

**Table S1** Primers used in this study for construction of mutant strains.

Primer name*	Sequence (5'→3')
fmqA1	GCTGTAATACGACTCACTATAGGGAATATTCACACGCAGAGGAACCGTGG
fmqA2	GCCTGAGTGGCCATCGAATTCCTGCAGCCCCGAACCTCCATCTGCCGCC
fmqA3	GGGGGGGGCCCGGTACCCAGCTTTTGTTCCTCAATTATAGGATCAGGACTCG
fmqA4	CATAACTAATTACATGATGCGGCCCTCTAGGACCCCTTATTCGGTAGCC
fmqAc FW	TCCCTTTATTGTTGGAGTACTAGACC
fmqAc REV	GAACAGTAGAGCTCTCTTTCAGGC
ptrA-for2	GGGCTGCAGGAATTCGATGG
ptrA-rev3	TACTCAGCACACTCGCGCTG
gpdA_FW_VV	CTTGTTGAATTTAGAACGTGG
hgroSTOP_RE_VV	CTATTCCTTTGCCCTCGGA
mpkA 5' ORF FW	CGGCTACACACGACACTC
mpkA 3' REV	GACTGTCGCAGAAATCCGCTT
mpkA 5F	CTCATTCCTTGTTCTGATGCG
mpkA 600 ups	GAGCCCTGACTTCACTGCA
linker 3×HA REV	CTGTCTGAGAGGAGGCACTGA

\* For primers location refer to Figures S1 and S2.