

Additional file 9. Primer sequences for site-directed mutagenesis.

substitution	name	Sequence
Asn ²⁰⁸ → Gln	N208Q-F	ACGTTGAGGGCTGGCAGGCCACCAGTGCCAACGCG
	N208Q-R	CGCGTTGGCACTGGTGGCCTGCCAGCCCTCAACGT
Asn ²⁰⁸ → Asp	N208D-F	ACGTTGAGGGCTGGGACGCCACCAGTGCCAACGCG
	N208D-R	CGCGTTGGCACTGGTGGCGTCCCAGCCCTCAACGT
Asn ³²⁶ → Gln	N326Q-F	CAGAATGGGAAGGTCATCCAGCAATCCTCCGTCAAGATCCCC
	N326Q-R	GGGGATCTTGACGGAGGATTGCTGGATGACCTTCCCATTCTG
Asn ³²⁶ → Asp	N326D-F	CAGAATGGGAAGGTCATCCAGGACTCCTCCGTCAAGATCCCC
	N326D-R	GGGGATCTTGACGGAGGAGTCCTGGATGACCTTCCCATTCTG
Asn ⁴⁴² → Gln	N442Q-F	CATCAAGTTCGGCGACCTCCAGACCACGTACACCGGCACC
	N442Q-R	GGTGCCGGTGTACGTGGTCTGGAGGTCGCCGAACTTGATG
Asn ⁴⁴² → Asp	N442D-F	CATCAAGTTCGGCGACCTCGACACCACGTACACCGGCACC
	N442D-R	GGTGCCGGTGTACGTGGTGTGCGAGGTCGCCGAACTTGATG