

## Supplementary Table 1: Primer used in this study

### In-frame deletions

FliF-I-fw-SacI	GCAGAGCTCATCATTAAGTCTAAGCGAGTGTTTTTC
FliF-I-rv-PstI	CGTGCTGCAGTGGTTACAAGACAATGGCTGAG
FliF-II-fw-PstI	GTTCTGCAGTACGCCGATTTATGTTCTTGCTGG
FliF-II-rv-NcoI	GAGTTCCATGGTCAATAACTCGACGATGAGGAG
FliF-check-fw	AATGCCAAGGCAGCCGTAAG
FliF-check-rv	CCACCTTGACCTGCGAATTG
MotX-I-fw-AgeI	CTATACCGGTCCAGACCGTAACGAGACGATGATTTTAGT
MotX-I-rv-EcoRI	CACGAATTCTGCACGCGCTTCAATATCTTGTACTAATTG
MotX-II-fw-EcoRI	AATGAATTCACCGATGAGGCGACGAAGAAAAAAGCCTTA
MotX-II-rv-NcoI	CTACCATGGTTTTAGGTAAGCCGTAGCTTTGACCGCGGGT
MotX-check-fw	GAAGGTTATGAGCAGGTCACTCCTGTTTATG
MotX-check-rv	CATTCCGACCTTCTGCGCCAATACTTTATC
MotY-I-fw-SacI	CTTGAGCTCACAGCGTTCGATAGCTTTACTGAC
MotY-I-rv-PstI	TAACTGCAGTTTTTCGCCACATAGCCCTTACTC
MotY-II-fw-PstI	GTCCTGCAGAGCAAACCGCTCTAAATCAAACC
MotY-II-rv-NcoI	GTTCCATGGGATGAAGCTATCATGGGTCTGAG
MotY-check-fw	TCCAGCCAAAGTTGCAGTATC
MotY-check-rv	TTTGTTTGCCTGATCTGCTG

### Amplification and cloning of *motY* for sequencing

seqMotY-fw-Bam	CTAGGATCCGTCATGTTTGATTGCTGGTTTTATGCG TTC
seqMotY-rv-Xho	AGCCTCGAGAAAAGACAATGCCAAGTCAACAGACTT
M13R	CAGGAAACAGCTATGAC
M13F	GTAAAACGACGGCCAG

### Cloning *motX* and *motY* for complementation

motX-fw-BamHI	TGGATCCGAGTCAACTTTCGGTGCGACC
motX-rv-EcoRI	CGAATTCTCAACGGTTCGCAAGTGCTC
motY-fw-BamHI	TGGATCCCGCATCGGTTTGAGAGTTGAAGC
motY-rv-(EcoRI)	GGTTTAGTCATCAGACCTACAGAGC

### Amplification of internal fragments for probing *motX* and *motY* in Southern analysis

motX-I-fw	AAGTCTTAAAACAGCCCCTATATCAG
motX-I-rv	AATACATTGTTATATAACCAGTTATAGGCC
motY-I-fw	ATTTTATGCGTTCAGCAACTGC
motY-I-rv	ATTCGGACAACAACCCTGCGG

**Construction of pJP5603-mCherry, pJP5603::motX-mCherry, pJP5603::motY-mCherry**

mCherry-fw-BamHI	AAAGGATCCGGAGGAGGCGTTTCCAAAGGGGAAGAGG ACAATATG
mCherry-rv-SalI	GCAGTCGACTTATTTGTATAACTCATCCATAC
motX-C-fw-EcoRI	TTGGAATTCGTCAAACAGGATGAGTGCCAATTAG
motX-C-rv-BamHI	GACGGATCCACGGGTTTCGCAAGTGCTC
motY-C-fw-EcoRI	GATTGAATTCAGCTTGGTCAATGCTAAACGAG
motY-C-rv-BamHI	GTTTGGATCCGAGCGGTTTGCTAATTCGGAC