

Table S1. Primers for site-directed mutagenesis.

Primer Name	Sequence
I173N-F	5'- GCCAATTCGTAACCTAAACTTTATGACAAG-3'
I173N-R	5'- CTTGTCATAAAGTTTAGGTTACGAATTGGC-3'
N207D-F	5'- CGGTTGATACATTTGGAGACATTCCGCCAG -3'
N207D-R	5'- CTGGCGGAATGTCTCCAAATGTATCAACCG-3'
P209L-F	5'- CATTTGGAACATTCTGCCAGAAATGATTG -3'
P209L-R	5'- CAATCATTTCTGGCAGAATGTTTCCAAATG-3'
E211G-F	5'- CATTCCGCCAGGAATGATTGATTTCGG-3'
E211G-R	5'- CCGAAATCAATCATTCCTGGCGGAATG-3'
D255V-F	5'-GTGGGTTGGTGTGTTGGTATTCCGTTCCCAGG-3'
D255V-R	5'-CCTGGGAACGGAATACCAACACCAACCCAC-3'
N274S-F	5'-CGTGATTTTTATCAAAGTAATAAATTGG-3'
N274S-R	5'- CCAATTTATTACTTTGATAAAAATCACG-3'
E281D-F	5'- GGTAAAGGGTGATCTTGTGATTGCGGGACA-3'
E281D-R	5'-TGTCCGCGAATCACAAGATCACCCCTTAACC-3'
T324A-F	5'-CCATATTTCTAGCGCAGATAAACAATATG-3'
T324A-R	5'- CATATTGTTTATCTGCGCTAGAAATATGG-3'
Y328H-F	5'-CAGATAAACAACATGTATGTTTACCGACAGG-3'
Y328H-R	5'- CCTGTCGGTAAACATACATGTTGTTTATCTG-3'
K346E-F	5'-GGTGGAACAGCTGTAGAACAAACATATCCG-3'
K346E-R	5'- CGGATATGTTTGTCTACAGCTGTTCCACC-3'
Q40Q-F	5'- CGTGAACCAGAACCACAAGTAGGATTAACG-3'
Q40Q-R	5'-CGTTAATCCTACTTGTGGTTCTGGTTCACG-3'
F124F-F	5'-GAAATTTGATGATTTTGTGTTTGATTATATTGC-3'
F124F-R	5'- GCAATATAATCAAACACAAAATCATCAAATTTC-3'
D255D-F	5'-GTGGGTTGGTGATGGTATTCCGTTCCCAGG -3'
D255D-R	5'-CCTGGGAACGGAATACCATCACCAACCCAC-3'
Y264Y-F	5'-CCAGGTGAATCATACAGACAGTGGATTTCG-3'
Y264Y-R	5'- CGAATCCACTGTCTGTATGATTCACCTGG-3'