(a)

```
T36FL          ATGAGCTTTCGGCGCTTGTGGTTAAAGGTTATGGCTGTAGTTACGGTATTATGGTACGGT  60
T36CA-V0       ------------------------------------------------------------  60
T36CA-ori      ------------------------------------------------------------  60

T36FL          AAAGAGCCTTCCATTAGTGAAGGTTACAATGCTCTCATGAATGATGACTTTAAGTTTATC  120
T36CA-V0       ------------------------------------------------------------  120
T36CA-ori      ------------------------------------------------------------  120

T36FL          GATACGCATTTTACAAACGTTTCTTACGCTAAGAAATGTTACGATTTGGCTAATTTCGAT  180
T36CA-V0       ----------------------------T-------------------------------  180
T36CA-ori      ----------------------------T-------------------------------  180

T36FL          TTAGACTTTCTACGCATCGTTATCATTCCTTTGAGTGGGGGTACGGTGAATGAATCGCGT  240
T36CA-V0       ------------------------------------T-----------------------  240
T36CA-ori      ------------------------------------T-----------------------  240

T36FL          GCTGATCGCACTAACGTTTCAGAAATTGTCGAATCGCATGTGAGCGACCGAGACAGGATG  300
T36CA-V0       ------------------------------------------------------------  300
T36CA-ori      ------------------------------------G----------------C-----  300
                                                   R93H
T36FL          AGCATCTTGTTGCGTAATAAGCGGATCCAAATTCCTTCGCTCTTACCTTGCGATAACTAG  360
T36CA-V0       ------------------------------------------------------------  360
T36CA-ori      ------------------------------------------------------------  360
```

(b)

```
T36FL          ATGCGAGCTTACTTTAGTGTTAATGATTACATAAGCCTTTTGGCTAAGGTCAGCGCTGTT   60
T36CA-V0       ------------------------------------------------G---------   60
T36CA-ori      ------------------------------------------------G------C-   60
                                                               G18S  A20V
T36FL          GTGGAACGTTTATGCGATCCCAGCGTAACTCTTGCGGAAGTGATGGACGAAATTAATGAC   120
T36CA-V0       ---------C--------------------------------------------------   120
T36CA-ori      ------------------------------------------------------------   120

T36FL          TTTAACTCGTTTCTCGCTTTAGTGCACTCTATGAAGTCAGACATGAACGGAGACCATCAG   180
T36CA-V0       ------------------------------------------------------------A   180
T36CA-ori      ----------------------------------------------G-------------A   180
                                                            D56N
T36FL          GATGGCCACCACGAGATGGGTGAACACAAGTCTCGGTTGTTATGCAACATAGAGGCGAAA   240
T36CA-V0       ------------------------------------------------------------   240
T36CA-ori      ------------------------------------------------------------   240

T36FL          TTGCGAGTACTTCTCGACATCATAAGACGTCGGTTCACTCGCGACAAGCTGCTCTGTACT   300
T36CA-V0       ------------------------------------------------------------   300
T36CA-ori      -C----------------------------------------------------------   300
               S81L
T36FL          AGCGCGACAGATGTCATGGGCTTCTTTGTAATGAGGTACATGAGTTCTAGCCACACCAGC   360
T36CA-V0       ----------------A-------------------------------------------   360
T36CA-ori      ------------------------------------------------------------   360
                               S107G
T36FL          TTCGAATCCGTAATGAGGACGGAGTTGAGGTTGGTGGTTAAGGCGGTACTGTCGGATTTA   420
T36CA-V0       ------------------------------------------------------------   420
T36CA-ori      ------------------------------------------------------------   420

T36FL          TCCCGCGCGCATAAACTGGATTTTAGCGAGCGAGCTTTTGCGGCTTATGGTATCCTTTTG   480
T36CA-V0       ------------------------------------------------------------   480
T36CA-ori      ------------------------------------------------------------   480

T36FL          CAAAAGGGTACTGTGTCGACCGTTTGCGGTCAGTTTGACATTAATTTAGTCTCTCCATCT   540
T36CA-V0       ------------------------------------------------------------   540
T36CA-ori      ------------------------------------------------------------   540

T36FL          TGCGTGTAG 549
T36CA-V0       --------- 549
T36CA-ori      --------- 549
```

**Figure S1.** Sequence comparison of the p13 and p20 coding regions between T36CA-ori and T36CA-V0. Nucleotide (nt) sequences of the p13 and p20 coding regions in T36CA-ori and T36CA-V0 were aligned with those of T36FL using the Clustal Omega program (https://www.ebi.ac.uk/Tools/msa/clustalo/). (a) The alignment of nt sequences of p13. (b) The alignment of nt sequences of p20. Nucleotide variants in T36CA-ori and/or T36CA-V0 are indicated in red. Non-synonymous nt variants are highlighted in blue; indicated below them are the resulting change in deduced amino acids (in bold).