```
                                                                  10        20        30        40        50        60        70        80
                                                                  ........................................................................
                                                                  AATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCaCcTGACGTCTAAGAAACCATTATTATCATGACATTAACC
ZC11-C28828-G0235736-1_PUC57-1.8K-SEQF.ab1(1>782)  ---->         AATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCaCcTGACGTCTAAGAAACCATTATTATCATGACATTAACC

                                                                  90       100       110       120       130       140       150       160
                                                                  ........................................................................
                                                                  TATAAAAATAGGCGTATCACGAGGCCCTTTCGTCCTCGAGGAGCTTGGCCCATTGCATACGTTGTATCCATATCATAATATGTA
ZC11-C28828-G0235736-1_PUC57-1.8K-SEQF.ab1(1>782)  ---->         TATAAAAATAGGCGTATCACGAGGCCCTTTCGTCCTCGAGGAGCTTGGCCCATTGCATACGTTGTATCCATATCATAATATGTA
G0235736-1.seq(1>4030)                             ---->                                         CTCGAGGAGCTTGGCCCATTGCATACGTTGTATCCATATCATAATATGTA

                                                                 170       180       190       200       210       220       230       240       250
                                                                  ........................................................................
                                                                  CATTTATATTGGCTCATGTCCAACATTACCGCCATGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTC
ZC11-C28828-G0235736-1_PUC57-1.8K-SEQF.ab1(1>782)  ---->         CATTTATATTGGCTCATGTCCAACATTACCGCCATGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTC
G0235736-1.seq(1>4030)                             ---->         CATTTATATTGGCTCATGTCCAACATTACCGCCATGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTC

                                                                      260       270       280       290       300       310       320       330
                                                                  ........................................................................
                                                                  ATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCG
ZC11-C28828-G0235736-1_PUC57-1.8K-SEQF.ab1(1>782)  ---->         ATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCG
G0235736-1.seq(1>4030)                             ---->         ATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCG

                                                                  340       350       360       370       380       390       400       410       420
                                                                  ........................................................................
                                                                  CCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGACTATTTACG
ZC11-C28828-G0235736-1_PUC57-1.8K-SEQF.ab1(1>782)  ---->         CCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGACTATTTACG
G0235736-1.seq(1>4030)                             ---->         CCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGACTATTTACG
ZC10-C28828-235736-1_G0235736-2-seq2RN.ab1(1>733)  <----                                                                                                CG

                                                                  430       440       450       460       470       480       490       500
                                                                  ........................................................................
                                                                  GTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGC
ZC11-C28828-G0235736-1_PUC57-1.8K-SEQF.ab1(1>782)  ---->         GTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGC
G0235736-1.seq(1>4030)                             ---->         GTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGC
ZC10-C28828-235736-1_G0235736-2-seq2RN.ab1(1>733)  <----         GTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGC

                                                                  510       520       530       540       550       560       570       580
                                                                  ........................................................................
                                                                  CTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGCT
ZC11-C28828-G0235736-1_PUC57-1.8K-SEQF.ab1(1>782)  ---->         CTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGCT
G0235736-1.seq(1>4030)                             ---->         CTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGCT
ZC10-C28828-235736-1_G0235736-2-seq2RN.ab1(1>733)  <----         CTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGCT

                                                                 590       600       610       620       630       640       650       660       670
                                                                  ........................................................................
                                                                  AGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTCGCTTC
ZC11-C28828-G0235736-1_PUC57-1.8K-SEQF.ab1(1>782)  ---->         AGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTCGCTTC
G0235736-1.seq(1>4030)                             ---->         AGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTCGCTTC
ZC10-C28828-235736-1_G0235736-2-seq2RN.ab1(1>733)  <----         AGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTCGCTTC

                                                                      680       690       700       710       720       730       740       750
                                                                  ........................................................................
                                                                  TCGCTTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTCGGGGCGCCAGTCCTCCGATTGA
ZC11-C28828-G0235736-1_PUC57-1.8K-SEQF.ab1(1>782)  ---->         TCGCTTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTCGGGGCGCCAGTCCTCCGATTGA
G0235736-1.seq(1>4030)                             ---->         TCGCTTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTCGGGGCGCCAGTCCTCCGATTGA
ZC10-C28828-235736-1_G0235736-2-seq2RN.ab1(1>733)  <----         TCGCTTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTCGGGGCGCCAGTCCTCCGATTGA

                                                                  760       770       780       790       800       810       820       830       840
                                                                  ........................................................................
                                                                  CTGAGTCGCCCGGGTACCCGTGTATCCAATAAACCCTCTTGCAGTTGCATCCGACTTGTGGTCTCGCTGTTCCTTGGGAGGGTC
ZC11-C28828-G0235736-1_PUC57-1.8K-SEQF.ab1(1>782)  ---->         CTGAGTCGCCCGGGTACCCGTGTATC
G0235736-1.seq(1>4030)                             ---->         CTGAGTCGCCCGGGTACCCGTGTATCCAATAAACCCTCTTGCAGTTGCATCCGACTTGTGGTCTCGCTGTTCCTTGGGAGGGTC
ZC10-C28828-235736-1_G0235736-2-seq2RN.ab1(1>733)  <----         CTGAGTCGCCCGGGTACCCGTGTATCCAATAAACCCTCTTGCAGTTGCATCCGACTTGTGGTCTCGCTGTTCCTTGGGAGGGTC

                                                                      850       860       870       880       890       900       910       920
                                                                  ........................................................................
                                                                  TCCTCTGAGTGATTGACTACCCGTCAGCGGGGGTCTTTCATTTGGGGGCTCGTCCGGGATCGGGAGACCCCTGCCCAGGGACCA
G0235736-1.seq(1>4030)                             ---->         TCCTCTGAGTGATTGACTACCCGTCAGCGGGGGTCTTTCATTTGGGGGCTCGTCCGGGATCGGGAGACCCCTGCCCAGGGACCA
ZC10-C28828-235736-1_G0235736-2-seq2RN.ab1(1>733)  <----         TCCTCTGAGTGATTGACTACCCGTCAGCGGGGGTCTTTCATTTGGGGGCTCGTCCGGGATCGGGAGACCCCTGCCCAGGGACCA

                                                                  930       940       950       960       970       980       990      1000
                                                                  ........................................................................
                                                                  CCGACCCACCACCGGGAGGTAAGCTGGCCAGCAACTTATCTGTGTCTGTCCGATTGTCTAGTGTCTATGACTGATTTTATGCGC
G0235736-1.seq(1>4030)                             ---->         CCGACCCACCACCGGGAGGTAAGCTGGCCAGCAACTTATCTGTGTCTGTCCGATTGTCTAGTGTCTATGACTGATTTTATGCGC
ZC10-C28828-235736-1_G0235736-2-seq2RN.ab1(1>733)  <----         CCGACCCACCACCGGGAGGTAAGCTGGCCAGCAACTTATCTGTGTCTGTCCGATTGTCTAGTGTCTATGACTGATTTTATGCGC

                                                                 1010      1020      1030      1040      1050      1060      1070      1080      1090
                                                                  ........................................................................
                                                                  CTGCGTCGGTACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCGTGGTGGAACTGACGAGTTCGGAACACCCGGCCGCAAC
G0235736-1.seq(1>4030)                             ---->         CTGCGTCGGTACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCGTGGTGGAACTGACGAGTTCGGAACACCCGGCCGCAAC
ZC10-C28828-235736-1_G0235736-2-seq2RN.ab1(1>733)  <----         CTGCGTCGGTACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCGTGGTGGAACTGACGAGTTCGGAACACCCGGCCGCAAC
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                                                      1100      1110      1120      1130      1140      1150      1160      1170
                                                CCTGGGAGACGTCCCAGGGACTTCGGGGGCCGTTTTTGTGGCCCGACCTGAGTCCAAAAATCCCGATCGTTTTGGACTCTTTGG

G0235736-1.seq(1>4030)                    →     CCTGGGAGACGTCCCAGGGACTTCGGGGGCCGTTTTTGTGGCCCGACCTGAGTCCAAAAATCCCGATCGTTTTGGACTCTTTGG
ZC10-C28828-235736-1_G0235736-2-seq2RN.ab1(1>733)  ←     CCTGGGAGACGTCCCAGGGACTTCGGGGGCCGTTTTTGTGGCCCGACCTGAGTCCAAAA
ZC08-C28828-235736-1_G0235736-1-seq3.ab1(1>788)   →             ACGTCCCAGGGACTTCGGGGGCCGTTTTTGTGGCCCGACCTGAGTCCAAAAATCCCGATCGTTTTGGACTCTTTGG

                                                      1180      1190      1200      1210      1220      1230      1240      1250      1260
                                                TGCACCCCCCTAATAGGAGGGATATGTGGTTCTGGTAGGAGACGAGAACCTAAAACAGTTCCCGCCTCCGTCTGAATTTTTGCT

G0235736-1.seq(1>4030)                    →     TGCACCCCCCTAATAGGAGGGATATGTGGTTCTGGTAGGAGACGAGAACCTAAAACAGTTCCCGCCTCCGTCTGAATTTTTGCT
ZC08-C28828-235736-1_G0235736-1-seq3.ab1(1>788)   →     TGCACCCCCCTAATAGGAGGGATATGTGGTTCTGGTAGGAGACGAGAACCTAAAACAGTTCCCGCCTCCGTCTGAATTTTTGCT

                                                      1270      1280      1290      1300      1310      1320      1330      1340
                                                TTCGGTTTGGGACCGAAGCCGCGCCGCGCGTCTTGTCTGCTGCAGCATCGTTCTGTGTTGTCTCTGTCTGACTGTGTTTCTGTA

G0235736-1.seq(1>4030)                    →     TTCGGTTTGGGACCGAAGCCGCGCCGCGCGTCTTGTCTGCTGCAGCATCGTTCTGTGTTGTCTCTGTCTGACTGTGTTTCTGTA
ZC08-C28828-235736-1_G0235736-1-seq3.ab1(1>788)   →     TTCGGTTTGGGACCGAAGCCGCGCCGCGCGTCTTGTCTGCTGCAGCATCGTTCTGTGTTGTCTCTGTCTGACTGTGTTTCTGTA

                                                      1350      1360      1370      1380      1390      1400      1410      1420
                                                TTTGTCTGAAAATTAGGGCCAGACTGTTACCACTCCCTTAAGTTTGACCTTAGGTCACTGGAAAGATGTCGAGCGGATCGCTCA

G0235736-1.seq(1>4030)                    →     TTTGTCTGAAAATTAGGGCCAGACTGTTACCACTCCCTTAAGTTTGACCTTAGGTCACTGGAAAGATGTCGAGCGGATCGCTCA
ZC08-C28828-235736-1_G0235736-1-seq3.ab1(1>788)   →     TTTGTCTGAAAATTAGGGCCAGACTGTTACCACTCCCTTAAGTTTGACCTTAGGTCACTGGAAAGATGTCGAGCGGATCGCTCA

                                                      1430      1440      1450      1460      1470      1480      1490      1500      1510
                                                CAACCAGTCGGTAGATGTCAAGAAGAGACGTTGGGTTACCTTCTGCTCTGCAGAATGGCCAACCTTTAACGTCGGATGGCCGCG

G0235736-1.seq(1>4030)                    →     CAACCAGTCGGTAGATGTCAAGAAGAGACGTTGGGTTACCTTCTGCTCTGCAGAATGGCCAACCTTTAACGTCGGATGGCCGCG
ZC08-C28828-235736-1_G0235736-1-seq3.ab1(1>788)   →     CAACCAGTCGGTAGATGTCAAGAAGAGACGTTGGGTTACCTTCTGCTCTGCAGAATGGCCAACCTTTAACGTCGGATGGCCGCG

                                                      1520      1530      1540      1550      1560      1570      1580      1590
                                                AGACGGCACCTTTAACCGAGACCTCATCACCCAGGTTAAGATCAAGGTCTTTTCACCTGGCCCGCATGGACACCCAGACCAGGT

G0235736-1.seq(1>4030)                    →     AGACGGCACCTTTAACCGAGACCTCATCACCCAGGTTAAGATCAAGGTCTTTTCACCTGGCCCGCATGGACACCCAGACCAGGT
ZC08-C28828-235736-1_G0235736-1-seq3.ab1(1>788)   →     AGACGGCACCTTTAACCGAGACCTCATCACCCAGGTTAAGATCAAGGTCTTTTCACCTGGCCCGCATGGACACCCAGACCAGGT

                                                      1600      1610      1620      1630      1640      1650      1660      1670      1680
                                                CCCCTACATCGTGACCTGGGAAGCCTTGGCTTTTGACCCCCCTCCCTGGGTCAAGCCCTTTGTACACCCTAAGCCTCCGCCTCC

G0235736-1.seq(1>4030)                    →     CCCCTACATCGTGACCTGGGAAGCCTTGGCTTTTGACCCCCCTCCCTGGGTCAAGCCCTTTGTACACCCTAAGCCTCCGCCTCC
ZC08-C28828-235736-1_G0235736-1-seq3.ab1(1>788)   →     CCCCTACATCGTGACCTGGGAAGCCTTGGCTTTTGACCCCCCTCCCTGGGTCAAGCCCTTTGTACACCCTAAGCCTCCGCCTCC

                                                      1690      1700      1710      1720      1730      1740      1750      1760
                                                TCTTCCTCCATCCGCCCCGTCTCTCCCCCTTGAACCTCCTCGTTCGACCCCGCCTCGATCCTCCCTTTATCCAGCCCTCACTCC

G0235736-1.seq(1>4030)                    →     TCTTCCTCCATCCGCCCCGTCTCTCCCCCTTGAACCTCCTCGTTCGACCCCGCCTCGATCCTCCCTTTATCCAGCCCTCACTCC
ZC08-C28828-235736-1_G0235736-1-seq3.ab1(1>788)   →     TCTTCCTCCATCCGCCCCGTCTCTCCCCCTTGAACCTCCTCGTTCGACCCCGCCTCGATCCTCCCTTTATCCAGCCCTCACTCC
ZC09-C28828-235736-1_G0235736-1-seq4.ab1(1>791)   →                                   CCCTTGAACCTCCTCGTTCGACCCCGCCTCGATCCTCCCTTTATCCAGCCCTCACTCC

                                                      1770      1780      1790      1800      1810      1820      1830      1840
                                                TTCTCTAGGCGCCCCCATATGGCCATATGAGATCTTATATGGGGCACCCCCGCCCCTTGTAAACTTCCCTGACCCTGACTTGAC

G0235736-1.seq(1>4030)                    →     TTCTCTAGGCGCCCCCATATGGCCATATGAGATCTTATATGGGGCACCCCCGCCCCTTGTAAACTTCCCTGACCCTGACTTGAC
ZC08-C28828-235736-1_G0235736-1-seq3.ab1(1>788)   →     TTCTCTAGGCGCCCCCATATGGCCATATGAGATCTTATATGGGGCACCCCCGCCCCTTGTAAACTTCCCTGACCCTGACTTGAC
ZC09-C28828-235736-1_G0235736-1-seq4.ab1(1>791)   →     TTCTCTAGGCGCCCCCATATGGCCATATGAGATCTTATATGGGGCACCCCCGCCCCTTGTAAACTTCCCTGACCCTGACTTGAC

                                                      1850      1860      1870      1880      1890      1900      1910      1920      1930
                                                AAGAGTTACTAACAGCCCCTCTCTCCAAGCTCACTTACAGGCTCTCTACTTAGTCCAGCACGAAGTCTGGAGACCTCTGGCGGC

G0235736-1.seq(1>4030)                    →     AAGAGTTACTAACAGCCCCTCTCTCCAAGCTCACTTACAGGCTCTCTACTTAGTCCAGCACGAAGTCTGGAGACCTCTGGCGGC
ZC08-C28828-235736-1_G0235736-1-seq3.ab1(1>788)   →     AAGAGTTACTAACAGCCCCTCTCTCCAAGCTCACTTACAG
ZC09-C28828-235736-1_G0235736-1-seq4.ab1(1>791)   →     AAGAGTTACTAACAGCCCCTCTCTCCAAGCTCACTTACAGGCTCTCTACTTAGTCCAGCACGAAGTCTGGAGACCTCTGGCGGC

                                                      1940      1950      1960      1970      1980      1990      2000      2010
                                                AGCCTACCAAGAACAACTGGACCGACCGGTGGTACCTCACCCTTACCGAGTCGGCGACACAGTGTGGGTCCGCCGACACCAGAC

G0235736-1.seq(1>4030)                    →     AGCCTACCAAGAACAACTGGACCGACCGGTGGTACCTCACCCTTACCGAGTCGGCGACACAGTGTGGGTCCGCCGACACCAGAC
ZC09-C28828-235736-1_G0235736-1-seq4.ab1(1>791)   →     AGCCTACCAAGAACAACTGGACCGACCGGTGGTACCTCACCCTTACCGAGTCGGCGACACAGTGTGGGTCCGCCGACACCAGAC

                                                      2020      2030      2040      2050      2060      2070      2080      2090      2100
                                                TAAGAACCTAGAACCTCGCTGGAAAGGACCTTACACAGTCCTGCTGACCACCCCCACCGCCCTCAAAGTAGACGGCATCGCAGC

G0235736-1.seq(1>4030)                    →     TAAGAACCTAGAACCTCGCTGGAAAGGACCTTACACAGTCCTGCTGACCACCCCCACCGCCCTCAAAGTAGACGGCATCGCAGC
ZC09-C28828-235736-1_G0235736-1-seq4.ab1(1>791)   →     TAAGAACCTAGAACCTCGCTGGAAAGGACCTTACACAGTCCTGCTGACCACCCCCACCGCCCTCAAAGTAGACGGCATCGCAGC

                                                      2110      2120      2130      2140      2150      2160      2170      2180
                                                TTGGATACACGCCGCCCACGTGAAGGCTGCCGACCCCGGGGGTGGACCATCCTCTAGACTGCCGGATCCCAGTGTGGTGGTACG

G0235736-1.seq(1>4030)                    →     TTGGATACACGCCGCCCACGTGAAGGCTGCCGACCCCGGGGGTGGACCATCCTCTAGACTGCCGGATCCCAGTGTGGTGGTACG
ZC09-C28828-235736-1_G0235736-1-seq4.ab1(1>791)   →     TTGGATACACGCCGCCCACGTGAAGGCTGCCGACCCCGGGGGTGGACCATCCTCTAGACTGCCGGATCCCAGTGTGGTGGTACG
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                                                  2190      2200      2210      2220      2230      2240      2250      2260
                                                  GGAATTCCGGACCGACGCGTGCGGCCGCGGTAACAATTGTTAACTAACTTAAGCTAGCAACGGTTTCCCTCTAGCGGGATCAAT

G0235736-1.seq(1>4030)                            GGAATTCCGGACCGACGCGTGCGGCCGCGGTAACAATTGTTAACTAACTTAAGCTAGCAACGGTTTCCCTCTAGCGGGATCAAT
ZC09-C28828-235736-1_G0235736-1-seq4.ab1(1>791)   GGAATTCCGGACCGACGCGTGCGGCCGCGGTAACAATTGTTAACTAACTTAAGCTAGCAACGGTTTCCCTCTAGCGGGATCAAT

                                                  2270      2280      2290      2300      2310      2320      2330      2340      2350
                                                  TCCGCCCCCCCCCCCCTAACGTTACTGGCCGAAGCCGCTTGGAATAAGGCCGGTGTGCGTTTGTCTATATGTTATTTTCCACCAT

G0235736-1.seq(1>4030)                            TCCGCCCCCCCCCCCCTAACGTTACTGGCCGAAGCCGCTTGGAATAAGGCCGGTGTGCGTTTGTCTATATGTTATTTTCCACCAT
ZC09-C28828-235736-1_G0235736-1-seq4.ab1(1>791)   TCCGCCCCCCCCCCCCTAACGTTACTGGCCGAAGCCGCTTGGAATAAGGCCGGTGTGCGTTTGTCTATATGTTATTTTCCACCAT
ZC10-C28828-235736-1_G0235736-1-seq5.ab1(1>791)                                                 TGGAATAAGGCCGGTGTGCGTTTGTCTATATGTTATTTTCCACCAT

                                                  2360      2370      2380      2390      2400      2410      2420      2430
                                                  ATTGCCGTCTTTTGGCAATGTGAGGGCCCGGAAACCTGGCCCTGTCTTCTTGACGAGCATTCCTAGGGGTCTTTCCCCTCTCGC

G0235736-1.seq(1>4030)                            ATTGCCGTCTTTTGGCAATGTGAGGGCCCGGAAACCTGGCCCTGTCTTCTTGACGAGCATTCCTAGGGGTCTTTCCCCTCTCGC
ZC09-C28828-235736-1_G0235736-1-seq4.ab1(1>791)   ATTGCCGTCTTTTGGCAATGTGAGGGCCCGGAAACCTGGCCCTGTCTTCTTGACGAGCATTCCTAGGGGTCTTTCCCCTCTCGC
ZC10-C28828-235736-1_G0235736-1-seq5.ab1(1>791)   ATTGCCGTCTTTTGGCAATGTGAGGGCCCGGAAACCTGGCCCTGTCTTCTTGACGAGCATTCCTAGGGGTCTTTCCCCTCTCGC

                                                  2440      2450      2460      2470      2480      2490      2500      2510      2520
                                                  CAAAGGAATGCAAGGTCTGTTGAATGTCGTGAAGGAAGCAGTTCCTCTGGAAGCTTCTTGAAGACAAACAACGTCTGTAGCGAC

G0235736-1.seq(1>4030)                            CAAAGGAATGCAAGGTCTGTTGAATGTCGTGAAGGAAGCAGTTCCTCTGGAAGCTTCTTGAAGACAAACAACGTCTGTAGCGAC
ZC09-C28828-235736-1_G0235736-1-seq4.ab1(1>791)   CAAAGGAATGCAAGGTCTGTTGAATGTCGTGAAGGAAGCAGTTCCTCTGGAAGCTTCTTGA
ZC10-C28828-235736-1_G0235736-1-seq5.ab1(1>791)   CAAAGGAATGCAAGGTCTGTTGAATGTCGTGAAGGAAGCAGTTCCTCTGGAAGCTTCTTGAAGACAAACAACGTCTGTAGCGAC

                                                  2530      2540      2550      2560      2570      2580      2590      2600
                                                  CCTTTGCAGGCAGCGGAACCCCCCACCTGGCGACAGGTGCCTCTGCGGCCAAAAGCCACGTGTATAAGATACACCTGCAAAGGC

G0235736-1.seq(1>4030)                            CCTTTGCAGGCAGCGGAACCCCCCACCTGGCGACAGGTGCCTCTGCGGCCAAAAGCCACGTGTATAAGATACACCTGCAAAGGC
ZC10-C28828-235736-1_G0235736-1-seq5.ab1(1>791)   CCTTTGCAGGCAGCGGAACCCCCCACCTGGCGACAGGTGCCTCTGCGGCCAAAAGCCACGTGTATAAGATACACCTGCAAAGGC

                                                  2610      2620      2630      2640      2650      2660      2670      2680
                                                  GGCACAACCCCAGTGCCACGTTGTGAGTTGGATAGTTGTGGAAAGAGTCAAATGGCTCTCCTCAAGCGTATTCAACAAGGGGCT

G0235736-1.seq(1>4030)                            GGCACAACCCCAGTGCCACGTTGTGAGTTGGATAGTTGTGGAAAGAGTCAAATGGCTCTCCTCAAGCGTATTCAACAAGGGGCT
ZC10-C28828-235736-1_G0235736-1-seq5.ab1(1>791)   GGCACAACCCCAGTGCCACGTTGTGAGTTGGATAGTTGTGGAAAGAGTCAAATGGCTCTCCTCAAGCGTATTCAACAAGGGGCT

                                                  2690      2700      2710      2720      2730      2740      2750      2760      2770
                                                  GAAGGATGCCCAGAAGGTACCCCATTGTATGGGATCTGATCTGGGGCCTCGGTGCACATGCTTTACATGTGTTTAGTCGAGGTT

G0235736-1.seq(1>4030)                            GAAGGATGCCCAGAAGGTACCCCATTGTATGGGATCTGATCTGGGGCCTCGGTGCACATGCTTTACATGTGTTTAGTCGAGGTT
ZC10-C28828-235736-1_G0235736-1-seq5.ab1(1>791)   GAAGGATGCCCAGAAGGTACCCCATTGTATGGGATCTGATCTGGGGCCTCGGTGCACATGCTTTACATGTGTTTAGTCGAGGTT

                                                  2780      2790      2800      2810      2820      2830      2840      2850
                                                  AAAAAACGTCTAGGCCCCCCGAACCACGGGGACGTGGTTTTCCTTTGAAAAACACGATAATACCATGACCGAGTACAAGCCCAC

G0235736-1.seq(1>4030)                            AAAAAACGTCTAGGCCCCCCGAACCACGGGGACGTGGTTTTCCTTTGAAAAACACGATAATACCATGACCGAGTACAAGCCCAC
ZC10-C28828-235736-1_G0235736-1-seq5.ab1(1>791)   AAAAAACGTCTAGGCCCCCCGAACCACGGGGACGTGGTTTTCCTTTGAAAAACACGATAATACCATGACCGAGTACAAGCCCAC

                                                  2860      2870      2880      2890      2900      2910      2920      2930      2940
                                                  GGTGCGCCTCGCCACCCGCGACGACGTCCCCCGGGCCGTACGCACCCTCGCCGCCGCGTTCGCCGACTACCCCGCCACGCGCCA

G0235736-1.seq(1>4030)                            GGTGCGCCTCGCCACCCGCGACGACGTCCCCCGGGCCGTACGCACCCTCGCCGCCGCGTTCGCCGACTACCCCGCCACGCGCCA
ZC10-C28828-235736-1_G0235736-1-seq5.ab1(1>791)   GGTGCGCCTCGCCACCCGCGACGACGTCCCCCGGGCCGTACGCACCCTCGCCGCCGCGTTCGCCGACTACCCCGCCACGCGCCA
ZC11-C28828-235736-1_G0235736-1-seq6.ab1(1>791)                                                 ACGCACCCTCGCCGCCGCGTTCGCCGACTACCCCGCCACGCGCCA

                                                  2950      2960      2970      2980      2990      3000      3010      3020
                                                  CACCGTCGACCCGGACCGCCACATCGAGCGGGTCACCGAGCTGCAAGAACTCTTCCTCACGCGCGTCGGGCTCGACATCGGCAA

G0235736-1.seq(1>4030)                            CACCGTCGACCCGGACCGCCACATCGAGCGGGTCACCGAGCTGCAAGAACTCTTCCTCACGCGCGTCGGGCTCGACATCGGCAA
ZC10-C28828-235736-1_G0235736-1-seq5.ab1(1>791)   CACCGTCGACCCGGACCGCCACATCGAGCGGGTCACCGAGCTGCAAGAACTCTTCCTCACGCGCGTCGGGCTCGACATCGGCAA
ZC11-C28828-235736-1_G0235736-1-seq6.ab1(1>791)   CACCGTCGACCCGGACCGCCACATCGAGCGGGTCACCGAGCTGCAAGAACTCTTCCTCACGCGCGTCGGGCTCGACATCGGCAA

                                                  3030      3040      3050      3060      3070      3080      3090      3100
                                                  GGTGTGGGTCGCGGACGACGGCGCCGCGGTGGCGGTCTGGACCACGCCGGAGAGCGTCGAAGCGGGGGCGGTGTTCGCCGAGAT

G0235736-1.seq(1>4030)                            GGTGTGGGTCGCGGACGACGGCGCCGCGGTGGCGGTCTGGACCACGCCGGAGAGCGTCGAAGCGGGGGCGGTGTTCGCCGAGAT
ZC10-C28828-235736-1_G0235736-1-seq5.ab1(1>791)   GGTGTGGGTCGCGGACGACGGCGCCGCGGTGGCGGTCTGGACCACGCCGGAGAGCGTCGAAGCGGGGGCGGTG
ZC11-C28828-235736-1_G0235736-1-seq6.ab1(1>791)   GGTGTGGGTCGCGGACGACGGCGCCGCGGTGGCGGTCTGGACCACGCCGGAGAGCGTCGAAGCGGGGGCGGTGTTCGCCGAGAT

                                                  3110      3120      3130      3140      3150      3160      3170      3180      3190
                                                  CGGCCCGCGCATGGCCGAGTTGAGCGGTTCCCGGCTGGCCGCGCAGCAACAGATGGAAGGCCTCCTGGCGCCGCACCGGCCCAA

G0235736-1.seq(1>4030)                            CGGCCCGCGCATGGCCGAGTTGAGCGGTTCCCGGCTGGCCGCGCAGCAACAGATGGAAGGCCTCCTGGCGCCGCACCGGCCCAA
ZC11-C28828-235736-1_G0235736-1-seq6.ab1(1>791)   CGGCCCGCGCATGGCCGAGTTGAGCGGTTCCCGGCTGGCCGCGCAGCAACAGATGGAAGGCCTCCTGGCGCCGCACCGGCCCAA

                                                  3200      3210      3220      3230      3240      3250      3260      3270
                                                  GGAGCCCGCGTGGTTCCTGGCCACCGTCGGCGTCTCGCCCGACCACCAGGGCAAGGGTCTGGGCAGCGCCGTCGTGCTCCCCGG

G0235736-1.seq(1>4030)                            GGAGCCCGCGTGGTTCCTGGCCACCGTCGGCGTCTCGCCCGACCACCAGGGCAAGGGTCTGGGCAGCGCCGTCGTGCTCCCCGG
ZC11-C28828-235736-1_G0235736-1-seq6.ab1(1>791)   GGAGCCCGCGTGGTTCCTGGCCACCGTCGGCGTCTCGCCCGACCACCAGGGCAAGGGTCTGGGCAGCGCCGTCGTGCTCCCCGG
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                                                                                 3280      3290      3300      3310      3320      3330      3340      3350      3360
                                                                                 AGTGGAGGCGGCCGAGCGCGCCGGGGTGCCCGCCTTCCTGGAGACCTCCGCGCCCCGCAACCTCCCCTTCTACGAGCGGCTCGG

G0235736-1.seq(1>4030)                                                           AGTGGAGGCGGCCGAGCGCGCCGGGGTGCCCGCCTTCCTGGAGACCTCCGCGCCCCGCAACCTCCCCTTCTACGAGCGGCTCGG
ZC11-C28828-235736-1_G0235736-1-seq6.ab1(1>791)                                  AGTGGAGGCGGCCGAGCGCGCCGGGGTGCCCGCCTTCCTGGAGACCTCCGCGCCCCGCAACCTCCCCTTCTACGAGCGGCTCGG

                                                                                         3370      3380      3390      3400      3410      3420      3430      3440
                                                                                 CTTCACCGTCACCGCCGACGTCGAGTGCCCGAAGGACCGCGCGACCTGGTGCATGACCCGCAAGCCCGGTGCCTGACGCCTCGA

G0235736-1.seq(1>4030)                                                           CTTCACCGTCACCGCCGACGTCGAGTGCCCGAAGGACCGCGCGACCTGGTGCATGACCCGCAAGCCCGGTGCCTGACGCCTCGA
ZC11-C28828-235736-1_G0235736-1-seq6.ab1(1>791)                                  CTTCACCGTCACCGCCGACGTCGAGTGCCCGAAGGACCGCGCGACCTGGTGCATGACCCGCAAGCCCGGTGCCTGACGCCTCGA

                                                                                    3450      3460      3470      3480      3490      3500      3510      3520
                                                                                 CACGATAAAATAAAAGATTTTATTTAGTCTCCAGAAAAAGGGGGGAATGAAAGACCCCACCTGTAGGTTTGGCAAGCTAGCTTA

G0235736-1.seq(1>4030)                                                           CACGATAAAATAAAAGATTTTATTTAGTCTCCAGAAAAAGGGGGGAATGAAAGACCCCACCTGTAGGTTTGGCAAGCTAGCTTA
ZC11-C28828-235736-1_G0235736-1-seq6.ab1(1>791)                                  CACGATAAAATAAAAGATTTTATTTAGTCTCCAGAAAAAGGGGGGAATGAAAGACCCCACCTGTAGGTTTGGCAAGCTAGCTTA
ZC12-C28828-235736-1_G0235736-1-seq7.ab1(1>789)                                                                                  TGAAAGACCCCACCTGTAGGTTTGGCAAGCTAGCTTA

                                                                                 3530      3540      3550      3560      3570      3580      3590      3600      3610
                                                                                 AGTAACGCCATTTTGGAAGGCATGGAAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGGTCAGGAACAGATGGAACAGC

G0235736-1.seq(1>4030)                                                           AGTAACGCCATTTTGGAAGGCATGGAAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGGTCAGGAACAGATGGAACAGC
ZC11-C28828-235736-1_G0235736-1-seq6.ab1(1>791)                                  AGTAACGCCATTTTGGAAGGCATGGAAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGGTCAGGAACAGATGGAACAGC
ZC12-C28828-235736-1_G0235736-1-seq7.ab1(1>789)                                  AGTAACGCCATTTTGGAAGGCATGGAAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGGTCAGGAACAGATGGAACAGC
ZC12-C28828-G0235736-1_PUC57-1.8K-SEQR.ab1(1>791)                                                                   ACATAACTGAGAATAGAGAAGTTCAGATCAAGGTCAGGAACAGATGGAACAGC

                                                                                      3620      3630      3640      3650      3660      3670      3680      3690
                                                                                 TGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGAACAGCTGAATATGG

G0235736-1.seq(1>4030)                                                           TGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGAACAGCTGAATATGG
ZC11-C28828-235736-1_G0235736-1-seq6.ab1(1>791)                                  TGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGAACAG
ZC12-C28828-235736-1_G0235736-1-seq7.ab1(1>789)                                  TGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGAACAGCTGAATATGG
ZC12-C28828-G0235736-1_PUC57-1.8K-SEQR.ab1(1>791)                                TGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGAACAGCTGAATATGG

                                                                                 3700      3710      3720      3730      3740      3750      3760      3770      3780
                                                                                 GCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTCCAGCCCTCA

G0235736-1.seq(1>4030)                                                           GCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTCCAGCCCTCA
ZC12-C28828-235736-1_G0235736-1-seq7.ab1(1>789)                                  GCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTCCAGCCCTCA
ZC12-C28828-G0235736-1_PUC57-1.8K-SEQR.ab1(1>791)                                GCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTCCAGCCCTCA

                                                                                         3790      3800      3810      3820      3830      3840      3850      3860
                                                                                 GCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCA

G0235736-1.seq(1>4030)                                                           GCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCA
ZC12-C28828-235736-1_G0235736-1-seq7.ab1(1>789)                                  GCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCA
ZC12-C28828-G0235736-1_PUC57-1.8K-SEQR.ab1(1>791)                                GCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCA

                                                                                    3870      3880      3890      3900      3910      3920      3930      3940
                                                                                 GTTCGCTTCTCGCTTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTCGGCGCGCCAGTCC

G0235736-1.seq(1>4030)                                                           GTTCGCTTCTCGCTTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTCGGCGCGCCAGTCC
ZC12-C28828-235736-1_G0235736-1-seq7.ab1(1>789)                                  GTTCGCTTCTCGCTTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTCGGCGCGCCAGTCC
ZC12-C28828-G0235736-1_PUC57-1.8K-SEQR.ab1(1>791)                                GTTCGCTTCTCGCTTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTCGGCGCGCCAGTCC

                                                                                 3950      3960      3970      3980      3990      4000      4010      4020      4030
                                                                                 TCCGATTGACTGAGTCGCCCGGGTACCCGTGTATCCAATAAACCCTCTTGCAGTTGCATCCGACTTGTGGTCTCGCTGTTCCTT

G0235736-1.seq(1>4030)                                                           TCCGATTGACTGAGTCGCCCGGGTACCCGTGTATCCAATAAACCCTCTTGCAGTTGCATCCGACTTGTGGTCTCGCTGTTCCTT
ZC12-C28828-235736-1_G0235736-1-seq7.ab1(1>789)                                  TCCGATTGACTGAGTCGCCCGGGTACCCGTGTATCCAATAAACCCTCTTGCAGTTGCATCCGACTTGTGGTCTCGCTGTTCCTT
ZC12-C28828-G0235736-1_PUC57-1.8K-SEQR.ab1(1>791)                                TCCGATTGACTGAGTCGCCCGGGTACCCGTGTATCCAATAAACCCTCTTGCAGTTGCATCCGACTTGTGGTCTCGCTGTTCCTT

                                                                                      4040      4050      4060      4070      4080      4090      4100      4110
                                                                                 GGGAGGGTCTCCTCTGAGTGATTGACTACCCGTCAGCGGGGGTCTTTCACATGCAGCATGTATCAAAATTAATTTGGTTTTTTT

G0235736-1.seq(1>4030)                                                           GGGAGGGTCTCCTCTGAGTGATTGACTACCCGTCAGCGGGGGTCTTTCACATGCAGCATGTATCAAAATTAATTTGGTTTTTTT
ZC12-C28828-235736-1_G0235736-1-seq7.ab1(1>789)                                  GGGAGGGTCTCCTCTGAGTGATTGACTACCCGTCAGCGGGGGTCTTTCACATGCAGCATGTATCAAAATTAATTTGGTTTTTTT
ZC12-C28828-G0235736-1_PUC57-1.8K-SEQR.ab1(1>791)                                GGGAGGGTCTCCTCTGAGTGATTGACTACCCGTCAGCGGGGGTCTTTCACATGCAGCATGTATCAAAATTAATTTGGTTTTTTT

                                                                                 4120      4130      4140      4150      4160      4170      4180      4190      4200
                                                                                 TCTTAAGTATTAACATTAAATGGCCATAGTTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCT

G0235736-1.seq(1>4030)                                                           TCTTAAGTATTAACATTAAATGGCCATAGT
ZC12-C28828-235736-1_G0235736-1-seq7.ab1(1>789)                                  TCTTAAGTATTAACATTAAATGGCCATAGTTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCT
ZC12-C28828-G0235736-1_PUC57-1.8K-SEQR.ab1(1>791)                                TCTTAAGTATTAACATTAAATGGCCATAGTTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCT

                                                                                         4210      4220      4230      4240      4250      4260      4270      4280
                                                                                 CTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATAC

ZC12-C28828-235736-1_G0235736-1-seq7.ab1(1>789)                                  CTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTA
ZC12-C28828-G0235736-1_PUC57-1.8K-SEQR.ab1(1>791)                                CTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATAC
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                                                    4290      4300      4310      4320      4330      4340      4350
                                                    |         |         |         |         |         |         |
                                                    GGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCA
ZC12-C28828-G0235736-1_PUC57-1.8K-SEQR.ab1(1>791)   GGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCA
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