

Table S1 Forward primers used for site-directed mutagenesis.

Mutation	Forward primer
Q27H	CGTCATCGCAGATGTTCACTTTGCAGACTTAGAAGATGGC
F37A	GCAGACTTAGAAGATGGCTTTAATGCACAAGGAACCAGGCGG
F37Y	GCAGATCTAGAAGATGGCTTTAATTACCAAGGAACCAGGCGG
R43A	GGCTTTAATTTCCAAGGAACCAGGCGGGCATACTACAGACATAG
N110A	CATCATACATGGGGAGCTCATGAATTCTATAACTTCAGTAGAGAG
H111A	CATCATACATGGGGGAAACGCTGAGTTCTATAACTTCAGTAGAGAG
H111N	CATCATACATGGGGGAAACAATGAGTTCTATAACTTCAGTAGAGAG
L196A	CCAAATACGGAAGCGAATTCTCCTCAAGGACTTTCTGAGCCCCAG
L196F	GGAGCACAATCCAAATACGGAATTCAATAGCCCTCAAGGACTTTC
F210A	CAGTTTGTACAGGCTAATGGAGGATTCAGTCAAGAACAGCTAAAC
C253A	CCCGGACGCCTCTGACAATGTTGCCCTGGCCTGGAACCTACAG

The reverse primers were the reverse complements of those shown.