

Supplementary Table 26. Mutagenic primers used for mutagenesis.

Mutation	Forward	Reverse
N1081S	CCCAGTAGCCTGATTGTGCATTTTCAGTGAAGTCATAGGA	TCCTATGACTTCACTGAAATGCACAATCAGGCTACTGGG
V1092I	GAAGAGGGCATTGTTGGTTGTATATATCATGGGACTTTGTTG	CAACAAAGTCCCATGATATATACAACCAAATGCCCTCTTC
H1094Y	AGAGGGCATTGTTGGTTGTATATTATGGGACTTTGTTGG	CCAACAAAGTCCCATATAATACACAACCAAATGCCCTCT
N1100S	GTGTATATCATGGGACTTTGTTGGACAGTGTGGCAAGAAAA	TTTTCTTGCCATCACTGTCCAACAAAGTCCCATGATATACAC
G1102D	GACTTTGTTGGACAATGATGACAAGAAAATTCAGTGTGCTG	CAGCACAGTGAATTTCTTGTGCATCATTGTCCAACAAAGTC
H1106D	GTTGGACAATGATGGCAAGAAAATTCAGTGTGCTGTGAA	TTCACAGCACAGTCAATTTTCTTGCCATCATTGTCCAAC
R1170Q	TGGAGATCTTCGAAATTTTCATTCAAAATGAGACTCATAATCCAACGT	CAGTTGGATTATGAGTCTCATTTTGAATGAAATTCGAAGATCTCCA
L1195V	CTTCAAGTAGCCAAAGGCATGAAATATGTTGCAAGCAAAAAGTT	AACTTTTGGCTTGCAACATATTTTCATGCCTTTGGCTACTTGAAG
F1200I	ATATCTTGCAAGCAAAAAGATTGTCCACAGAGACTTGGC	GCCAAGTCTCTGTGGACAATCTTTTGGCTTGCAAGATAT
D1228N	GGTTGCTGATTTTGGTCTTGCCAGAAACATGTATGATAAAGAATAC	GTATTCTTTATCATAATGTTTCTGGCAAGACCAAATCAGCAACC
M1229V	TGATTTTGGTCTTGCCAGAGACGTGTATGATAAAGAATACTATAGT	ACTATAGTATTCTTTATCATAACAGTCTCTGGCAAGACCAAATCA
Y1230H	CAGAGACATGCATGATAAAGAATACTATAG	GCAAGACCAAATCAGCAAC
M1250T	AAAGCTGCCAGTGAAGTGGACGGCTTTGGAAAGT	ACTTTCCAAAGCCGTCCACTTCACTGGCAGCTTT
R1327C	ACCCTAAAGCCGAAATGTGCCATCCTTTTCTGAA	TTCAGAAAAGGATGGGCACATTTGGCTTTAGGGT
I1345T	ATCAGCGATCTTCTACTTTCACTGGGGAGCACTA	TAGTGCTCCCCAGTGAAGTAGAGAAGATCGCTGAT

All mutations were introduced using the QuikChange Lightning or QuikChange II XL Site-Directed Mutagenesis Kit (Agilent Technologies; 210519 and 200521), with the exception of the Y1230H mutation, which was introduced using the Q5 Site-Directed Mutagenesis Kit (NEB; E0552S). All constructs were confirmed by DNA sequencing.