

## pTLJ03

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1  AGATCTCGAT CCCGCGAAAT TAATACGACT CACTATAGGG GAATTGTGAG
   TCTAGAGCTA GGGCGCTTTA ATTATGCTGA GTGATATCCC CTTAACACTC
.....
                                XbaI
51  CGGATAACAA TTCCCCTCTA GAAATAATTT TGTTTAACTT TAAGAAGGAG
   GCCTATTGTT AAGGGGAGAT CTTTATTAAA ACAAATTGAA ATTCTTCCTC
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101 ATATACATAT GTCCCCTATA CTAGGTTATT GGAAAATTAA GGCCTTGTG
   TATATGTATA CAGGGGATAT GATCCAATAA CCTTTTAATT CCCGGAACAC
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151 CAACCCACTC GACTTCTTTT GGAATATCTT GAAGAAAAAT ATGAAGAGCA
   GTTGGGTGAG CTGAAGAAAA CCTTATAGAA CTTCTTTTTA TACTTCTCGT
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201 TTTGTATGAG CGCGATGAAG GTGATAAATG GCGAAACAAA AAGTTTGAAT
   AAACATACTC GCGCTACTTC CACTATTTAC CGCTTTGTTT TTCAAACTTA
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251 TGGGTTTGGA GTTCCCAAT CTTCCTTATT ATATTGATGG TGATGTTAAA
   ACCCAAACCT CAAAGGGTTA GAAGGAATAA TATAACTACC ACTACAATTT
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301 TTAACACAGT CTATGGCCAT CATACTTAT ATAGCTGACA AGCACAACAT
   AATTGTGTCA GATACCGGTA GTATGCAATA TATCGACTGT TCGTGTTGTA
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351 GTTGGGTGGT TGTCCAAAAG AGCGTGCAGA GATTTCAATG CTTGAAGGAG
   CAACCCACCA ACAGGTTTTC TCGCACGTCT CTAAAGTTAC GAACTTCCTC
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401 CGGTTTTGGA TATTAGATAC GGTGTTTCGA GAATTGCATA TAGTAAAGAC
   GCCAAAACCT ATAATCTATG CCACAAAGCT CTTAACGTAT ATCATTTCTG
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451 TTTGAAACTC TCAAAGTTGA TTTTCTTAGC AAGCTACCTG AAATGCTGAA
   AACTTTTGAG AGTTTCAACT AAAAGAATCG TTCGATGGAC TTTACGACTT
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501 AATGTTTCGAA GATCGTTTAT GTCATAAAAC ATATTTAAAT GGTGATCATG
   TTACAAGCTT CTAGCAAATA CAGTATTTTG TATAAATTTA CCACTAGTAC
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551 TAACCCATCC TGACTTCATG TTGTATGACG CTCTTGATGT TGTTTTATAC
   ATTGGGTAGG ACTGAAGTAC AACATACTGC GAGAACTACA ACAAATATG
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601 ATGGACCCAA TGTGCCTGGA TGC GTTCCCA AAATTAGTTT GTTTTAAAAA
   TACCTGGGTT ACACGGACCT ACGCAAGGGT TTTAATCAA CAAAATTTTT
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651 ACGTATTGAA GCTATCCCAC AAATTGATAA GTACTTGAAA TCCAGCAAGT
   TGCATAACTT CGATAGGGTG TTTAACTATT CATGAAC TTT AGGTCGTTCA
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701 ATATAGCATG GCCTTTCAG GGCTGGCAAG CCACGTTTGG TGGTGGCGAC
   TATATCGTAC CGGAAACGTC CCGACCGTTC GGTGCAAACC ACCACCGCTG
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751 CATCCTCCAA AATCGGATCT GGTTCGCGT CCATGGTCGG ACGATGACGA
   GTAGGAGGTT TTAGCCTAGA CCAAGGCGCA GGTACCAGCC TGCTACTGCT
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801 TAAGGATCAT ATGTCGTA CT ACCATCACC TCACCATCAC TTGACTGTAT
   ATTCCTAGTA TACAGCATGA TGGTAGTGGT AGTGGTAGTG AACTGACATA
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                                EcoRI                                BamHI
851 CGCCGGAATT CGGGCCCGGA TCCCTGCAGC CAAGCTAATT CCGGCTTGAA
   GCGGCCTTAA GCCCGGGCCT AGGGACGTCG GTTCGATTAA GGCCGAACTT
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901 GACGAAAGGG CCTCGTGATA CGCCTATTTT TATAGGTTAA TGTCATGATA
   CTGCTTTCCC GGAGCACTAT GCGGATAAAA ATATCCAATT ACAGTACTAT
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951 ATAATGGTTT CTTAGACGTC AGGTGGCACT TTTCGGGGAA ATGTGCGCGG
   TATTACCAA GAATCTGCAG TCCACCGTGA AAAGCCCCTT TACACGCGCC
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1001 AACCCCTATT TGTTTATTTT TCTAAATACA TTCAAATATG TATCCGCTCA
TTGGGGATAA ACAAATAAAA AGATTTATGT AAGTTTATAC ATAGGCGAGT
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1051 TGAGACAATA ACCCTGATAA ATGCTTCAAT AATATTGAAA AAGGAAGAGT
ACTCTGTTAT TGGGACTATT TACGAAGTTA TTATAACTTT TTCCTTCTCA
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1101 ATGAGTATTC AACATTTCCG TGTCGCCCTT ATTCCCTTTT TTGCGGCATT
TACTCATAAG TTGTAAAGGC ACAGCGGGAA TAAGGGAAAA AACGCCGTAA
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1151 TTGCCTTCCT GTTTTTGCTC ACCCAGAAAC GCTGGTGAAA GTAAAAGATG
AACGGAAGGA CAAAACGAG TGGGTCTTTG CGACCACTTT CATTTTCTAC
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1201 CTGAAGATCA GTTGGGTGCA CGAGTGGGTT ACATCGAACT GGATCTCAAC
GACTTCTAGT CAACCCACGT GCTCACCCAA TGTAGCTTGA CCTAGAGTTG
=====
1251 AGCGGTAAGA TCCTTGAGAG TTTTCGCCCC GAAGAACGTT TTCCAATGAT
TCGCCATTCT AGGAACTCTC AAAAGCGGGG CTTCTTGCAA AAGGTTACTA
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1301 GAGCACTTTT AAAGTTCTGC TATGTGGCGC GGTATTATCC CGTGTTGACG
CTCGTGAAAA TTTCAAGACG ATACACCGCG CCATAATAGG GCACAACCTGC
=====
1351 CCGGGCAAGA GCAACTCGGT CGCCGCATAC ACTATTCTCA GAATGACTTG
GGCCCGTTCT CGTTGAGCCA GCGGCGTATG TGATAAGAGT CTTACTGAAC
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1401 GTTGAGTACT CACCAGTCAC AGAAAAGCAT CTTACGGATG GCATGACAGT
CAACTCATGA GTGGTCAGTG TCTTTTTCGTA GAATGCCTAC CGTACTGTCA
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1451 AAGAGAATTA TGCAGTGCTG CCATAACCAT GAGTGATAAC ACTGCGGCCA
TTCTCTTAAT ACGTCACGAC GGTATTGGTA CTCACTATTG TGACGCCGGT
=====
1501 ACTTACTTCT GACAACGATC GGAGGACCGA AGGAGCTAAC CGCTTTTTTTG
TGAATGAAGA CTGTTGCTAG CCTCCTGGCT TCCTCGATTG GCGAAAAAAC
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1551 CACAACATGG GGGATCATGT AACTCGCCTT GATCGTTGGG AACCGGAGCT
GTGTTGTACC CCCTAGTACA TTGAGCGGAA CTAGCAACCC TTGGCCTCGA
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1601 GAATGAAGCC ATACCAAACG ACGAGCGTGA CACCACGATG CCTGCAGCAA
CTTACTTCGG TATGGTTTGC TGCTCGCACT GTGGTGCTAC GGACGTCGTT
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1651 TGGCAACAAC GTTGCGCAAA CTATTAACTG GCGAACTACT TACTCTAGCT
ACCGTTGTTG CAACGCGTTT GATAATTGAC CGCTTGATGA ATGAGATCGA
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1701 TCCCGGCAAC AATTAATAGA CTGGATGGAG GCGGATAAAG TTGCAGGACC
AGGGCCGTTG TTAATTATCT GACCTACCTC CGCCTATTTT AACGTCCTGG
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1751 ACTTCTGCGC TCGGCCCTTC CGGCTGGCTG GTTTATTGCT GATAAATCTG
TGAAGACGCG AGCCGGGAAG GCCGACCGAC CAAATAACGA CTATTTAGAC
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1801 GAGCCGGTGA GCGTGGGTCT CGCGGTATCA TTGCAGCACT GGGGCCAGAT
CTCGGCCACT CGCACCCAGA GCGCCATAGT AACGTCGTGA CCCCAGTCTA
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1851 GGTAAGCCCT CCCGTATCGT AGTTATCTAC ACGACGGGGA GTCAGGCAAC
CCATTCGGGA GGCATAGCA TCAATAGATG TGCTGCCCTT CAGTCCGTTG
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1901 TATGGATGAA CGAAATAGAC AGATCGCTGA GATAGGTGCC TCACTGATTA
ATACCTACTT GCTTTATCTG TCTAGCGACT CTATCCACGG AGTGACTAAT
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1951 AGCATTGGTA ACTGTCAGAC CAAGTTTACT CATATATACT TTAGATTGAT
TCGTAACCAT TGACAGTCTG GTTCAAATGA GTATATATGA AATCTAACTA
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2001 TTAAACTTTC ATTTTAAATT TAAAAGGATC TAGGTGAAGA TCCTTTTTGA
AATTTTGAAG TAAAATTAA ATTTTCTAG ATCCACTTCT AGGAAAAACT
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2051 TAATCTCATG ACCAAAATCC CTTAACGTGA GTTTTTCGTTC CACTGAGCGT
ATTAGAGTAC TGGTTTTAGG GAATTGCACT CAAAAGCAAG GTGACTCGCA
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2101 CAGACCCCGT AGAAAAGATC AAAGGATCTT CTTGAGATCC TTTTTTTCTG
GTCTGGGGCA TCTTTTCTAG TTTCTAGAA GAACTCTAGG AAAAAAAGAC
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2151 CGCGTAATCT GCTGCTTGCA AACAAAAAAA CCACCGCTAC CAGCGGTGGT
GCGCATTAGA CGACGAACGT TTGTTTTTTT GTTGGCGATG GTCGCCACCA
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2201 TTGTTTGCCG GATCAAGAGC TACCAACTCT TTTTCCGAAG GTAACTGGCT
AACAAACGGC CTAGTTCTCG ATGGTTGAGA AAAAGGCTTC CATTGACCGA
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2251 TCAGCAGAGC GCAGATACCA AATACTGTCC TTCTAGTGTA GCCGTAGTTA
AGTCGTCTCG CGTCTATGGT TTATGACAGG AAGATCACAT CGGCATCAAT
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2301 GGCCACCACT TCAAGAACTC TGTAGCACCG CCTACATACC TCGCTCTGCT
CCGGTGGTGA AGTTCTTGAG ACATCGTGGC GGATGTATGG AGCGAGACGA
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2351 AATCCTGTTA CCAGTGGCTG CTGCCAGTGG CGATAAGTCG TGTCTTACCG
TTAGGACAAT GGTCACCGAC GACGGTCACC GCTATTCAGC ACAGAATGGC
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2401 GGTTGGACTC AAGACGATAG TTACCGGATA AGGCGCAGCG GTCGGGCTGA
CCAACCTGAG TTCTGCTATC AATGGCCTAT TCCGCGTCGC CAGCCCGACT
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2451 ACGGGGGGTT CGTGCACACA GCCCAGCTTG GAGCGAACGA CCTACACCGA
TGCCCCCAA GCACGTGTGT CGGGTCGAAC CTCGCTTGCT GGATGTGGCT
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2501 ACTGAGATAC CTACAGCGTG AGCTATGAGA AAGCGCCACG CTTCCCGAAG
TGACTCTATG GATGTGCGAC TCGATACTCT TTCGCGGTGC GAAGGGCTTC
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2551 GGAGAAAGGC GGACAGGTAT CCGGTAAGCG GCAGGGTCGG AACAGGAGAG
CCTCTTTCCG CCTGTCCATA GGCCATTCGC CGTCCAGCC TTGTCCTCTC
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2601 CGCACGAGGG AGCTTCCAGG GGGAAACGCC TGGTATCTTT ATAGTCCTGT
GCGTGCTCCC TCGAAGGTCC CCCTTTGCGG ACCATAGAAA TATCAGGACA
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2651 CGGGTTTCGC CACCTCTGAC TTGAGCGTCG ATTTTTGTGA TGCTCGTCAG
GCCCAAAGCG GTGGAGACTG AACTCGCAGC TAAAAACACT ACGAGCAGTC
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2701 GGGGGCGGAG CCTATGGAAA AACGCCAGCA ACGCGGCCTT TTTACGGTTC
CCCCGCCTC GGATACCTTT TTGCGGTCGT TGCGCCGAA AAATGCCAAG
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2751 CTGGCCTTTT GCTGGCCTTT TGCTCACATG TTCTTTCCTG CGTTATCCCC
GACCGGAAAA CGACCGGAAA ACGAGTGTAC AAGAAAGGAC GCAATAGGGG
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2801 TGATTCTGTG GATAACCGTA TTACCGCCTT TGAGTGAGCT GATAACCGCTC
ACTAAGACAC CTATTGGCAT AATGGCGGAA ACTCACTCGA CTATGGCGAG
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2851 GCCGCAGCCG AACGACCGAG CGCAGCGAGT CAGTGAGCGA GGAAGCGGAA
CGGCGTCGGC TTGCTGGCTC GCGTCGCTCA GTCACTCGCT CCTTCGCCTT
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2901 GAGCGCCTGA TCGGGTATTT TCTCCTTACG CATCTGTGCG GTATTTTACA
CTCGCGGACT ACGCCATAAA AGAGGAATGC GTAGACACGC CATAAAGTGT
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2951 CCGCATATAT GGTGCACTCT CAGTACAATC TGCTCTGATG CCGCATAGTT
GGCGTATATA CCACGTGAGA GTCATGTTAG ACGAGACTAC GGCATATCAA
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3001 AAGCCAGTAT ACACTCCGCT ATCGCTACGT GACTGGGTCA TGGCTGCGCC
TTCGGTCATA TGTGAGGCGA TAGCGATGCA CTGACCCAGT ACCGACGCGG
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3051 CCGACACCCG CCAACACCCG CTGACGCGCC CTGACGGGCT TGTCTGCTCC
GGCTGTGGGC GGTGTGGGC GACTGCGCGG GACTGCCCGA ACAGACGAGG
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3101 CGGCATCCGC TTACAGACAA GCTGTGACCG TCTCCGGGAG CTGCATGTGT
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3151 CAGAGGTTTT CACCGTCATC ACCGAAACGC GCGAGGCAGC TGCGGTAAAG
      GTCTCCAAA GTGGCAGTAG TGGCTTTGCG CGCTCCGTCG ACGCCATTTT
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3201 CTCATCAGCG TGGTCGTGAA GCGATTACACA GATGTCTGCC TGTTTCATCCG
      GAGTAGTCGC ACCAGCACTT CGCTAAGTGT CTACAGACGG ACAAGTAGGC
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3251 CGTCCAGCTC GTTGAGTTTC TCCAGAAGCG TTAATGTCTG GCTTCTGATA
      GCAGGTCGAG CAACTCAAAG AGGTCCTTCGC AATTACAGAC CGAAGACTAT
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3301 AAGCGGGCCA TGTTAAGGGC GGTTTTTTCC TGTTTGGTCA CTGATGCCTC
      TTCGCCCGGT ACAATTCCCG CCAAAAAGG ACAAACCAGT GACTACGGAG
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3351 CGTGTAAGGG GGATTTCTGT TCATGGGGGT AATGATACCG ATGAAACGAG
      GCACATTCCC CCTAAAGACA AGTACCCCA TTACTATGGC TACTTTGCTC
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3401 AGAGGATGCT CACGATACGG GTTACTGATG ATGAACATGC CCGGTTACTG
      TCTCCTACGA GTGCTATGCC CAATGACTAC TACTTGTACG GGCCAATGAC
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3451 GAACGTTGTG AGGGTAAACA ACTGGCGGTA TGGATGCGGC GGGACCAGAG
      CTTGCAACAC TCCATTTGT TGACCGCCAT ACCTACGCCG CCCTGGTCTC
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3501 AAAAATCACT CAGGGTCAAT GCCAGCGCTT CGTTAATACA GATGTAGGTG
      TTTTTAGTGA GTCCAGTTA CGGTCGCGAA GCAATTATGT CTACATCCAC
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3551 TTCCACAGGG TAGCCAGCAG CATCCTGCGA TGCAGATCCG GAACATAATG
      AAGGTGTCCC ATCGGTCGTC GTAGGACGCT ACGTCTAGGC CTTGTATTAC
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3601 GTGCAGGGCG CTGACTTCCG CGTTTCCAGA CTTTACGAAA CACGGAAACC
      CACGTCCCGC GACTGAAGGC GCAAAGGTCT GAAATGCTTT GTGCCTTTGG
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3651 GAAGACCATT CATGTTGTTG CTCAGGTCGC AGACGTTTTG CAGCAGCAGT
      CTTCTGGTAA GTACAACAAC GAGTCCAGCG TCTGCAAAAC GTCGTCGTCA
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3701 CGCTTCACGT TCGCTCGCGT ATCGGTGATT CATTCTGCTA ACCAGTAAGG
      GCGAAGTGCA AGCGAGCGCA TAGCCACTAA GTAAGACGAT TGGTCATTCC
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3751 CAACCCCGCC AGCCTAGCCG GGTCTCAAC GACAGGAGCA CGATCATGCG
      GTTGGGGCGG TCGGATCGGC CCAGGAGTTG CTGTCCTCGT GCTAGTACGC
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3801 CACCCGTGGC CAGGACCCAA CGCTGCCCGA GATGCGCCGC GTGCGGCTGC
      GTGGGCACCG GTCCTGGGTT GCGACGGGCT CTACGCGGCG CACGCCGACG
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3851 TGGAGATGGC GGACGCGATG GATATGTTCT GCCAAGGGTT GGT TTGCGCA
      ACCTCTACCG CCTGCGCTAC CTATACAAGA CGGTTCCCAA CCAAACGCGT
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3901 TTCACAGTTC TCCGAAGAA TTGATTGGCT CCAATTCTTG GAGTGGTGAA
      AAGTGTC AAG AGGCGTTCTT AACTAACCGA GGTTAAGAAC CTCACCACTT
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3951 TCCGTTAGCG AGGTGCCGCC GGCTTCCATT CAGGTCGAGG TGGCCCGGCT
      AGGCAATCGC TCCACGGCGG CCGAAGGTAA GTCCAGCTCC ACCGGGCCGA
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4001 CCATGCACCG CGACGCAACG CGGGGAGGCA GACAAGGTAT AGGGCGGCGC
      GGTACGTGGC GCTGCGTTGC GCCCTCCGT CTGTTCCATA TCCCGCCGCG
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4051 CTACAATCCA TGCCAACCCG TTCCATGTGC TCGCCGAGGC GGCATAAATC
      GATGTTAGGT ACGGTTGGGC AAGGTACACG AGCGGCTCCG CCGTATTTAG
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4101 GCCGTGACGA TCAGCGGTCC AGTGATCGAA GTTAGGCTGG TAAGAGCCGC
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4151 GAGCGATCCT TGAAGCTGTC CCTGATGGTC GTCATCTACC TGCCTGGACA
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4201 GCATGGCCTG CAACGCGGGC ATCCCGATGC CGCCGGAAGC GAGAAGAATC
      CGTACCGGAC GTTGCGCCCG TAGGGCTACG GCGGCCTTCG CTCTTCTTAG
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4251 ATAATGGGGA AGGCCATCCA GCCTCGCGTC GCGAACGCCA GCAAGACGTA
      TATTACCCCT TCCGGTAGGT CGGAGCGCAG CGCTTGCGGT CGTTCTGCAT
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4301 GCCCAGCGCG TCGGCCGCCA TGCCGGCGAT AATGGCCTGC TTCTCGCCGA
      CGGGTCGCGC AGCCGGCGGT ACGGCCGCTA TTACCGGACG AAGAGCGGCT
.....
4351 AACGTTTGGT GCGGGGACCA GTGACGAAGG CTTGAGCGAG GGC GTGCAAG
      TTGCAAACCA CCGCCCTGGT CACTGCTTCC GAACTCGCTC CCGCACGTTT
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4401 ATTCCGAATA CCGCAAGCGA CAGGCCGATC ATCGTCGCGC TCCAGCGAAA
      TAAGGCTTAT GCGGTTTCGCT GTCCGGCTAG TAGCAGCGCG AGGTCGCTTT
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4451 GCGGTCTCTG CCGAAAATGA CCCAGAGCGC TGCCGGCACC TGTCTACGA
      CGCCAGGAGC GGCTTTTACT GGGTCTCGCG ACGGCCGTGG ACAGGATGCT
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4501 GTTGCATGAT AAAGAAGACA GTCATAAGTG CGGCGACGAT AGTCATGCC
      CAACGTAATA TTTCTTCTGT CAGTATTCAC GCCGCTGCTA TCAGTACGGG
.....
4551 CGCGCCACC GGAAGGAGCT GACTGGGTTG AAGGCTCTCA AGGGCATCGG
      GCGCGGGTGG CCTTCCTCGA CTGACCCAAC TTCCGAGAGT TCCCGTAGCC
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4601 TCGAGATCCC GTGCCTAAT GAGTGAGCTA ACTTACATTA ATTGCGTTGC
      AGCTCTAGGG CCACGGATTA CTCACTCGAT TGAATGTAAT TAACGCAACG
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4651 GCTCACTGCC CGCTTTCAG TCGGGAAACC TGTCGTGCCA GCTGCATTAA
      CGAGTGACGG GCGAAAGGTC AGCCCTTTGG ACAGCACGGT CGACGTAATT
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4701 TGAATCGGCC AACGCGCGGG GAGAGGCGGT TTGCGTATTG GCGGCCAGGG
      ACTTAGCCGG TTGCGCGCCC CTCTCCGCCA AACGCATAAC CCGCGGTCCC
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4751 TGGTTTTTCT TTTCACCAGT GAGACGGGCA ACAGCTGATT GCCCTTCACC
      ACCAAAAGA AAAGTGGTCA CTCTGCCCGT TGTCGACTAA CGGGAAGTGG
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4801 GCCTGGCCCT GAGAGAGTTG CAGCAAGCGG TCCACGCTGG TTTGCCCCAG
      CGGACCGGGA CTCTCTCAAC GTCGTTTCGCC AGGTGCGACC AAACGGGGTC
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4851 CAGGCGAAAA TCCTGTTTGA TGGTGGTTAA CGGCGGGATA TAACATGAGC
      GTCCGCTTTT AGGACAAACT ACCACCAATT GCCGCCCTAT ATTGTACTCG
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4901 TGCTTTCGGT ATCGTCGTAT CCCACTACCG AGATATCCGC ACCAACCGCGC
      ACAGAAGCCA TAGCAGCATA GGGTGATGGC TCTATAGGCG TGGTTGCGCG
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4951 AGCCCGGACT CGGTAATGGC GCGCATTGCG CCCAGCGCCA TCTGATCGTT
      TCGGGCCTGA GCCATTACCG CGCGTAACGC GGGTCGCGGT AGLACTAGCAA
.....
5001 GGCAACCAGC ATCGCAGTGG GAACGATGCC CTCATTCAGC ATTTGCATGG
      CCGTTGGTCG TAGCGTCACC CTTGCTACGG GAGTAAGTCG TAAACGTACC
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5051 TTTGTTGAAA ACCGGACATG GCACTCCAGT CGCCTTCCCG TTCCGCTATC
      AAACAACCTT TGGCCTGTAC CGTGAGGTCA GCGGAAGGGC AAGGCGATAG
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5101 GGCTGAATTT GATTGCGAGT GAGATATTTA TGCCAGCCAG CCAGACGCAG
      CCGACTTAAA CTAACGCTCA CTCTATAAAT ACGGTCGGTC GGTCTGCGTC
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## pTLJ03

BstEII

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5151 ACGCGCCGAG ACAGAACTTA ATGGGCCCGC TAACAGCGCG ATTTGCTGGT  
 TGC GCGGCTC TGTCTTGAAT TACCCGGGCG ATTGTCGCGC TAAACGACCA

BstEII

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5201 GACCCAATGC GACCAGATGC TCCACGCCCA GTCGCGTACC GTCTTCATGG  
 CTGGGTTACG CTGGTCTACG AGGTGCGGGT CAGCGCATGG CAGAAGTACC

5251 GAGAAAATAA TACTGTTGAT GGGTGTCTGG TCAGAGACAT CAAGAAATAA  
 CTCTTTTATT ATGACAATA CCCACAGACC AGTCTCTGTA GTTCTTTATT

5301 CGCCGGAACA TTAGTGCAGG CAGCTTCCAC AGCAATGGCA TCCTGGTCAT  
 GCGGCCTTGT AATCACGTCC GTCGAAGGTG TCGTTACCGT AGGACCAGTA

5351 CCAGCGGATA GTTAATGATC AGCCCACTGA CGCGTTGCGC GAGAAGATTG  
 GGTGCGCTAT CAATTACTAG TCGGGTGACT GCGCAACGCG CTCTTCTAAC

5401 TGCACCGCCG CTTTACAGGC TTCGACGCCG CTTGTTCTA CCATCGACAC  
 ACGTGGCGGC GAAATGTCCG AAGCTGCGGC GAAGCAAGAT GGTAGCTGTG

5451 CACCACGCTG GCACCCAGTT GATCGGCGCG AGATTTAATC GCCGCGACAA  
 GTGGTGCAC CGTGGGTCAA CTAGCCGCGC TCTAAATTAG CGGCGCTGTT

5501 TTTGCGACGG CGCGTGCAGG GCCAGACTGG AGGTGGCAAC GCCAATCAGC  
 AAACGCTGCC GCGCACGTCC CGGTCTGACC TCCACCGTTG CGGTTAGTCG

5551 AACGACTGTT TGCCCGCCAG TTGTTGTGCC ACGCGGTTGG GAATGTAATT  
 TTGCTGACAA ACGGGCGGTC AACAAACACGG TGCGCCAACC CTTACATTAA

5601 CAGCTCCGCC ATCGCCGCTT CCACTTTTTT CCGCGTTTTT GCAGAAACGT  
 GTCGAGGCGG TAGCGGCGAA GGTGAAAAAG GGCGCAAAG CGTCTTTGCA

5651 GGCTGGCCTG GTTCACCACG CGGGAAACGG TCTGATAAGA GACACCGGCA  
 CCGACCGGAC CAAGTGGTGC GCCCTTTGCC AGACTATTCT CTGTGGCCGT

5701 TACTCTGCGA CATCGTATAA CGTTACTGGT TTCACATTCA CCACCCTGAA  
 ATGAGACGCT GTAGCATATT GCAATGACCA AAGTGTAAGT GGTGGGACTT

5751 TTGACTCTCT TCCGGGCGCT ATCATGCCAT ACCGCGAAAG GTTTTGCGCC  
 AACTGAGAGA AGGCCCGCGA TAGTACGGTA TGGCGCTTTC CAAAACGCGG

5801 ATTCGATGGT GTCCGGGATC TCGACGCTCT CCCTTATGCG ACTCCTGCAT  
 TAAGCTACCA CAGGCCCTAG AGCTGCGAGA GGGAATACGC TGAGGACGTA

5851 TAGGAAGCAG CCCAGTAGTA GGTGAGGCC GTTGAGCACC GCCGCCGCAA  
 ATCCTTCGTC GGGTCATCAT CCAACTCCGG CAACTCGTGG CGGCGGCGTT

5901 GGAATGGTGC ATGCAAGGAG ATGGCGCCA ACAGTCCCC GGCCACGGGG  
 CCTTACCACG TACGTTCCCT TACCGCGGGT TGTCAGGGGG CCGGTGCCCC

5951 CCTGCCACCA TACCCACGCC GAAACAAGCG CTCATGAGCC CGAAGTGGCG  
 GGACGGTGGT ATGGGTGCGG CTTTGTTCGC GAGTACTCGG GCTTCACCGC

6001 AGCCCGATCT TCCCATCGG TGATGTCGGC GATATAGGCG CCAGCAACCG  
 TCGGGCTAGA AGGGGTAGCC ACTACAGCCG CTATATCCGC GGTGTTGGC

6051 CACCTGTGGC GCCGGTGATG CCGGCCACGA TGCGTCCGGC GTAGAGGATC  
 GTGGACACCG CGGCCACTAC GGCCGGTGCT ACGCAGGCCG CATCTCCTAG

6101 G  
 C