

Table S1

Primer name	Primer sequence 5' → 3'
PecA-pMV-Fw	CCGGAGGAAAGAATCCATGTGTCGCTTCTGGTGGTG
PecA-pMV-Rv	CGACATCGATAAGCTTCTAAGGGTTGTTGAAGACCGTTGTG
Rv1983-Fw	AAAGAATCCATGTGTCATTTCTGGTCGTGGT
Rv1983-Rv	TTTCTCGAGGGATGATCAAAGACTGTTGTCCC
PecA-pET-Fw	AGGAGATATACCATGTGTCGCTTCTGGTGGTGG
PecA-pET-Rv	GGTGGTGGTGCTCGAGCAAGTCCTCTCCGAAATCAGCTTT
PecA-A89D	TCGGCCGGGTCATACGCGGACGCCGAGGCCAGTCCGTG
PecA _{A89D} -A88E	CCGGGTCATACGAGGACGCCGAGGC
PecA-A84D	CTGAACTCATCGGACGGGTCATACGCG
MMAR_2933 LF	TTTTTTTTCACAAAGTGGCCGACACTCTTGATGTTGA
MMAR_2933 LR	TTTTTTTTCACTTCGTGGCTGATCGCCTGGTATTCT
MMAR_2933 RF	TTTTTTTTCACAGAGTGACTACCAGCCGACGGTCATT
MMAR_2933 RR	TTTTTTTTCACCTTGTGCGTGGCTTCACTGCCTACTT