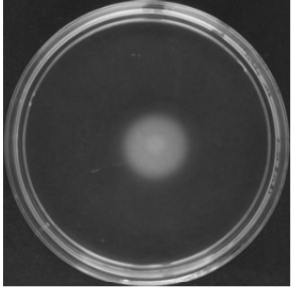


Figure S1. Motility of Pto *fleQ* and its complemented strain.

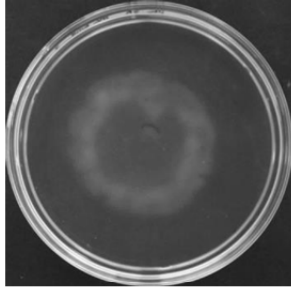
Top panel. Swimming and surface motility assays were performed with the indicated strains and pictures were taken 48 hours and 24 hours after inoculation, respectively. Low panel. Transmission electron micrographs taken from negative staining preparations to visualize flagella. All experiments were performed at least three times.

DC3000
(pBBR1MCS-5)

swimming

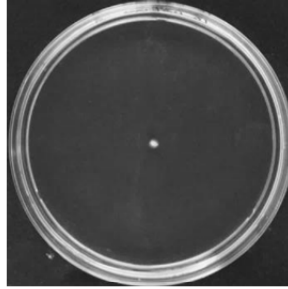


surface motility

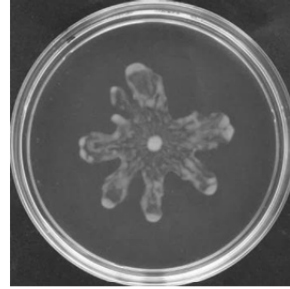


fleQ
(pBBR1MCS-5)

swimming

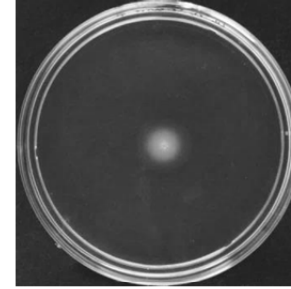


surface motility



fleQ
(pBBR1MCS-5::*fleQ*)

swimming



surface motility

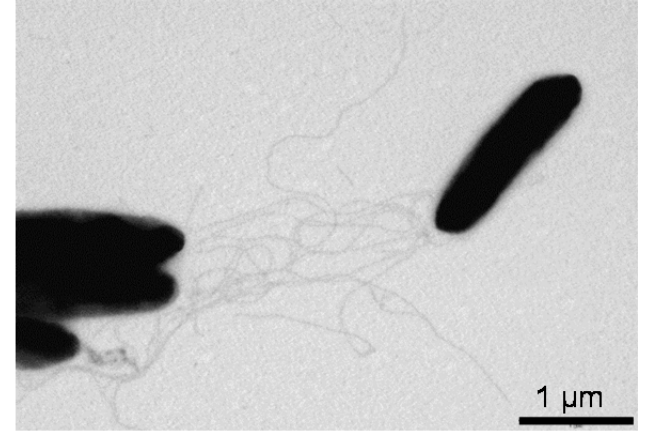
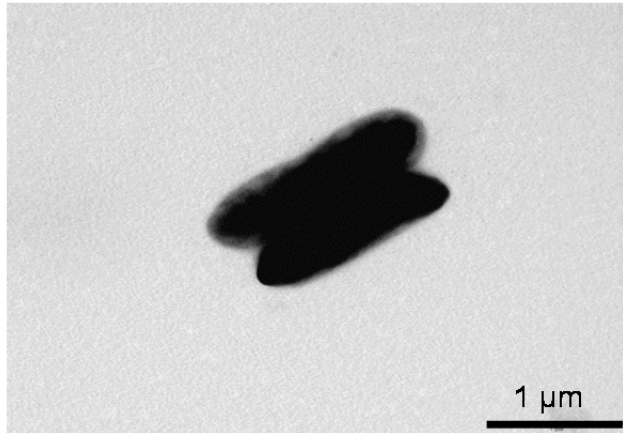
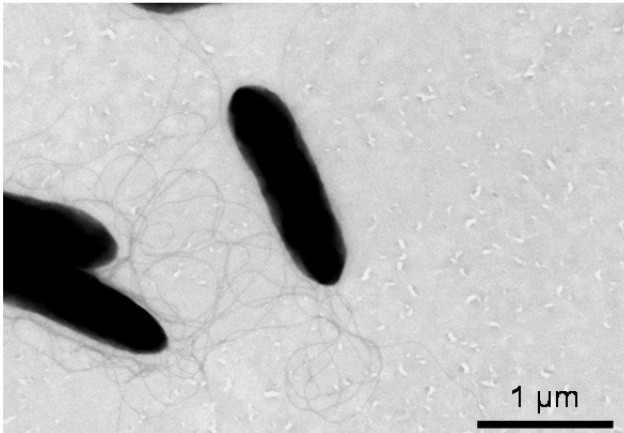
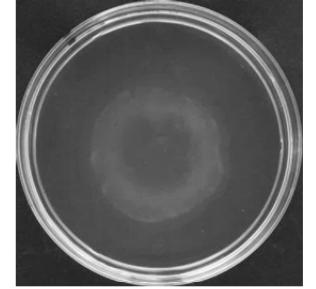


Figure S2. Nucleotide sequence of the *flhB-flhA* intergenic region.

The -12 and -24 regions of P_{flhA} are shadowed, the +1 and the direction of transcription are indicated by an arrowhead, the stop codon of *flhB* and the coding sequence of *flhA* are shown in bold and the predicted site for FleQ binding (Baraquet *et al.*, 2012; Jyot *et al.*, 2002) is underlined.

flhB

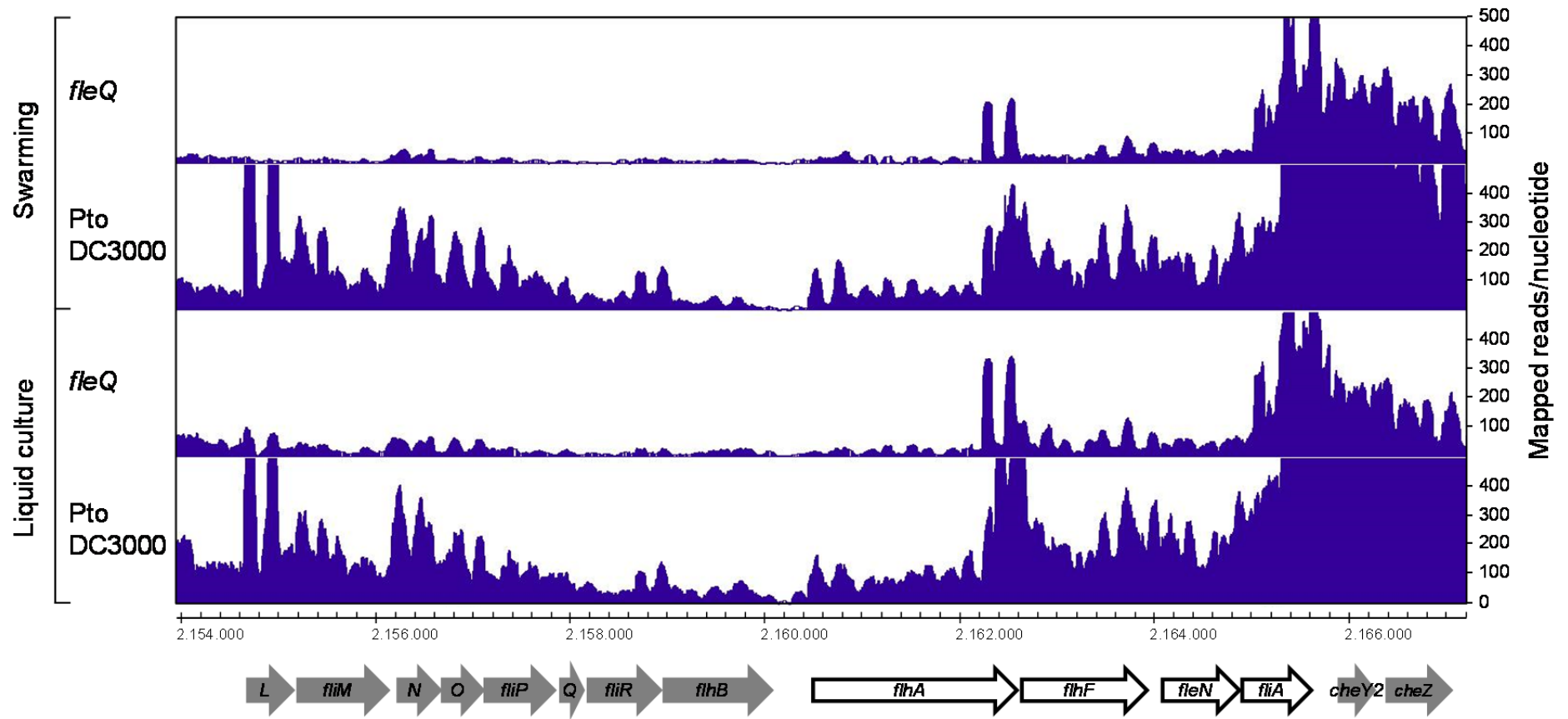
TAGCCTTCAGTGGCTGTCATAAAGTTGCCTTAGCTCTCTTCCAACGCTCTGGCGTGCGCCTTTAAATGTACGGCGCGGGCGCAG
ATCTGTGACGCGCAGCGTCACGACAGGCATTCCCATGCTGGAGTGGTAGGAACGATAGGTGTCCGGAAGAACACTATGGTGGC
CCATGCTCCGCGTGGGCATGCCGTTCTGGACGCTTTGCGTCCGCTCTTTAGTGTGCGCAGCGCGAGGTTCTCTGGCTTCACTG
ATCACCTCGTCTTGCGCAATTTCTACCTCTAAAGCCTTGCCGGCACTGGCTTTGTAAAAGTTGGACAGCTTTTTGCAATAAGG
TCGATACAGGTCGCCATCGGCGTCAATGTTTTGATCTAGTGCGCAGGTAACGAATC**GTGGATCGCTCTCAATTACTCAGT**

●----->

flhA

Figure S3. Mapped RNA reads in the *flhA-fljA* region.

RNA was obtained from Pto DC3000 and *fljQ* grown in swarming conditions and liquid cultures (MMR at 20°C). Drawings are images from IGB software showing reads in several genes surrounding *flhA*. Genomic coordinates denote the position in kb of the Pto DC3000 genome and annotated ORFs are shown as arrows. The scale (counts) indicates the number of mapped reads per nucleotide position.



References

1. **Baraquet, C., Murakami, K., Parsek, M.R., Harwood, C.S.** 2012. The FleQ protein from *Pseudomonas aeruginosa* functions as both a repressor and an activator to control gene expression from the *pel* operon promoter in response to c-di-GMP. *Nucleic Acids Res* **40**:7207-7218.
2. **Jyot, J., Dasgupta, N., Ramphal, R.** 2002. FleQ, the major flagellar gene regulator in *Pseudomonas aeruginosa*, binds to enhancer sites located either upstream or atypically downstream of the RpoN binding site. *J Bacteriol* **184**:5251-5260.