**S1 Table. PCR primers used in this study**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Primer name: | | | Oligonucleotide sequences (5 ́→ 3 ́): | Annealing temperature: | |
| **Cloning of *ts2631* gene** | | | | | |
| Ts2631-nde-f | | CGGGGAATTCCATATGAGGATACTAGAACCATGGAA | | | 64.4 °C |
| Ts2631-bam-h-r | | CGCGGATCCTTACTGACCACCTCCCCCCT | | | 68.6 °C |  |
| **Site-directed mutagenesis of *ts2631* gene** | | | | | Codon change: |
| H30N\_F | CATTACGTTGTCCTGAATCACACGGCGGGGCCG | | | | CAC → AAT |
| H30N\_R | CGGCCCCGCCGTGTGATTCAGGACAACGTAATG | | | | CAC → AAT |
| Y58F\_F | GGTGGCCCCATATCGGTTTTCACTATCTGGTCTACCG | | | | TAC → TTT |
| Y58F\_R | CGGTAGACCAGATAGTGAAAACCGATATGGGGCCACC | | | | TAC → TTT |
| H131N\_F | GTGGGTACAAGGTTTTTGTTCAGTACAAAAAGCGCCTTA | | | | CAC → AAC |
| H131N\_R | TAAGGCGCTTTTTGTACTGAACAAAAACCTTGTACCCAC | | | | CAC → AAC |
| T137K\_F | GCCCAGGGCATTCTTTGGGTACAAGGTTTTTGTG | | | | ACA → AAA |
| T137K\_R | CACAAAAACCTTGTACCCAAAGAATGCCCTGGGC | | | | ACA → AAA |
| C139S\_F | CGCCCAGGGCTTTCTGTGGGTACAAGG | | | | TGC → AGC |
| C139S\_R | CCTTGTACCCACAGAAAGCCCTGGGCG | | | | TGC → AGC |

Primers for cloning of *ts2631* gene were design with use of Primer3plus software. Primers for site-directed mutagenesis of *ts2631* gene were design with use of QuikChange Primer Design Program available online at http://www.stratagene.com/qcprimerdesign. Underlined sequences indicate cleavage sites for NdeI and BamHI, respectively.