

Table S1. Primers used in this study.

Mutation Site	Primer Sequences (5' to 3')
S47A	F: GCTTTAGGCGATGCCTTGACGGAAGGAGTGGGGGA R: TCCTTCCGTCAAGGCATCGCCTAAAGCGACC
D221A	F: TTCATCGCGCCGAATTCATCCGAATGCCGCAG R: ATGAAATTCGGCGCGATGAAGCAATTCGTCGCGG
H224A	F: CGAATTTGCCCCGAATGCCGCAGGATACGAAC R: CATTCGGGGCAAATTCGTCGCGATGAAGCAAT