

Table S1. Sequence of the complementary primers used to build the Q β site-directed mutants

Mutant	Primer sequences ¹
Q β _{G1312A}	5'TATCTTTTTATTAACCCAACGCATAAAGCGTTGAACTTTGGGTC3' 5'GACCCAAAGTTTCAACGCTTTATGCGTTGGGTTAATAAAAAGATA3'
Q β _{G1494A}	5'GGAGAAGCGTGTTACCATTTCGGTATCTCAGCC3' 5'GGCTGAGATACCGAAATGGTAACACGCTTCTCC3'
Q β _{U1665C}	5'CCGATGAGGAACGAGCTCTTGTTTCGTACAGAGCTT3' 5'AAGCTCTGTACGAACAAGAGCTCGTTCCTCATCGG3'
Q β _{A1930G}	5'TAATGCTGTTGAACTCCGGCCTCGCGAATTTGATG3' 5'CATCAAATTCGCGAGGCCGGAGTTCAACAGCATTAA3'
Q β _{C2001U}	5'CGTGATTGGGATTCTCGGTTTAGTTATACCACGTTCC3' 5'GGAACGTGGTATAACTAAACCGAGAATCCCAATCACG3'
Q β _{G2223A}	5'TCACGCCGATGGCGTGATAATTGGCTTTTGGC3' 5'GCCAAAAGCCAAATTATCACGCCATCGGCGTGA3'

¹The nucleotide shown in black corresponds to the mutated position to be introduced in the Q β genome