Table S1. Primers used in this study.

Primers	Sequence (5'-3')
General PCR for cloning	
pGEN-arcA-F	CCGGAATTCATTGCCACTCTTCTTGACC
pGEN-arcA-R	CGCGGATCCTGATGTTTGTGACCCGTA
Pet28a-arcA-F	CATGCCATGGATGCAGACCCCGCACATTCT
Pet28a-arcA-R	CCCAAGCTTATCTTCCAGATCACCGCAGA
For Deletion[a]	
Del-arcA-F	GGCAGGTCAGGGACTTTTGTACTTCCTGTTTCGATTTAGTT GGCAATTTAGGTAGCAAACgtgtaggctggagctgcttcga
Del-arcA-R	AGGTAGAAAAATAAAAACGGCGCTAAAAAGCGCCGTTTT TATTGACGGTGGTAAAGCCGAcatatgaatatcctccttag
Del-cheA-F	GAAAGCCAGAATGAGCCAGTAAGCGCCCTGGAAAAACCT GAGGTTGCACCACAGGTCAgtgtaggctggagctgcttcga
Del-cheA-R	GCTGGCCAGCTTTGTTACATTCGTCATACCGGTCATATTGT TACCTTTTTACTCATTCAGcatatgaatatcctccttag
Del-cheA&W-F	GAAAGCCAGAATGAGCCAGTAAGCGCCCTGGAAAAACCT GAGGTTGCACCACAGGTCAgtgtaggctggagctgcttcga
Del-cheA&W-R	CCGATGCGCAGATCATCGGGTTCATTTCAATTGAGGAAAT CGGGAGAATTACGCCACTTCcatatgaatatcctccttag
Del-motA&B-F	CGTGTTAACGCCTGACGACTGAACATCCTGTCATGGTCAA CAGTGGAAGGATGATGTCgtgtaggctggagctgcttcga
Del-motA&B-R	TCGCTTATATCCATGCTCACGCTGTCACCTCGGTTCGGCTG ATGGCATTGTGGGAACACTcatatgaatatcctccttag
Del-citCEFXG-F	TCCTTAGGATGTATAGCGAAAGGAGAAAAAGATATACCTC GATCGCCCCCTTTCTCCCAAgtgtaggctggagctgcttcga
Del-citCEFXG-R	CTAAAGACATACGGGTTCTCCGAAAATTAATATTTCCAAA TTTATCAAGTGCTTAAATAAcatatgaatatcctccttag
Del-flgBCDEFGHIJKL-F	ATAACGCGCGCGTAAAGGCATTTAAGCTGATGGCAGAATT TTGATACCTGCGGAGGAGAgtgtaggctggagctgcttcga
Del-flgBCDEFGHIJKL-R	CACCTTCATCTGCATTTCAAAACGCCGTGCGCTGGCAATC ATGTCGCTCATTGCCGCAACcatatgaatatcctccttag
Del-fliCD-F	TTGTGCATAGGCCTGGGTGCCTTTTGCCGCGTACATGACCT GTCTCCCGATGAATATTGAgtgtaggctggagctgcttcga
Del-fliCD-R	AGCACAGCGCACCAGGCAATTTGGCGTTGCCGTCAGTCTC AGTTAATCAGGTTACGGCGAcatatgaatatcctccttag

Primers for reverse transcription qPCR

tus-qPCR-F	CGATAACCTTTCGCAAGCAGCGTT
tus-qPCR-R	GGCAAATGACGATGCACCCATTCA
citC-qPCR-F	AATGATTTGAGCGTTGACACC
citC-qPCR-R	TAATATTTCCGGCAATTCCAC
cheA-qPCR-F	CAATGCCATCAGCCGAACCGAG
cheA-qPCR-R	CCATATCAGCCAACAGTTCGT

cheW-qPCR-F	TTTGCCGTGACGCTTTCAACC
cheW-qPCR-R	CGCCATCTCTTCGCTGT
CheA&W-qPCR-F	AACAACGTATGGCGAACACC
CheA&W-qPCR-R	GGCCAGCTTTGTTACATTCGTC
motA-qPCR-F	GCTTTCTAATCTGAACGGTTACGC
motA-qPCR-R	TCCAGCTCAATAAACGACGGAC
motB-qPCR-F	TCCCAACCGAATTAGCCTCTCG
motB-qPCR-R	CAGAAAGCTCCCAGTTGCTGT
motA&B-qPCR-F	AAAATCCGCAACAACAGACGAC
motA&B-qPCR-R	GGCATAAGCAATCTTCCACGAT
flgB-qPCR-F	GCAGCAAACATCGCCAATGCC
flgB-qPCR-R	GTTGCATCCCGTCCACGTT
grxA-qPCR-F	ACAACAAAAGGCAGGTAAACCC
grxA-qPCR-R	GTCCAGATTCTCTTTCGCCCAT
oppD-qPCR-F	TGAACTCAATAAACTGCGAGCTG
oppD-qPCR-R	TTCCATCAACTGCTCACCGAC
oppB-qPCR-F	GAACCGTGACTATTCCTTAGTGT
oppB-qPCR-R	TAACCGCATATAGCACATCGACA
flgK-qPCR-F	GGCGTCACCTAACAATCTGCT
flgK-qPCR-R	TGAACGCTGACTTCTACGCCAA
glcF-qPCR-F	TACGATCTCTCACGGTTAATGGC
glcF-qPCR-R	TCGCGGTAACACTTTCATCGAG
lldR-qPCR-F	AATGATGGCGCACCTTAGCTT
lldR-qPCR-R	TCCCTCGAATGCTCATTATGGTC
yneI-qPCR-F	TTGTGCTTAACGATGCCGAT
yneI-qPCR-R	TAAATGCCGAAGCAATTCCCT
fliC-qPCR-F	CCAGTAGCTCCGTTAATCCCT
fliC-qPCR-R	AGTTTTGCTCAGTACACCGGAA
fliD-qPCR-F	CCTGACCAGTTGGCTTTCGAC
fliD-qPCR-R	ACGAGGTCATTAAAACGTCCAGT

Primers for checking motA/motB/cheA operon and PCR products for gel mobility shift assay

MotA&B1-F	TATCGCCGTTGAGTTTGGTC
MotA&B1-R	CGGGAATTGGGCTTTCACTA
motB&cheA-F	CCAGAATGAGCCAGTAAGCG
motB&cheA-R	GATTGATAATGTCGGTGTTGAGTT
CheA&W1-F	GCGTGGCACTGATTGTTGAT
CheA&W1-R	TGTGAGATATTCGGTTGAAAGC
M-FGel shift-F	TTGCCGGTGCAGGGATTGGG
M-FGel shift-R	TGCGTGGGTAGCTGGCGAAG

- Underlined are restriction cutting sites;

- Capital letters represent homologous fragments of the deleted genes.