

SUPPLEMENTAL TABLE 1:
Primers generated for site-directed mutagenesis

Mutation	Primer sequence
G1013R	5' -GTGTCCGAGAGGACCC A GATTTGCCACAAAAG-3' 3' -CACAGGCTCTCCTGGG T CTAAACGGTGTTTTTC-5'
C1032Y	5' -CTTCAAAGATATCAATGAG G GCAAGATGATACCCAGCC-3' 3' -GAAGTTTCTATAGTTACT C CGTTCTACTATGGGTCGG-5'
I1048T	5' -CAAGTGCAGAAACACC C TGGCAGCTTTAAGTGC-3' 3' -GTTCACGTCTTTGTGG T GACCGTCGAAATTCACG-5'
C1182S	5' -GGAAGTATCAGTGTGCCT C CAACCCTGGCTACCATTC-3' 3' -CCTTCATAGTCACACGG A GGTTGGGACCGATGGTAAG-5'

The nucleotide exchanges are depicted in bold letters within the primers.