```
                                                          10        20        30        40        50        60
                                                  ATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTGGCTAGCGTTTAAACTTAAGCTTAT
C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800)   →       ATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTGGCTAGCGTTTAAACTTAAGCTTAT
AA47641-2-1-97aa.seq(1>372)               →                                                           AAGCTTAT

                                                     70        80        90       100       110       120
                                                  GAGCATTCTGAAAATTCATGCGCGCGAAATTTTTGATAGCCGCGGCAACCCGACCGTGGAAGTG
C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800)   →       GAGCATTCTGAAAATTCATGCGCGCGAAATTTTTGATAGCCGCGGCAACCCGACCGTGGAAGTG
AA47641-2-1-97aa.seq(1>372)               →       GAGCATTCTGAAAATTCATGCGCGCGAAATTTTTGATAGCCGCGGCAACCCGACCGTGGAAGTG

                                                    130       140       150       160       170       180       190
                                                  GATCTGTTTACGAGCAAAGGCCTGTTTCGCGCGGCGGTGCCGAGCGGCGCGAGCACCGGCATTT
C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800)   →       GATCTGTTTACGAGCAAAGGCCTGTTTCGCGCGGCGGTGCCGAGCGGCGCGAGCACCGGCATTT
AA47641-2-1-97aa.seq(1>372)               →       GATCTGTTTACGAGCAAAGGCCTGTTTCGCGCGGCGGTGCCGAGCGGCGCGAGCACCGGCATTT

                                                      200       210       220       230       240       250
                                                  ATGAAGCGCTGGAACTGCGCGATAACGATAAAACCCGCTATATGGGCAAAGGCGTGAGCAAAGC
C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800)   →       ATGAAGCGCTGGAACTGCGCGATAACGATAAAACCCGCTATATGGGCAAAGGCGTGAGCAAAGC
AA47641-2-1-97aa.seq(1>372)               →       ATGAAGCGCTGGAACTGCGCGATAACGATAAAACCCGCTATATGGGCAAAGGCGTGAGCAAAGC

                                                    260       270       280       290       300       310       320
                                                  GGTGGAACATATTAACAAAACCATTGCGCCGGCGCTGGTGAGCAAAAAACTGAACGTGACCGAA
C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800)   →       GGTGGAACATATTAACAAAACCATTGCGCCGGCGCTGGTGAGCAAAAAACTGAACGTGACCGAA
AA47641-2-1-97aa.seq(1>372)               →       GGTGGAACATATTAACAAAACCATTGCGCCGGCGCTGGTGAGCAAAAAACTGAACGTGACCGAA

                                                      330       340       350       360       370       380
                                                  CAAGAAAAAAATTGATAAACTGATGATTGAAATGGACTACAAAGACCATGACGGTGATTATAAAG
C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800)   →       CAAGAAAAAAATTGATAAACTGATGATTGAAATGGACTACAAAGACCATGACGGTGATTATAAAG
AA47641-2-1-97aa.seq(1>372)               →       CAAGAAAAAAATTGATAAACTGATGATTGAAATGgactacaaagaccatgacggtgattataaag

                                                     390       400       410       420       430       440
                                                  ATCATGACATCGATTACAAGGATGACGATGACAAGTAAGGATCCACTAGTCCAGTGTGGTGGAA
C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800)   →       ATCATGACATCGATTACAAGGATGACGATGACAAGTAAGGATCCACTAGTCCAGTGTGGTGGAA
AA47641-2-1-97aa.seq(1>372)               →       atcatgacatcgattacaaggatgacgatgacaagTAAGGATCC

                                                    450       460       470       480       490       500       510
                                                  TTCTGCAGATATCCAGCACAGTGGCGGCCGCTCGAGTCTAGAGGGCCCGTTTAAACCCGCTGAT
C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800)   →       TTCTGCAGATATCCAGCACAGTGGCGGCCGCTCGAGTCTAGAGGGCCCGTTTAAACCCGCTGAT

                                                      520       530       540       550       560       570
                                                  CAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTTGCCCCTCCCCCGTGCCTTCCTT
C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800)   →       CAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTTGCCCCTCCCCCGTGCCTTCCTT

                                                    580       590       600       610       620       630       640
                                                  GACCCTGGAAGGTGCCACTCCCACTGTCCTTTCCTAATAAAATGAGGAAATTGCATCGCATTGT
C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800)   →       GACCCTGGAAGGTGCCACTCCCACTGTCCTTTCCTAATAAAATGAGGAAATTGCATCGCATTGT

                                                      650       660       670       680       690       700
                                                  CTGAGTAGGTGTCATTCTATTCTGGGGGGTGGGGTGGGGCAGGACAGCAAGGGGGAGGATTGGG
C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800)   →       CTGAGTAGGTGTCATTCTATTCTGGGGGGTGGGGTGGGGCAGGACAGCAAGGGGGAGGATTGGG

                                                     710       720       730       740       750       760
                                                  AAGACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAG
C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800)   →       AAGACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAG
```

770

CTG

C911560-AA47641-2-DBQ-ZC-ZB-JN-(30>800) → CTG