Supporting information

S1 Table. List of PCR primers used in mutagenesis

Site mutation	Mutation primer sequence
T33A/Y35F	P1: CTCTGATCATCAACGCCTTCTTCTCCAACAAGGAGA
	P2: TCTCCTTGTTGGAGAAGAAGGCGTTGATGATCAGAG
T33D	P1: CTCTGATCATCAACGACTTCTACTCCAACAAG
	P2: CTTGTTGGAGTAGAAGTCGTTGATGATCAGAG
T33E	P1: CTCTGATCATCAACGAGTTCTACTCCAACAAG
	P2: CTTGTTGGAGTAGAACTCGTTGATGATCAGAG
T87A	P1: AAGAGCGCACGCTGGCCATCATCGACACC
	P2: GGTGTCGATGATGGCCAGCGTGCGCTCTT
T87E	P1: AAGAGCGCACGCTGGAGATCATCGACACCGG
	P2: CCGGTGTCGATGATCTCCAGCGTGCGCTCTT
D90A	P1: CGCTGACCATCATCGCCACCGGCATCGGCAT
	P2: ATGCCGATGCCGGTGGCGATGATGGTCAGCG
G94D	P1: TCGACACCGGCATCGACATGACCAAAGCTGA
	P2: TCAGCTTTGGTCATGTCGATGCCGGTGTCGA
T181A	P1: ATCAATTGGACGTGGTGCCAAAGTCATTCTCCAC
	P2: GTGGAGAATGACTTTGGCACCACGTCCAATTGAT
K206R	P1: GGAAGTGGTGAAGAGGCACTCTCAGTT
	P2: AACTGAGAGTGCCTCTTCACCACTTCC
K287R	P1: GCTGAATAAGACCAGGCCGATCTGGACC
	P2: GGTCCAGATCGGCCTGGTCTTATTCAGC
K287Q	P1: GCTGAATAAGACCCAGCCGATCTGGACC
	P2: GGTCCAGATCGGCTGGGTCTTATTCAGC
K608R	P1: GGAGAGGATCATGAGGTCTCAGGCTCT
	P2: AGAGCCTGAGACCTCATGATCCTCTCC