

Supplemental Table 1

Primers used for site-directed mutagenesis

	Sequence (5'-3')
G30R	GATCCATTGCTGAAATG <u>AGGG</u> CCTTATGTCAGCTTG
A31T	CCATTGCTGAAATGGGG <u>ACT</u> TATGTCAGCTTGCTG
M44K	ATTGAAGGCA <u>AG</u> ATTCTTCTT
L50P	CTTAGTGA <u>CCA</u> TCCAGAAGG
S51A	AGTGAATTAG <u>CC</u> CAGAAGGCGT
S51D	AGTGAATTAG <u>AC</u> CAGAAGGCGT
K79D	GACAAAGAA <u>GAT</u> GGATATATT
Y81D	GAAAAAGGAG <u>AT</u> ATTGATTG
D83A	CAAAGAAAAAGGATATATT <u>GCT</u> TTGTCAAAAAGAAGAGTTTC

The mutated residues are shaded and mutant codons are underlined.