

Table I. Oligonucleotide sequences of forward primers used for the generation of mutants of CP12

E18A	CGCCGTGAAG <u>GCGG</u> CTGAGGACG
E18K	CGCCGTGAAGA <u>AAGG</u> CTGAGGACG
D30A	GCACCTCCGCG <u>GCC</u> TGCGCCGTGGC
D30K	GGGCACCTCCGCG <u>AAA</u> TGCGCCGTGGCCTG
C23S	GCTGAGGACGCT <u>TCCG</u> CCAAGGGTACCTCC
W35A	CTCCGCCGTGGCC <u>GCG</u> GACACCGTTGAGG
W35F	CTGCGCCGTGGCCT <u>TCG</u> ACACCGTTGAGG
E39A	GCCTGGGACACCGTT <u>GCGG</u> AGCTCAGCGCTGC
E39K	GCCTGGGACACCGTT <u>AAGG</u> AGCTCAGCGCTGC
E40A	GCCTGGGACACCGTTGAGG <u>GCG</u> CTCAGCGCTGCTGTCTCG
E40K	GCCTGGGACACCGTTGAGA <u>AAG</u> CTCAGCGCTGCTGTCTCG
E3940A	GCCTGGGACACCGTT <u>GCGG</u> GCTCAGCGCTGC
E3940K	GCCTGGGACACCGTT <u>AAGAAG</u> CTCAGCGCTGC
H47N	CTCAGCGCTGCTGTTTCGA <u>ACA</u> AAGAAGGATGCCGTC
H47L	CTCAGCGCTGCTGTCTCG <u>CTT</u> AAGAAGGATGCCGTC
K49L	GCTGTCTCGCACAAGCTG <u>GATG</u> CCGTCAAGGCC
K49E	GCTGTCTCGCACAAGG <u>AGG</u> ATGCCGTCAAGGCC
C66S	CCCTGGAAGCTTTCT <u>TCCA</u> AAGGATGCCCCCG
D68A	GGCTTTCTGCAAG <u>GCTG</u> CCCCCGATGCCG
D68K	GAGGCTTTCTGCAAGA <u>AAGG</u> CCCCCGATGCCGATG
D71A	CAAGGATGCCCCCG <u>CTG</u> CCGATGAGTGCC
D71K	GCAAGGATGCCCCCA <u>AGG</u> CCGATGAGTGCCG
E74A	CCCCGATGCCGAT <u>GCGT</u> GCCGCGTCTACG
E74K	CCCCGATGCCGATA <u>AAGT</u> GCCGCGTCTACG
Y78F	GATGAGTGCCGCGTCT <u>TCG</u> AGGATTAAGGATCC
Y78S	GATGAGTGCCGCGTCT <u>TCCG</u> AGGATTAAGGATCC
E79A	GAGTGCCGCGTCTACG <u>G</u> GATTAAGTTCGAGGATC
E79K	GAGTGCCGCGTCTACA <u>AGG</u> ATTAAGTTCGAGGATC
D80A	GCACCTCCGCG <u>GCC</u> TGCGCCGTGGC
D80K	GGGCACCTCCGCG <u>AAA</u> TGCGCCGTGGCCTG