgctgctgcc cgacaaccac tacctgagca cccagtccgc cctgagcaaa gaccccaacg 6360

agaagcgcga tcacatggtc ctgctggagt tcgtgaccgc cgccgggatc actctcggca 6420

tggacgagct gtacaagtaa agcggccgcg actctagatc ataatcagcc ataccacatt 6480

tgtagaggtt ttacttgctt taaaaaacct cccacacctc cccctgaacc tgaaacataa 6540

aatgaatgca attgttgttg ttaacttgtt tattgcagct tataatggtt acaaataaag 6600

caatagcatc acaaatttca caaataaagc atttttttca ctgcattcta gttgtggttt 6660

gtccaaactc atcaatgtat cttaaatcga attcaagctt gtcgactcga agatctgagc 6720

tcacgcgtga agttcctatt ctctagaaag tataggaact tcgcgtaaat tgtaagcgtt 6780

aatattttgt taaaattcgc gttaaatttt tgttaaatca gctcattttt taaccaatag 6840

gccgaaatcg gcaaaatccc ttataaatca aaagaataga ccgagatagg gttgagtgtt 6900

gttccagttt ggaacaagag tccactatta aagaacgtgg actccaacgt caaagggcga 6960

aaaaccgtct atcagggcga tggcccacta cgtgaaccat caccctaatc aagtttttg 7020

gggtcgaggt gccgtaaagc actaaatcgg aaccctaaag ggagcccccg atttagagct 7080

tgacggggaa agccggcgaa cgtggcgaga aaggaaggga agaaagcgaa aggagcgggc 7140

gctagggcgc tggcaagtgt agcggtcacg ctgcgcgtaa ccaccacacc cgccgcgctt 7200

aatgcgccgc tacagggcgc gtcaggtggc acttttcggg gaaatgtgcg cggaacccct 7260

atttgtttat ttttctaaat acattcaaat atgtatccgc tcatgagaca ataaccctga 7320

taaatgcttc aataatattg aaaaaggaag agtcctgagg cggaaagaac cagctgtgga 7380

atgtgtgtca gttagggtgt ggaaagtccc caggctcccc agcaggcaga agtatgcaaa 7440

gcatgcatct caattagtca gcaaccaggt gtggaaagtc cccaggctcc ccagcaggca 7500

gaagtatgca aagcatgcat ctcaattagt cagcaaccat agtcccgccc ctaactccgc 7560

ccatcccgcc cctaactccg cccagttccg cccattctcc gccccatggc tgactaattt 7620

ttttattta tgcagaggcc gaggccgcct cggcctctga gctattccag aagtagtgag 7680

gaggcttttt tggaggggtg ggggtaccag gtaagtgtac ccaattcgcc ctatagtgag 7740

tcgtattaca attcactggc cgtcgtttta caacgtcgtg actgggaaaa ccctggcgtt 7800

acccaacgtg agaccagacc acctggtgat ggcctgtacc gggaccgagt tcagctccag 7860

tggggaggac acagattaga ggtaggtttg agtagtgggc gtggctaatg tgagtataaa 7920

ggcgggtgtc ttacgagggt ctttttgctt ttctgcagac atcatgaacg ggaccggcgg 7980

ggccttcgaa ggggggcttt ttagccctta tttgacaacc cgcctgccgg gatgggccgg 8040

agttcgtcag aatgtgatgg gatctacggt ggatgggcgt ccagtgcttc cagcaaattc 8100

ctcgaccatg acctacgcga ccgtggggag ctcgtcgctt gacagcaccg ccgcagccgc 8160

ggcagccgca gccgccatga cagcgacgag actggcctcg agctatatgc ccagcagcgg 8220

tagcagcccc tctgtgccca gttccatcat cgccgaggag aaactgctgg ccctgctggc 8280

cgagctggaa gccctgagcc gccagctggc cgccctgacc cagcaggtgt ccgatctccg 8340

cgagcaacag cagcagcaaa ataaatgaat tcaataaaca cagattctga ttcaaacagc 8400

aaagcatctt tattatttat tttttcgcgc gcggtaggcc ctggtccacc tctcccgatc 8460

attgagagtg cggtggattt tttccaggac ccggtagagg tgggattgga tgttgaggta 8520

catgggcatg agcccgtccc gggggtggag gtagcaccac tgcatggcct cgtgctctgg 8580

ggtcgtgttg tagataatcc agtcatagca ggggcgctgg gcgtggtgct ggatgatgtc 8640

cttgaggagg agactgatgg ccacggggag ccccttggtg taggtgttgg caaagcggtt 8700

aagctgggag ggatgcatgc gggggggagat gatgtgcagt ttggcctgga tcttgaggtt 8760

ggcgatgttg ccacccagat cccgccgggg gttcatattg tgcaggacca ccagaacggt 8820

gtagcccgtg cacttgggga acttatcatg caacttggaa gggaatgcgt ggaagaattt 8880

ggagacgccc ttgtgcccgc ccaggttttc catgcactca tccatgatga tggcaatggg 8940

cccgtgggct gcggctttgg caaaaacgtt tctggggtca gagacatcat aattatgctc 9000

ctgggtgaga tcatcataag acattttaat gaatttgggg cgaagggtgc cagattgggg 9060

gacgatcgtt ccctcgggcc ccggggcgaa gttcccctcg cagatctgca tctcccaggc 9120

tttcatctcg gaggggggga tcatgtccac ctgcggggcg atgaaaaaaa cggtttccgg 9180

ggcgggggtg atgagctgcg aggagagcag gtttcttaac agctgggact tgccgcaccc 9240

ggtcgggccg tagatgaccc cgatgacggg ttgcaggtgg tagttcaagg agatgcagct 9300

gccgtcgtcc cggaggaggg gggccacctc gttgagcatg tctctcactt ggaggttttc 9360

ccggacgagc tcgccgagga ggcggtcccc gcccagcgag agcagctctt gcagggaagc 9420

aaagtttttc aggggcttga gcccgtcggc catgggcatc ttggcaaggg tctgcgagag 9480

gagctccagg cggtcccata gctcggtgac gtgctctacg gcatctcgat ccagcagact 9540

tcctcgtttc gggggttggg acgactgcga ctgtagggca cgagacgatg ggcgtccagc 9600

gcggccagcg tcatgtcctt ccagggtctc agggtccgag tgagggtggt ctccgtcacg 9660

gtgaaggggt gggccccggg ctgggcgctt gcaagggtgc gcttgagact catcctgctg 9720

gtgctgaaac gggcacggtc ttcgccctgc gcgtcggcga gatagcagtt gaccatgagc 9780

ttgtagttaa gggcctcggc ggcgtggccc ttggcacgga gcttgccttt ggaagagcgc 9840

ccgcaggcgg gacagaggag ggattgcagg gcgtagagct tgggtgcgag aaagacggac 9900

tcgggagcga aggcgtccgc tccgcagtgg gcgcagacgg tctcgcactc gacgagccag 9960

gtgagctcgg gctgctcggg gtcaaaaacc agttttcccc cgttcttttt gatgcgcttc 10020

ttacctcgcg tctccatgag tctgtgtccg cgttcggtga caaacaggct gtctgtgtcc 10080

ccgtagacgg acttgattgg cctgtcctgc aggggcgtcc cgcggtcctc ctcgtagaga 10140

aactcggacc actctgagac aaaggcgcgc gtccacgcca agacaaagga ggccacgtgc 10200

gaggggtagc ggtcgttgtc caccaggggg tccacctttt ccaccgtgtg cagacacatg 10260

tccccctcct ccgcatccaa gaaggtgatt ggcttgtagg tgtaggccac gtgaccgggg 10320

gtccccgacg gggggggtata aaaggggggcg ggtctgtgct cgtcctcact ctcttccgcg 10380

tcgctgtcca cgagcgccag ctgttggggt aggtattccc tctcgagagc gggcatgacc 10440

tcggcactca ggttgtcagt ttctagaaac gaggaggatt tgatgttggc ctgccctgcc 10500

gcaatgcttt ttaggagact ttcatccatc tggtcagaaa agactatttt tttattgtca 10560

agcttggtgg caaaggagcc atagagggcg ttggagagaa gcttggcgat ggatctcatg 10620

gtctgatttt tgtcacggtc ggcgcgctcc ttggccgcga tgttgagctg gacatactcg 10680

cgcgcgacac acttccattc tgggaagacg gtggtgcgct cgtcgggcac gatcctgacg 10740

cgccagccgc gattatgcag ggtgaccagg tccacgctgg tggccacctc gccgcgcagg 10800

ggctcgttgg tccagcagag gcgtccgccc ttgcgcgagc agaacggggg cagcacatca 10860

agcagatgct cgtcaggggg gtccgcatcg atggtgaaga tgcccggaca gagttccttg 10920

tcaaaataat cgatttttga ggatgcatca tccaaggcca tctgccactc gcgggcggcc 10980

agcgctcgct cgtaggggtt gaggggcgga ccccagggca tgggatgcgt gagggcggag 11040

gcgtacatgc cgcagatgtc gtagacatag atgggctccg agaggatgcc gatgtaggtg 11100

ggataacagc gccccccgcg gatgctggcg cgcacatagt catacaactc gtgcgagggg 11160

gccaagaaag cggggccgag attggtgcgc tggggctgct cggcgcggaa gacgatctgg 11220

cgaaagatgg catgcgagtt ggaggagatg gtgggccgtt ggaagatgtt aaagtgggcg 11280

tggggcaagc ggaccgagtc gcggatgaag tgcgcgtagg agtcttgcag cttggcaacg 11340

agctcggcgg tgacaaggac gtccatggcg cagtagtcca gcgtttcacg gatgatgtca 11400

taacccgcct cttctttctt ctcccacagc gcgcggttga gggcgtactc ctcgtcatcc 11460

ttccagtact cccggagcgg gaatcctcga tcgtccgcac ggtaagagcc cagcatgtag 11520

aaatggttca cggccttgta gggacagcag cccttctcca cggggagggc gtaagcttga 11580

gcggccttgc ggagcgaggt gtgcgtcagg gcgaaggtat ccctaaccat gactttcaag 11640

aactggtact tgaaatccga gtcgtcgcag ccgccgtgct cccagagctc gaaatcggtg 11700

cgcttcttcg agaggggttt aggcagagcg aaagtgacgt cattgaagag aatcttgcct 11760

gcccgcggca tgaaattgcg ggtgatgcgg aaagggcccg gaacggaggc tcggttgttg 11820

atgacctggg cggcgaggac gatctcgtcg aagccgttga tgttgtgccc gacgatgtag 11880

agttccatga atcgcgggcg gcctttgatg tgcggcagct ttttgagttc ctcgtaggtg 11940

aggtcctcgg ggcattgcag gccgtgctgc tcgagcgccc actcctggag atgtgggttg 12000

gcttgcatga atgaagccca gagctcgcgg gccatgaggg tctggagctc gtcgcgaaag 12060

aggcggaact gctggcccac ggccatcttt tctggggtga cgcagtagaa ggtgaggggg 12120

tcccgctccc agcgatccca gcgtaagcgc acggcgagat cgcgagcgag ggcgaccagc 12180

tcggggtccc cggagaattt catgaccagc atgaagggga cgagctgctt gccgaaggac 12240

cccatccagg tgtaggtttc tacatcgtag gtgacaaaga gccgctccgt gcgaggatga 12300

gagccgattg ggaagaactg gatttcctgc caccagttgg tcgagtggct gttgatgtga 12360

tgaaagtaga aatcccgccg gcgaaccgag cactcgtgct gatgcttgta aaagcgtccg 12420

cagtactcgc agcgctgcac gggctgtacc tcatccacga gatacacagc gcgtcccttg 12480

aggaggaact tcaggagtgg cggccctggc tggtggtttt catgttcgcc tgcgtgggac 12540

tcaccctggg gctcctcgag gacggagagg ctgacgagcc cgcgcgggag ccaggtccag 12600

atttcggcgc ggcgggggcg gagagcgaaa acgagggcgc gcagttggga gctgtccatg 12660

gtgtcgcgga gatccaggtc cgggggcagg gttctgaggt tgacctcgta gaggcgggtg 12720

agggcgtgct tgagatgcag atggtacttg atctccacgg gtgagttggt ggtcgtgtcc 12780

acgcattgca tgagcccgta gctgcgcggg gccacgaccg tgccgcggtg cgcttttaga 12840

agcggtgtcg cggacgcgct cccggcggca gcggcggttc cggccccgcg ggcagtggcg 12900

gtagaggcac gtcggcgtgg cgctcgggca ggtcccggtg ctgcgccctg agagcgctgg 12960

cgtgcgcgac gacgcggcgg ttgacatcct ggatctgccg cctttgcgtg aagaccacgg 13020

gccccgtgac tttgaacctg aaagacagtt caacagaatc aatctcggcg tcattgacgg 13080

cggcctgacg caggatctct tgcacgtcgc ccgagttgtc ctggtaggcg atctcggaca 13140

tgaactgctc gatttcctcc tcctggagat cgccgcggcc cgcgcgctct acggtggcgg 13200

caaggtcatt cgagatgcga cccatgagct gcgagaaggc gcccaggccg ctctcgttcc 13260

agacgcggct gtaaaccacg tccccgtcgg cgtcgcgcgc gcgcatgacc acctgcgcga 13320

ggttgagctc cacgtgccgc gtaaagacgg cgtagttgcg caggcgctgg aagaggtagt 13380

tgagggtggt ggcgatgtgc tcggtgacga agaagtacat aatccagcgg cgcaggggca 13440

tttcgctgat gtcgccaatg gcctccagcc tttccatggc ctcgtagaaa tccacggcga 13500

agttgaaaaa ctgggcgttg cgggccgaga ccgtgagctc gtcttccagg agcctgatga 13560

gttcggcgat ggtggcgcgc acctcgcgct cgaaatccca gggggcctcc tcctcttcct 13620

cttcttccat gacgacctct tcttctattt cttcctctgg gggcggtggt ggtggcgggg 13680

cccgacgacg acggcgacgc accgggagac ggtcgacgaa gcgctcgatc atctccccgc 13740

ggcggcgacg catggtttcg gtgacggcgc gaccccgttc gcgaggacgc agcgtgaaga 13800

cgccgccggt catctcccgg taatggggtg ggtccccgtt gggcagcgat agggcgctga 13860

caatgcatct tatcaattgc ggtgtagggc acgtgagcgc gtcgagatcg accggatcgg 13920

agaatctttc gaggaaagcg tctagccaat cgcagtcgca aggtaagctc aaacacgtag 13980

cagccctgtg gacgctgtta gaattgcggt tgctgatgat gtaattgaag taggcgtttt 14040

tgaggcggcg gatggtggcg aggaggacca ggtccttggg tcccgcttgc tggatgcgga 14100

gccgctcggc catgccccag gcctggccct gacaccggct caggttcttg tagtagtcat 14160

gcatgagcct ctcgatgtca tcactggcgg aggcggagtc ttccatgcgg gtgaccccga 14220

cgcccctgaa cggctgcacg agcgccaggt cggcgacgac gcgctcggcg aggatggcct 14280

gttgcacgcg ggtgagggtg tcctggaagt cgtccatgtc gacgaagcgg tggtaggccc 14340

ctgtgttgat ggtgtaagtg cagttggcca taagcgacca gttgacggtc tgcaggccgg 14400

gttgcacgac ctcggagtac ctgagccgcg agaaggcgcg cgagtcgaag acatagtcgt 14460

tgcaggtgcg cacgaggtac tggtatccga ctagaaagtg cggcggcggc tggcggtaga 14520

gcggccagcg ctgggtggcc ggcgcgcccg gggccaggtc ctcaagcatg agtcggtggt 14580

agccgtagag gtagcgggac atccaggtga tgccggcggc ggtggtggag gcgcgcggga 14640

actcgcggac gcggttccag atgttgcgca ggggcaggaa atagtccatg gtcggcacgg 14700

tctggccggt gagacgcgcg cagtcattga tgctctagag gcaaaaacga aagcggttga 14760

gcgggctctt cctccgtagc ctggcggaac gcaaacgggt taggccgcgt gtgtaccccg 14820

gttcgagtcc cctcgaatca ggctggagcc gcgactaacg tggtattggc actcccgtct 14880

cgacccaagc ccgatagccg ccaggatacg gcggagagcc ctttttgtcg gccgagggga 14940

gtcgctagac ttgaaagcgg ccgaaaaccc tgccgggtag tggctcgcgc ccgtagtctg 15000

gagaagcatc gccagggttg agtcgcggca gaacccggtt caaggacggc cgcggcgagc 15060

gggacttggt caccccgccg atttaaagac ccacagccag ccgacttctc cagttacggg 15120

agcgagcccc ctttttttctt tttgccagat gcatcccgtc ctgcgccaaa tgcgtcccac 15180

ccccccggcg accaccgcga ccgcggccgt agcaggcgcc ggcgctagcc agccacagcc 15240

acagacagag atggacttgg aagagggcga agggctggcg agactggggg cgccgtcccc 15300

ggagcgacat ccccgcgtgc agctgcagaa ggacgtgcgc ccggcgtacg tgcctgcgca 15360

gaacctgttc agggaccgca gcggggagga gcccgaggag atgcgcgact gccggtttcg 15420

ggcgggcagg gagctgcgcg agggcctgga ccgccagcgc gtgctgcgcg acgaggattt 15480

cgagccgaac gagcagacgg ggatcagccc cgcgcgcgcg cacgtggcgg cggccaacct 15540

ggtgacagcc tacgagcaga cggtgaagca ggaacgcaac tttcaaaaga gtttcaacaa 15600

ccacgtgcgc accctgatcg cgcgcgagga ggtggccctg ggcctgatgc acctgtggga 15660

cctggcggag gccattgtgc agaacccgga cagcaagcct ctgacggcac aactgttcct 15720

ggtggtgcag cacagcaggg acaacgaggc gttcagggag gcgctgctaa acatcgccga 15780

gcccgagggc cgctggctgc tggagctgat caacatcttg caaagcatcg tagtgcagga 15840

gcgcagcctg agcttggccg agaaggtggc ggcgatcaac tactcggtgc taagcctggg 15900

caagttttac gcgcgcaaga tttacaagac gccgtacgtg cccatagaca aggaggtgaa 15960

aatagacagc ttttacatgc gcatggcgct caaggtgctg acgctgagcg acgacctggg 16020

cgtgtaccgc aacgaccgca tccacaaggc cgtgagcacg agccggcggc gcgagctgag 16080

cgaccgcgag ctgatgctaa gcctgcgccg ggcgctggta ggtggcgccg ccggcggcga 16140

ggagtcctac ttcgacatgg gggcggacct gcattggcag ccgagccggc gcgccttgga 16200

ggccgcctac ggtccagagg acttggatga ggatgaggaa gaggaggagg atgcacccgt 16260

tgcggggtac tgacgcctcc gtgatgtgtt tttagatgtc ccagcagcaa gccccggacc 16320

ccgccataag ggcggcgctg caaagccagc cgtccggtct agcatcggac gactgggagg 16380

ccgcgatgca acgcatcatg gccctgacga cccgcaaccc cgagtccttt agacaacagc 16440

cgcaggccaa cagactttcg accattctgg aggcggtggt cccctctcgg accaacccca 16500

cgcacgagaa ggtgctggcg atcgtgaacg cgctggcgga gaacaaggct attcgtcccg 16560

acgaggctgg gctggtatac aacgccctgc tggagcgcgt gggccgctac aacagcacga 16620

acgtgcagtc caacctggac cggctggtga cggacgtgcg cgaggccgtg gcgcagcgcg 16680

agcggttcaa gaacgagggc ctgggctcgc tggtggcgct gaacgccttc ctggcgacgc 16740

agccggcgaa cgtgccgcgc gggcaggacg attataccaa ctttatcagc gcgctgcggc 16800

tgatggtgac cgaggttccc cagagcgagg tgtaccagtc gggcccggac tacttttcc 16860

agactagcag acagggcctg cagacggtga acctgagcca ggctttcaag aacctgcgcg 16920

ggctgtgggg cgtgcaggcg cccgtgggcg accggtcgac ggtgagcagc ttgctgacgc 16980

ccaactcgcg gctgctgctg ctgctgatcg cgcccttcac cgacagcggc agcgtgaacc 17040

gcaactcgta cctgggtcac ctgctgacgc tgtaccgcga ggccataggc caggcacagg 17100

tggacgagca gaccttccag gagatcacta gtgtaagccg cgcgctgggt cagaacgaca 17160

ccgacagtct gagggccacc ctgaacttct tgctgaccaa tagacagcag aagatcccgg 17220

cgcagtatgc gctgtcggcc gaggaggagc gcatcctgag atatgtgcag cagagcgtag 17280

ggctgtttct gatgcaggag ggggccaccc ccagcgccgc gctggacatg accgcgcgca 17340

acatggaacc tagcatgtac gccgccaacc ggccgtttat caataagctg atggactacc 17400

tgcaccgcgc ggcgtccatg aactcggact actttaccaa tgccattttg aacccgcact 17460

ggctcccgcc gccggggttc tacacgggcg agtacgacat gcctgacccc aacgacgggt 17520

ttttgtggga cgacgtggac agcgcggtgt tctcaccgac cttgcaaaag cgccaggagg 17580

cggtgcgcac gcccgcgagc gagggcgcgg tgggtcggag ccccttttcct agcttaggga 17640

gtttgcatag cttgccgggc tcggtgaaca gcggcagggt gagccggccg cgcttgctgg 17700

gcgaggacga gtacctaaac gactcgctgc tgcagccgcc gcgggtcaag aacgccatgg 17760

ccaataacgg gatagagagt ctggtggaca aactgaaccg ctggaagacc tacgctcagg 17820

accataggga gcctgcgccc gcgccgcggc gacagcgcca cgaccggcag cggggcctgg 17880

tgtgggacga cgaggactcg gccgacgata gcagcgtgtt ggacttgggc gggagcggtg 17940

gggtcaaccc gttcgcgcat ctgcagccca aactggggcg acggatgttt tgaatgcaaa 18000

ataaaactca ccaaggccat agcgtgcgtt ctcttccttg ttagagatga ggcgtgcggt 18060

ggtgtcttcc tctcctcctc cctcgtacga gagcgtgatg gcgcaggcga ccctggaggt 18120

tccgtttgtg cctccgcggt atatggctcc tacggagggc agaaacagca ttcgttactc 18180

agagctggct ccgctgtacg acaccactcg cgtgtacttg gtggacaaca agtcggcgga 18240

catcgcttcc ctgaactacc aaaacgacca cagcaacttt ctgaccacgg tggtgcaaaa 18300

caacgatttc acccccgccg aggctagcac gcagacgata aattttgacg agcggtcgcg 18360

gtggggcggt gatctgaaga ccattctgca caccaacatg cccaatgtga acgagtacat 18420

gtttaccagc aagtttaagg cgcgggtgat ggtggctagg aaacacccac agggggtaga 18480

agcaacagat ttaagcaagg atatcttaga gtaccagtgg tttgagttta ccctgcccga 18540

gggcaacttt tccgagacca tgaccataga cctgatgaac aacgccatct tggaaaacta 18600

cttgcaagtg gggcggcaaa atggcgtgct ggagagcgat atcggagtca agtttgacag 18660

caggaatttc aagctgggct gggaccccgt gaccaagctg gtgatgccag gggtctacac 18720

ctatgaggcc ttccacccgg acgtggtgct gctgcctggc tgcggggtgg acttcaccga 18780

gagccgccta agcaaccttc tgggcattcg caagaagcaa cctttccaag agggcttcag 18840

aatcatgtat gaggatctcg aaggggggcaa cattcccgca cttctgaatg tgaccaagta 18900

cctggaaagc aagaagaagc tagaggagaa tgccgctaag gctaatggtc ctgcaagagg 18960

agacagtagt gtctcaagag aggtggaaaa ggcagctgaa aaagagcttg tcattgagcc 19020

catcaagcaa gatgatagca agagaagtta caacctcatt gagggtaccc atgacaccct 19080

gtaccgaagc tggtacctgt cctataccta cggggacccc gagaaggggg tgcagtcgtg 19140

gacgctgctc accaccccgg acggtcactg cggcgcggag caagtctact ggtcgctgcc 19200

ggacctcatg caagaccccg tcaccttccg ctctacccag caagtcagca actaccccgt 19260

ggtcggcgcc gagctcatgc ctttccgcgc caagagcttt tacaacgacc tcgccgtcta 19320

ctcccagctc atccgcagct acacctccct cacccacgtc ttcaaccgct tccccgacaa 19380

ccagatcctc tgccgcccgc ccgcgcccac catcaccacc gtcagtgaaa acgtgcctgc 19440

tctcacagat cacgggacgc taccgctgcg cagcagtatc cgcggagtcc agcgagtgac 19500

cgtcactgac gcccgtcgcc gcacctgtcc ctacgtctac aaggccctgg gcatagtcgc 19560

gccgcgcgtg ctttccagtc gcaccttcta aaaaatgtct attctcatct cgcccagcaa 19620

taacaccggc tggggtctta ctaggcccag caccatgtac ggaggagcca agaaacgctc 19680

ccagcagcac cccgtccgcg tccgcggcca ctttcgcgct ccctggggcg catacaagcg 19740

cgggcggact tccaccgccg ccgccgtgcg caccaccgtc gacgacgtca tcgactcggt 19800

ggtcgccgat gcgcgcaact atacccccgc cccctccacc gtggacgcgg tcattgacag 19860

cgtggtggcc gacgcgcgcg actatgccag acgcaagagc cggcggcgac ggatcgccag 19920

gcgccaccgg agcacgcccg ccatgcgcgc cgcccgggct ctgctgcgcc gcgccagacg 19980

cacgggccgc cgggccatga tgcgagccgc gcgccgcgct gccactgcac ccacccccgc 20040

aggcaggact cgcagacgag cggccgctgc cgccgccgcg gccatctcta gcatgaccag 20100

acccaggcgc ggaaacgtgt actgggtgcg cgactccgtc acgggcgtgc gcgtgcccgt 20160

gcgcactcgt cctcctcgtc cctgatctaa tgcttgtgtc ctccccgca agcgacgatg 20220

tcaaagcgca aaatcaagga ggagatgctc caggtcgtcg ccccggagat ttacggaccc 20280

ccggaccaga aaccccgcaa aatcaagcgg gttaaaaaaa aggatgaggt ggacgagggg 20340

gcagtagagt ttgtgcgcga gttcgctccg cggcggcgcg taaattggaa ggggcgcagg 20400

gtgcagcgtg tgttgcggcc cggcacggcg gtggtgttca cgcccggcga gcggtcctcg 20460

gtcaggagca agcgtagcta tgacgaggtg tacggcgacg acgacatcct ggaccaggcg 20520

gcggagcggg cgggcgagtt cgcctacggg aagcggtcgc gcgaagagga gctgatctcg 20580

ctgccgctgg acgaaagcaa ccccacgccg agcctgaagc ccgtgaccct gcagcaggtg 20640

ctgccccagg cggtgctgct gccgagccgc ggggttaagc gcgagggcga gagcatgtac 20700

ccgaccatgc agatcatggt gcccaagcgc cggcgcgtgg aggacgtgct ggacaccgtg 20760

aaaatggatg tggagcccga ggtcaaggtg cgccccatca agcaggtggc gccgggcctg 20820

ggcgtgcaaa ccgtggacat tcagatcccc accgacatgg atgtcgacaa aaaaccctcg 20880

accagcatcg aggtgcaaac cgacccctgg ctcccagcct ccaccgctac cgccgccacg 20940

gccaccgagc ctcccaggag gcgaagatgg ggccctgcca accggctgat gcccaactac 21000

gtgttgcatc cttccatcat cccgacgccg ggctaccgcg gcacccggta ctacgccagc 21060

cgcaggcgcc cagccagtaa acgccgccgc cgcaccgcca cccgccgccg tctggccccc 21120

gcccgcgtgc gccgcgtgac cacgcgccgg ggccgctcgc tcgttctgcc caccgtgcgc 21180

taccacccca gcatccttta atccgtgtgc tgtgatactg ttgcagagag atggctctca 21240

cttgccgcct gcgcatcccc gtcccgaatt accgaggaag atcccgccgc aggagaggca 21300

tggcaggcag tggcctgaac cgccgccggc ggcgggccat gcgcaggcgc ctgagtggcg 21360

gctttctgcc cgcgctcatc cccataatcg ccgcggccat cggcacgatc ccgggcatag 21420

cttccgttgc gctgcaggcg tcgcagcgcc gttgatgtgc gaataaagcc tctttagact 21480

ctgacacacc tggtcctgta tatttttaga atggaagaca tcaattttgc gtccctggct 21540

ccgcggcacg gcacgcggcc gttcatgggc acctggaacg agatcggcac cagccagctg 21600

aacgggggcg ccttcaattg gagcagtgtc tggagcgggc ttaaaaattt cggctcgacg 21660

ctccggacct atgggaacaa ggcctggaat agtagcactg ggcagttgtt aagggaaaag 21720

ctcaaagacc agaacttcca gcaaaaggtg gtggacgggc tggcctcggg cattaacggg 21780

gtggtggaca tcgcgaaccc aggccgtgca gcgcgagata aacaaccgcc tggacccgcg 21840

gccgcccacg gtggtggaga tggaagatgc aactcctccg ccgcccaagg gcgagaagcg 21900

accgcggccc gacgcggagg agacgatcct gcaggtggac gagccgccct cgtacgagga 21960

ggccgtaaag gccggcatgc ccaccacgcg catcatcgcg ccactggcca cgggtgtaat 22020

gaaacccgcc acccttgacc tgcctccacc acccacgccc gctccaccga aggcagctcc 22080

ggtagtgcag ccccctccgg tggcgaccgc cgtgcgccgc gtccccgccc gccgccaggc 22140

ccaaaactgg caaagcacgc tgcacagtat tgtgggcctg ggagtgaaaa gtctgaagcg 22200

ccgccgatgc tattgaaaga gaggaaggaa gacactaaag ggagagctta acttgtatgt 22260

gccttaccgc cagagaacgc gcgaagatgg ccacccccctc gatgatgccg cagtgggcgt 22320

acatgcacat cgccgggcag gacgcctcgg agtacctgag cccgggtctg gtgcagtttg 22380

cccgcgccac cgacacgtac ttcagcctgg gcaacaagtt taggaacccc acggtggccc 22440

caacccacga tgtgaccacg gaccggtccc agcgtctgac gctgcgcttc gtgcccgtgg 22500

atcgcgagga caccacgtac tcgtacaagg cgcgcttcac tctggccgtg ggcgacaacc 22560

gggtgctaga catggccagc acttactttg acatccgcgg cgttctggac cgcggcccca 22620

gcttcaaacc ctactcgggc acggcttaca acagcctggc ccccaagggc gcccccaatt 22680

ccagtcagtg ggatgctcaa gaaaaaaatg gacaaggagg aaatgacatg gttaccaaaa 22740

ctcacacatt tggcgtggct gctatgggag gaacaaatat tacaaaccag ggtttgttaa 22800

ttggaactga agaaacagcc gataatcctc caaaggaaat ctttgcagac aaattattcc 22860

agccagaacc tcaagtagga gaggaaaact ggcaagacag caatgcattc tatggaggca 22920

gggctcttaa gaaggaaact aaaatgaaac catgctatgg atcttatgct agaccaacaa 22980

acacaagtgg cggacaggct aagcttaaaa ctggtgacaa tatcgatcct accaaggatt 23040

tcgacataga tcttgctttc ttcgatactc ctggcggaaa tcctccagca ggtggtagtg 23100

gaacggaaga atacaaagca gatattgtta tgtacactga aaatgtcaac cttgaaacac 23160

ctgacactca tgtggtgtac aaaccagcca aagaggatga aagttctcag gccaacttgg 23220

ttcagcagtc catgcccaac agacccaact acattggctt cagagacaat tttgtggggc 23280

tcatgtatta caacagcact ggcaacatgg gagtgctggc tggtcaggcc tctcagttga 23340

atgctgtggt ggacttgcaa gacagaaaca cagagctgtc ttaccagctc ttgctagatt 23400

ctctgggtga cagaaccaga tactttagca tgtggaactc tgcggtggac agctatgatc 23460

cagatgtcag aatcattgaa aatcacggtg tggaagatga gcttccaaac tattgctttc 23520

cattggatgg ctctggtacc aatgctgcct accaaggtgt aaaggttcaa gatggtgaag 23580

acggggataa agaaactgaa tgggaaaaag ataccaaagt cgcagatcgt aaccaactgt 23640

gcaagggtaa catcttcgcc atggagatca acctccaggc caacctgtgg aagagttttc 23700

tgtactcgaa cgtggccctg tacctgcccg actcctacaa gtacacgccg gccaacatca 23760

cgctgcccgc caacaccaac acctacgagt acatgaacgg ccgcgtggta gccccctcgc 23820

tggtggacgc atacgtcaac atcggtgcgc gctggtcgct ggaccccatg gacaacgtca 23880

acccccttcaa ccaccaccgc aacgcgggcc tgcgctaccg ctccatgctt ctcggcaacg 23940

gccgctacgt gcccttccac atccaagtgc cccaaaagtt ctttgccatt aagaacctgc 24000

tcctgctccc cggctcctac acctacgagt ggaacttccg caaggatgtc aacatgatcc 24060

tgcagagttc cctcggaaac gacctgcgcg tcgacggcgc ctccgtgcgc ttcgacagcg 24120

tcaacctcta cgctaccttc ttccccatgg cgcacaacac cgcctccacc ctggaagcca 24180

tgctgcgcaa cgacaccaac gaccagtcct ttaacgacta cctctcggcc gccaacatgc 24240

tctaccccat accggccaag gccaccaacg tgcccatctc catcccctcg cgcaactggg 24300

ctgccttccg cggctggagt ttcacccggc tcaagaccaa ggaaactcct tcccttggct 24360

cgggtttcga cccctacttt gtctactcgg gctccatccc ctacctcgac gggaccttct 24420

acctcaacca caccttcaaa aaggtgtcca ttatgttcga ctcctcggtc agctggcccg 24480

gcaacgaccg gctgctcacg ccgaatgagt tcgagatcaa gcgcagcgtc gacggggagg 24540

gctacaacgt ggcccaatgc aacataacca aggactggtt cctcgtccag atgctctccc 24600

actacaacat cggctaccag ggcttccacg tgcccgaggg ctacaaggac cgcatgtact 24660

cctttttccg caacttccag cccatgagca ggcaggtggt ggatgagatc aactacaagg 24720

actacaaggc cgtcaccctg cccttccagc acaacaactc tggcttcacc ggctacctcg 24780

cacccaccat gcgtcagggg cagccttacc ccgccaactt cccttacccg ctcatcggct 24840

ccaccgcagt cccctccgtc acccagaaaa agttcctctg cgacagggtc atgtggcgca 24900

tcccccttctc cagcaacttc atgtccatgg gtgccctcac cgacctgggt cagaacatgc 24960

tctatgccaa ctcggcccac gcgctcgaca tgaccttcga ggtggacccc atggatgagc 25020

ccaccctcct ctatcttctc ttcgaagttt tcgacgtggt cagagtgcac cagccgcacc 25080

gcggcgtcat cgaggccgtc tacctgcgca cacccttctc cgccggcaac gccaccacct 25140

aagcatgagc ggttccagcg aacgagaact cgcggccatc gtgcgcgacc tgggctgcgg 25200

gccctacttt ttgggcaccc acgacaagcg cttcccgggc ttcctagccg gcgacaagct 25260

ggcctgcgcc atcgtcaaca cggccggccg cgagaccgga ggcgtgcact ggctcgcctt 25320

cggctggaac ccgcgctcgc gcacctgcta catgttcgac ccctttgggt tctcggaccg 25380

ccggctcaag cagatttaca gcttcgagta cgaggccatg ctgcgccgaa gcgccctggc 25440

ctcctcgccc gaccgctgtc tcagcctcga acagtccacc cagaccgtgc aggggcccga 25500

ctccgccgcc tgcggacttt tttgttgcat gttcttgcat gcgttcgtgc actggcccga 25560

ccgacccatg gacggaaacc ccaccatgaa cttgctgacg ggggtgccca acggcatgct 25620

acaatcgcca caggtgctgc ccaccctccg gcgcaaccag gaggagctct accgcttcct 25680

cgcgcgccac tccccttact tccgatccca ccgcgccgcc atcgaacacg ccaccgcttt 25740

tgacaaaatg aaacaactgc gtgtatctca ataaacagca ctttttattt tacatgcact 25800

ggagtatatg caagttattt aaaagtcgaa ggggttctcg cgctcgtcgt tgtgcgccgc 25860

gctggggagg gccacgttgc ggtactggta cttggaaagc cacttgaact cggggatcac 25920

cagtttgggc actggggtct cggggaaggt ctcgctccac atgcgccggc tcatctgcag 25980

ggcgcccagc atgtcagggc cggagatctt gaaatcacag ttggggccgg tgctctgcgc 26040

gcgcgagttg cggtacacgg ggttgcagca ctggaacacc atcagactgg ggtacttcac 26100

actggcaagc acgctcttgt cgctaatctg atccttgtcc aggtcctcgg cgttgctcag 26160

gccgaacggg gtcatcttgc acagctggcg gcccaggaag ggcacgctct gaggcttgtg 26220

gttacactcg cagtgcacgg gcatcagcat catccccgcg ccgcgctgca tattcgggta 26280

gagggccttg acgaaggccg cgatctgctt gaaagcttgc tgggccttgg ccccctcgct 26340

gaagaacaga ccgcagctct tcccgctgaa ctggttattc ccgcacccgg catcatgcac 26400

gcagcagcgc gcgtcatggc tggtcagttg caccacgctc cgtccccagc ggttctgggt 26460

caccttagcc ttgctgggct gctccttcag cgcgcgctgt ccgttctcgc tggtcacatc 26520

catctccacc acgtggtcct tgtgaatcat caccgttcca tgcagacact tgagctgacc 26580

ttccacctcg gtgcagccgt gatcccacag gacgcagccg gtgcactccc aattcttgtg 26640

cgcgatcccg ctgtggctga aaatgtaacc ttgcaacagg cgacccataa tggtgctaaa 26700

tgatttctgg gtggtgaatg tcagttgcat cccgcgggcc tcctcgttca tccaggtctg 26760

gcacatcttc tggaagatct cggtctgctc cggcatgagc ttgtaagcat cgcgcaagcc 26820

gctgtcgacg cggtagcgtt ccatcagcac gttcatggta tccatgccct tctcccatga 26880

cgagaccaga ggcagactca gggggttgcg cacgttcagg acaccagggg tcgcgggctc 26940

gacgatgcgt tttccgtcct tgccttcctt caacagaacc ggaggctggc tgaatcccac 27000

tcccacgatc acggcgtctt cctggggcat ctcttcgtcg gggtctacct tggtcacatg 27060

cttggtcttt ctggcttgct tctttttgg agggctgtcc acggggacca cgtcctcctc 27120

ggaagacccg gagcccaccc gctgatactt tcggcgcttg gtgggcagag gaggtggcgg 27180

cggcgagggg ctcctctcct gctccggcgg atagcgcgcc gacccgtggc cccggggcgg 27240

agtggcctct cgctccatga accggcgcac gtcctgactg ccgccggcca ttgtttccta 27300

ggggaagatg gaggagcagc cgcgtaagca ggagcaggag gaggacttaa ccacccacga 27360

gcaacccaaa atcgagcagg acctgggctt cgaagagccg gctcgtctaa aacccccaca 27420

ggatgaacag gagcacgagc aagacgcagg ccaggaggag accgacgctg ggctcgagca 27480

tggctacctg ggaggagagg aggatgtgct gctaaaacac ctgcagcgcc agtccctcat 27540

cctccgggac gccctggccg accggagcga aacccccctc agcgtcgagg agctgtgtcg 27600

ggcctacgag ctcaacctct tctcgccgcg cgtgcccccc aaacgccagc ccaacggcac 27660

ctgcgagccc aacccgcgtc tcaacttcta tcccgtcttt gcggtccccg aggcccttgc 27720

cacctatcac atctttttca agaaccaaaa gatccccatc tcctgtcgcg ccaatcgcac 27780

tcgcgccgac gcgctcctcg ctctggggcc cggcgcgcgc atacctgata tcgcttccct 27840

ggaagaggtg cccaagatct tcgaagggct cggtcgggac gagacgcgcg cggcaaacgc 27900

tctgaaagaa acagcagagg aagagggtta cactagcgcc ctggtagagt tggaaggcga 27960

caacgccagg ctggccgtgc ttaagcgcag cgtcgagctc acccatttcg cctaccccgc 28020

cgtcaacctc ccgcccaagg tcatgcgtcg catcatggat cagctcatca tgccccacat 28080

cgaggccctt gatgaaagtc aggaacagcg ccccgagaac gcccagcccg tggtcagcga 28140

cgagatgctc gcgcgctggc tcgggacccg cgacccccag gccctggagc agcggcgcaa 28200

gctcatgctg gccgtggtcc tggtcaccct tgagctcgaa tgcatgcgcc gctttttac 28260

cgaccccgag accctgcgca aggtcgagga gaccctgcac tacactttca gacacggttt 28320

cgtcaggcag gcctgcaaga tctccaacgt ggagctgacc aacctggtct cctgcctggg 28380

gatcctacac gagaaccgct tgggacagac cgtgctccac tctaccctga agggcgaggc 28440

gcggcgggac tacatccgcg actgcgtctt tctctttctc tgccacacat ggcaagcggc 28500

catgggcgtg tggcagcagt gtctcgagga cgagaacctg aaggagctgg acaagcttct 28560

tgctagaaac cttaaaaagc tgtggacggg cttcgacgag cgcaccgtcg cctcggacct 28620

ggccgagatc gtcttccccg agcgcctgag gcagacgctg aaaggagggc tgcccgactt 28680

catgagccag agcatgttgc aaaactaccg cactttcatt ctcgagcgat ctgggatgct 28740

gcccgccacc tgcaacgcct tcccctccga ctttgtcccg ctgagctacc gcgagtgtcc 28800

cccgccgctg tggagccact gctacctctt gcagctggcc aactacattg cccaccactc 28860

ggatgtgatc gaggacgtga gcggcgaggg gctgctcgag tgccactgtc gctgcaacct 28920

atgctccccg caccgctccc tggtctgcaa cccccagcta ctgagcgaga cccaggtcat 28980

cggtaccttt gagctgcaag gtccgcagga gtccaccgct ccgctgaaac tcacgccggg 29040

gttgtggact tccgcgtacc tgcgcaaatt tgtacccgag gactactacg cccatgagat 29100

aaagttcttc gaggaccaat cgcgtccgca gcacgcggat ctcacggcct gcgtcatcac 29160

ccagggcgcg atcctcgccc aattgcacgc catccaaaaa tcccgccaag agtttcttct 29220

gaaaaagggt agaggggtct acctggaccc ccagacgggc gaggtgctca acccgggtct 29280

cccccagcat gccgaggaag aagcaggagc cgctagtgga ggagatggaa gaagaatggg 29340

acagccaggc agaggaggac gaatgggagg aggagacaga ggaggaagac ttggaagagg 29400

tggaagagga gcaggcaaca gagcagcccg tcgccgcacc atccgcgccg gcagcccctc 29460

cggtcacgga tacaacctcc gcagctccgg ccaagcctcc tcgtagatgg gatcgagtga 29520

agggtgacgg taagcacgag cgacagggct accgatcatg gagggcccac aaagccgcga 29580

tcatcgcctg cttgcaagac tgcgggggga acatcgcttt cgcccgccgc tacctgctct 29640

tccaccgcgg ggtgaacatc ccccgcaacg tgttgcatta ctaccgtcac cttcacagct 29700

aagaaaaagc aagtcaaagg agtcgccgga ggaggaggcc tgaggatcgc ggcgaacgag 29760

cccttgacca ccagggagct gaggaaccgg atcttcccca ctctttatgc catttttcag 29820

caaagtcgag gtcagcagca agagctcaaa gtaaaaaacc ggtctctgcg ctcgctcacc 29880

cgcagttgct tgtaccacaa aaacgaagat cagctgcagc gcactctcga agacgccgag 29940

gctctgttcc acaagtactg cgcgctgact cttaaagact aaggcgcgcc cacccggaaa 30000

aaaggcggga attacctcat cgccaccatg agcaaggaga ttcccacccc ttacatgtgg 30060

agctatcagc cccagatggg cctggccgcg ggcgcctccc aggactactc cacccgcatg 30120

aactggctta gtgccggccc ctcgatgatc tcacgggtca acggggtccg taaccatcga 30180

aaccagatat tgttgcagca ggcggcggtc acctccacgc ccagggcaaa gctcaacccg 30240

cgtaattggc cctccaccct ggtgtatcag gaaatccccg ggccgactac cgtactactt 30300

ccgcgtgacg cactggccga agtccgcatg actaactcag gtgtccagct ggccggcggc 30360

gcttcccggt gcccgctccg cccacaatcg ggtataaaaa ccctggtgat ccgaggcaga 30420

ggcacacagc tcaacgacga gttggtgagc tcttacaatc gtctgcgacc ggacggagtg 30480

ttccaactag ccggagccgg gagatcgtcc ttcactccca accaggccta cctgaccttg 30540

cagagcagct cttcggagcc tcgctcggga ggcatcggaa cccaccagtt cgtggaggag 30600

tttgtgccct cggtctactt caaccccttc tcgggctcgc caggcctcta cccggacgag 30660

tttataccga acttcgacgc agtgagagaa gcggtggacg gctacgactg aagcttgttg 30720

attaaaagcc cagaaaccaa tcagaccctt cctcatttcc ccatcccaat actcataaga 30780

ataaatcatt ggaattaatc attcaataaa gatcacttac ttgaaatctg aaagtatgtc 30840

tctggtgtag ttgctcagca acacctcggt accctcctcc cagctctggt actccagtcc 30900

ccggcgggcg gcgaacttcc tccacacctt gaaagggatg tcaaagaggc tccgggtgga 30960

agatgacttc aaccccgtct acccctatgg ctacgcgcgg aatcagaata tccccttcct 31020

cactcccccc tttgtctcct ccgatggatt caaaaacttc ccccctgggg tactgtcact 31080

caaactggct gatccaatca ccattaccaa tggggatgta tccctcaagg tgggaggtgg 31140

tctcactttg caagatggaa gcctaactgt aaaccctaag gctccactgc aagttaatac 31200

tgataaaaaa cttgagcttg catatgataa tccatttgaa agtagtgcta ataaacttag 31260

tttaaaagta ggacatggat taaaagtatt agatgaaaaa agtgctgcgg ggttaaaaga 31320

tttaattggc aaacttgtgg ttttaacagg aaaaggaata ggcactgaaa atttagaaaa 31380

tacagatggt agcagcagag gaattggtat aaatgtaaga gcaagagaag ggttgacatt 31440

tgacaatgat ggatacttgg tagcatggaa cccaaagtat gacacgcgca cactttggac 31500

aacaccagac acatctccaa actgcacaat tgctcaagat aaggactcta aactcacttt 31560

ggtacttaca aagtgtggaa gtcaaatatt agctaatgtg tctttgattg tggtcgcagg 31620

aaagtaccac atcataaata ataagacaaa tccaaaaata aaaagtttta ctattaaact 31680

gctatttaat aagaacggag tgcttttaga caactcaaat cttggaaaag cttattggaa 31740

ctttagaagt ggaaattcca atgtttcgac agcttatgaa aaagcaattg gttttatgcc 31800

taatttggta gcgtatccaa aacccagtaa ttctaaaaaa tatgcaagag acatagttta 31860

tggaactata tatcttggtg gaaaacctga tcagccagca gtcattaaaa ctacctttaa 31920

ccaagaaact ggatgtgaat actctatcac atttaacttt agttggtcca aaacctatga 31980

aaatgttgaa tttgaaacca cctcttttac cttctcctat attgcccaag aatgaaagac 32040

caataaacgt gtttttcatt tgaaattttc atgtatcttt attgattttt acaccagcac 32100

gagtagacag tctcccacca ccagcccatt ttacagtgta cacggttctc tcagcacggg 32160

tagccttaaa tagggaaata ttctcattag tgcgggaatt ggacttgggg tctataatcc 32220

acacagtttc ctggcgagcc aaacgggggt cggtgattga aataaagccg tcctctgaaa 32280

agtcatccaa gcgggcctca cagtccaagg tcacagtctg gtggaacgag aagaacgcac 32340

agattcatac tcggaaaaca ggatgggtct gtgcctctcc atcagcgccc tcagcagtct 32400

ctgccgccgg ggctcggtgc ggctgctgca aatgggatcg ggatcacaag tctctctgac 32460

tatgatccca acagccttca gcatcagtct cctggtgcga cgggcacagc accgcatcct 32520

gatctctgcc atgttctcac agtaagtgca gcacataatc accatgttat tcagcagccc 32580

ataattcagg gcgctccagc caaagctcat gttgggaatg atggaaccca cgtgaccatc 32640

gtaccagatg cgacagtata tcagatgcct gcccctcatg aacacactgc ccatgtacat 32700

gatctctttg ggcatgtttc tgtttacaat ctggcggtac caggggaagc gctggttgaa 32760

catgcacccg taaatgactc tcctgaacca cacggccagc agggtgcctc ccgcccgaca 32820

ctgcagggag ccaggggatg aacagtggca atgcaggatc cagcgctcgt acccgctcac 32880

catttgagct cttaccaagt ccagggtagc ggggcacagg cacactgaca tacatctttt 32940

taaaattttt atttcctctg tggtgaggat catatcccag gggactggaa actcttggag 33000

cagggtaaag ccagcagcac atggtaatcc acggacagaa cttacattat gataatctgc 33060

atgatcacaa tcgggcaaca ggggatgttg ttcagtcagt gaagccctgg tttcctcatc 33120

agatcgtggt aaacgggccc tgcgatatgg atgatggcgg agcgagctgg attgaatctc 33180

ggtttgcatt gtagtggatt ctcttgcgta ccttgtcgta cttctgccag cagaaatggg 33240

cccttgaaca gcatataccc ctcctacggc cgtcctttcg ctgctgccgc tcagtcatcc 33300

aactaaagta catccattct cgaagattct ggagaagttc ctctgcatct gataaaataa 33360

aaaacccgtc catgcgaatt cccctcatca catcagccag gactctgtag gccatcccca 33420

tccagttaat gctgccttgt ctatcattca gaggggggcgg tggcaggact ggaagaacca 33480

tttttattcc aaacggtctc gaaggacgat aaagtgcaag tcacgcaggt gacagcgttc 33540

ccctccgctg tgctggtgga aacagacagc caggtcaaaa cccactctat tttcaaggtg 33600

ctcgaccgtg gcttcgagca gtggctctac gcgcacatcc agcataagaa tcacattaaa 33660

ggctggccct ccatcgattt catcaatcat caggttacat tcctgcacca tccccaggta 33720

attctcattt ttccagcctt ggattatctc tacaaattgt tggtgtaagt ccactccgca 33780

catgtggaaa agctcccaca gtgccccctc cactttcata atcaggcaga ccttcataat 33840

agaaacagat cctgctgctc caccacctgc agcgtgttca aaacaacaag attcaataag 33900

gttctgccct ccgccctgag ctcgcgcctc aatgtcagct gcaaaaagtc acttaagtcc 33960

tgggccacta cagctgacaa ttcagagcca gggctaagcg tgggactggc aagcgtaagg 34020

gaaaacttta atgctccaaa gctagcaccc aaaaactgca tgctggaata agctctcttt 34080

gtgtctccgg tgatgccttc caaaatgtga gtgataaagc gtggtagttt ttctttaatc 34140

atttgcgtaa tagaaaagtc ctctaaataa gtcactagga ccccagggac cacaatgtgg 34200

tagcttacac cgcgtcgctg aagcatggtt agtagagatg agagtctgaa aaacagaaag 34260

catgcactaa actaaggtgg ctattttcac tgaaggaaaa atcactctct ccagcagcag 34320

ggtacccact gggtggccct tgcggacata caaaaatcgg tccgtgtgat taaaaagcag 34380

cacagtaagt tcctgtcttc ttccggcaaa aatcacatca gactgggtta gtatgtccct 34440

ggcatggtag tcattcaagg ccataaatct gccctgatat ccagtaggaa ccagcacact 34500

cacttttagg tgaagcaata ccacccccatg cggaggaatg tggaaagatt cagggcaaaa 34560

aaattatatc tattgctagc cccttcctgg acgggagcaa tccctccagg actatctata 34620

aaagcataca gagattcagc catagcttag cccgcttacc agtagacaga aagcacagca 34680

gtacaagcgc caacagcagc aactgactac ccactgaccc agctccctat ttaaaggcac 34740

cttacactga cgtaatgacc aaaggtctaa aaaccccgcc aaaaaaaaca cacacgccct 34800

gggtgttttt cacaaaaaca cttccgcgtt ctcacttcct cgtatcgatt ttgtgactca 34860

acttccgggt tcccacgtta cgtcacttct gcccttacat gtaacttggc cgtatggcgc 34920

catcttgccc acgtccaaaa tggctttcat gaccggccac gcctccgcgc cggccgttag 34980

ccgtgcgtcg tgacgttatt tgcatcaccg cttctcgtcc aatcagcgtt ggctccgccc 35040

caaaaccgtt aaaattcaaa agctcatttg catattaact tttgtttact ttgtggggta 35100

tattattaga tagttaatta aggatgcatg tttaaactcg acagcgacac acttgcatcg 35160

gatgcagccc ggttaacgtg ccggcacggc ctgggtaacc aggtattttg tccacataac 35220

cgtgcgcaaa atgttgtgga taagcaggac acagcagcaa tccacagcag gcatacaacc 35280

gcacaccgag gttactccgt tctacaggtt acgacgacat gtcaatactt gcccttgaca 35340

ggcattgatg gaatcgtagt ctcacgctga tagtctgatc gacaatacaa gtgggaccgt 35400

ggtcccagac cgataatcag accgacaaca cgagtgggat cgtggtccca gactaataat 35460

cagaccgacg atacgagtgg gaccgtggtc ccagactaat aatcagaccg acgatacgag 35520

tgggaccgtg gttccagact aataatcaga ccgacgatac gagtgggacc gtggtcccag 35580

actaataatc agaccgacga tacgagtggg accatggtcc cagactaata atcagaccga 35640

cgatacgagt gggaccgtgg tcccagtctg attatcagac cgacgatacg agtgggaccg 35700

tggtcccaga ctaataatca gaccgacgat acgagtggga ccgtggtccc agactaataa 35760

tcagaccgac gatacgagtg ggaccgtggt cccagtctga ttatcagacc gacgatacaa 35820

gtggaacagt gggcccagag agaatattca ggccagttat gctttctggc ctgtaacaaa 35880

ggacattaag taaagacaga taaacgtaga ctaaaacgtg gtcgcatcag ggtgctggct 35940

tttcaagttc cttaagaatg gcctcaattt tctctataca ctcagttgga acacgagacc 36000

tgtccaggtt aagcaccatt ttatcgccct tatacaatac tgtcgctcca ggagcaaact 36060

gatgtcgtga gcttaaacta gttcttgatg cagatgacgt tttaagcaca gaagttaaaa 36120

gagtgataac ttcttcagct tcaaatatca ccccagcttt tttctgctca tgaaggttag 36180

atgcctgctg cttaagtaat tcctctttat ctgtaaaggc tttttgaagt gcatcacctg 36240

accgggcaga tagttcaccg gggtgagaaa aaagagcaac aactgattta ggcaatttgg 36300

cggtgttgat acagcgggta ataatcttac gtgaaatatt ttccgcatca gccagcgcag 36360

aaatatttcc agcaaattca ttctgcaatc ggcttgcata acgctgacca cgttcataag 36420

cacttgttgg gcgataatcg ttacccaatc tggataatgc agccatctgc tcatcatcca 36480

gctcgccaac cagaacacga taatcacttt cggtaagtgc agcagcttta cgacggcgac 36540

tcccatcggc aatttctatg acaccagata ctcttcgacc gaacgccggt gtctgttgac 36600

cagtcagtag aaaagaaggg atgagatcat ccagtgcgtc ctcagtaagc agctcctggt 36660

cacgttcatt acctgaccat acccgagagg tcttctcaac actatcaccc cggagcactt 36720

caagagtaaa cttcacatcc cgaccacata caggcaaagt aatggcatta ccgcgagcca 36780

ttactcctac gcgcgcaatt aacgaatcca ccatcggggc agctggtgtc gataacgaag 36840

tatcttcaac cggttgagta ttgagcgtat gttttggaat aacaggcgca cgcttcatta 36900

tctaatctcc cagcgtggtt taatcagacg atcgaaaatt tcattgcaga caggttccca 36960

aatagaaaga gcatttctcc aggcaccagt tgaagagcgt tgatcaatgg cctgttcaaa 37020

aacagttctc atccggatct gacctttacc aacttcatcc gtttcacgta caacattttt 37080

tagaaccatg cttccccagg catcccgaat ttgctcctcc atccacgggg actgagagcc 37140

attactattg ctgtatttgg taagcaaaat acgtacatca ggctcgaacc ctttaagatc 37200

aacgttcttg agcagatcac gaagcatatc gaaaaactgc agtgcggagg tgtagtcaaa 37260

caactcagca ggcgtgggaa caatcagcac atcagcagca catacgacat taatcgtgcc 37320

gatacccagg ttaggcgcgc tgtcaataac tatgacatca tagtcatgag caacagtttc 37380

aatggccagt cggagcatca ggtgtggatc ggtgggcagt ttaccttcat caaatttgcc 37440

cattaactca gtttcaatac ggtgcagagc cagacaggaa ggaataatgt caagccccgg 37500

ccagcaagtg ggctttattg cataagtgac atcgtccttt tccccaagat agaaaggcag 37560

gagagtgtct tctgcatgaa tatgaagatc tggtacccat ccgtgataca ttgaggctgt 37620

tccctggggg tcgttacctt ccacgagcaa aacacgtagc cccttcagag ccagatcctg 37680

agcaagatga acagaaactg aggttttgta aacgccacct ttatgggcag caaccccgat 37740

caccggtgga aatacgtctt cagcacgtcg caatcgcgta ccaaacacat cacgcatatg 37800

attaatttgt tcaattgtat aaccaacacg ttgctcaacc cgtcctcgaa tttccatatc 37860

cgggtgcggt agtcgccctg ctttctcggc atctctgata gcctgagaag aaaccccaac 37920

taaatccgct gcttcaccta ttctccagcg ccgggttatt ttcctcgctt ccgggctgtc 37980

atcattaaac tgtgcaatgg cgatagcctt cgtcatttca tgaccagcgt ttatgcactg 38040

gttaagtgtt tccatgagtt tcattctgaa catcctttaa tcattgcttt gcgttttttt 38100

attaaatctt gcaatttact gcaaagcaac aacaaaatcg caaagtcatc aaaaaaccgc 38160

aaagttgttt aaaataagag caacactaca aaaggagata agaagagcac atacctcagt 38220

cacttattat cactagcgct cgccgcagcc gtgtaaccga gcatagcgag cgaactggcg 38280

aggaagcaaa gaagaactgt tctgtcagat agctcttacg ctcagcgcaa gaagaaatat 38340

ccaccgtggg aaaaactcca ggtagaggta cacacgcgga tagccaattc agagtaataa 38400

actgtgataa tcaaccctca tcaatgatga cgaactaacc cccgatatca ggtcacatga 38460

cgaagggaaa gagaaggaaa tcaactgtga caaactgccc tcaaatttgg cttccttaaa 38520

aattacagtt caaaaagtat gagaaaatcc atgcaggctg aaggaaacag caaaactgtg 38580

acaaattacc ctcagtaggt cagaacaaat gtgacgaacc accctcaaat ctgtgacaga 38640

taaccctcag actatcctgt cgtcatggaa gtgatatcgc ggaaggaaaa tacgatatga 38700

gtcgtctggc ggcctttctt tttctcaatg tatgagaggc gcattggagt tctgctgttg 38760

atctcattaa cacagacctg caggaagcgg cggcggaagt caggcatacg ctggtaactt 38820

tgaggcagct ggtaacgctc tatgatccag tcgattttca gagagacgat gcctgagcca 38880

tccggcttac gatactgaca cagggattcg tataaacgca tggcatacgg attggtgatt 38940

tcttttgttt cactaagccg aaactgcgta aaccggttct gtaacccgat aaagaaggga 39000

atgagatatg ggttgatatg tacactgtaa agccctctgg atggactgtg cgcacgtttg 39060

ataaaccaag gaaaagattc atagcctttt tcatcgccgg catcctcttc agggcgataa 39120

aaaaccactt ccttccccgc gaaactcttc aatgcctgcc gtatatcctt actggcttcc 39180

gcagaggtca atccgaatat ttcagcatat ttagcaacat ggatctcgca gataccgtca 39240

tgttcctgta gggtgccatc agattttctg atctggtcaa cgaacagata cagcatacgt 39300

ttttgatccc gggagagact atatgccgcc tcagtgaggt cgtttgactg gacgattcgc 39360

gggctatttt tacgtttctt gtgattgata accgctgttt ccgccatgac agatccatgt 39420

gaagtgtgac aagtttttag attgtcacac taaataaaaa agagtcaata agcagggata 39480

actttgtgaa aaaacagctt cttctgaggg caatttgtca cagggttaag ggcaatttgt 39540

cacagacagg actgtcattt gagggtgatt tgtcacactg aaagggcaat ttgtcacaac 39600

accttctcta gaaccagcat ggataaaggc ctacaaggcg ctctaaaaaa gaagatctaa 39660

aaactataaa aaaaataatt ataaaaatat ccccgtggat aagtggataa ccccaaggga 39720

agtttttca ggcatcgtgt gtaagcagaa tatataagtg ctgttccctg gtgcttcctc 39780

gctcactcga gggcttcgcc gtcgctcgac tgcggcgagc ctactggctg taaaaggaca 39840

gaccacatca tggttctgtg ttcattaggt tgttctgtcc attgctgaca taatccgctc 39900

cacttcaacg taacaccgca cgaagatttc tattgttcct gaaggcatat tcaaatcgtt 39960

ttcgttaccg cttgcaggca tcatgacaga acactacttc ctataaacgc tacacaggct 40020

cctgagatta ataatgcgga tctctacgat aatgggagat tttcccgact gtttcgttcg 40080

cttctcagtg gataacagcc agcttctctg tttaacagac aaaaacagca tatccactca 40140

gttccacatt tccatataaa ggccaaggca tttattctca ggataattgt ttcagcatcg 40200

caaccgcatc agactccggc atcgcaaact gcacccggtg ccgggcagcc acatccagcg 40260

caaaaacctt cgtgtagact tccgttgaac tgatggactt atgtcccatc aggctttgca 40320

gaactttcag cggtataccg gcatacagca tgtgcatcgc ataggaatgg cggaacgtat 40380

gtggtgtgac cggaacagag aacgtcacac cgtcagcagc agcggcggca accgcctccc 40440

caatccaggt cctgaccgtt ctgtccgtca cttcccagat ccgcgctttc tctgtccttc 40500

ctgtgcgacg gttacgccgc tccatgagct tatcgcgaat aaatacctgt gacggaagat 40560

cacttcgcag aataaataaa tcctggtgtc cctgttgata ccgggaagcc ctgggccaac 40620

ttttggcgaa aatgagacgt tgatcggcac gtaagaggtt ccaactttca ccataatgaa 40680

ataagatcac taccgggcgt attttttgag ttatcgagat tttcaggagc taaggaagct 40740

aaaatggaga aaaaaatcac tggatatacc accgttgata tatcccaatg gcatcgtaaa 40800

gaacattttg aggcatttca gtcagttgct caatgtacct ataaccagac cgttcagctg 40860

gatattacgg ccttttaaa gaccgtaaag aaaaataagc acaagtttta tccggccttt 40920

attcacattc ttgcccgcct gatgaatgct catccggaat tccgtatggc aatgaaagac 40980

ggtgagctgg tgatatggga tagtgttcac ccttgttaca ccgttttcca tgagcaaact 41040

gaaacgtttt catcgctctg gagtgaatac cacgacgatt tccggcagtt tctacacata 41100

tattcgcaag atgtggcgtg ttacggtgaa aacctggcct atttccctaa agggtttatt 41160

gagaatatgt ttttcgtctc agccaatccc tgggtgagtt tcaccagttt tgatttaaac 41220

gtggccaata tggacaactt cttcgccccc gttttcacca tgggcaaata ttatacgcaa 41280

ggcgacaagg tgctgatgcc gctggcgatt caggttcatc atgccgtctg tgatggcttc 41340

catgtcggca gaatgcttaa tgaattacaa cagtactgcg atgagtggca gggcggggcg 41400

taatttttt aaggcagtta ttggtgccct taaacgcctg gttgctacgc ctgaataagt 41460

gataataagc ggatgaatgg cagaaattcg atgataagct gtcaaacatg agaatgggtc 41520

gag 41523