

Supplementary Material

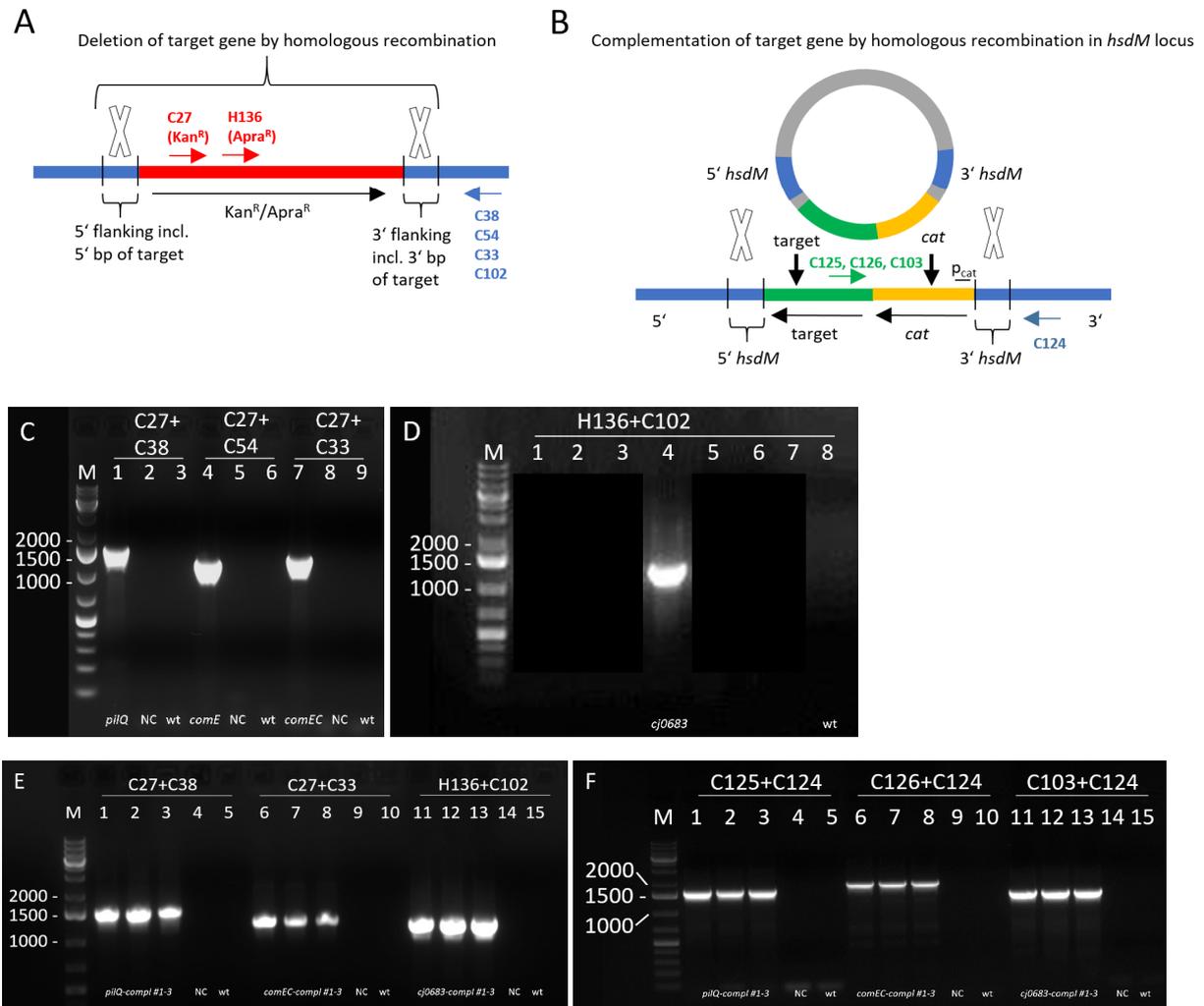


Figure S1. PCR results of successful allelic exchange of mutant strains used in the study. **A**, Cloning strategy for construction of deletion mutants and **B**, their complemented strains. Kan^R, kanamycin resistance cassette; Apra^R, apramycin resistance cassette; *cat*, chloramphenicol resistance cassette including the promoter (*p_{cat}*). Flanking regions include 6 to 123 bp of the respective target gene. PCR fragments were separated on a 1 % agarose gel (**C-E**). Lanes are numbered above and annotated below with the respective mutant name, wt (wild type), NC (negative control) or M (1 kb DNA ladder). Other non-relevant lanes are covered by black boxes. **C**, PCR results for verification of successful deletion of *pilQ* (C27+C38), *comE* (C27+C54), and *comEC* (C27+C33). **D**, PCR results for verification of successful deletion of *cj0683* (H136+C102). **E**, PCR results for verification of successful deletion of the target gene at its native location in the complemented strains *pilQ-compl* (C27+C38), *comEC-compl* (C27+C33), and *cj0683-compl* (H136+102); three clones each are depicted (#). **F**, PCR results for verification of successful integration of the target genes in the complemented strains *pilQ-compl* (C125+C124), *comEC-compl* (C126+C124), and *cj0683-compl* (C103+C124) in *hsdM*; three clones each are depicted (#).

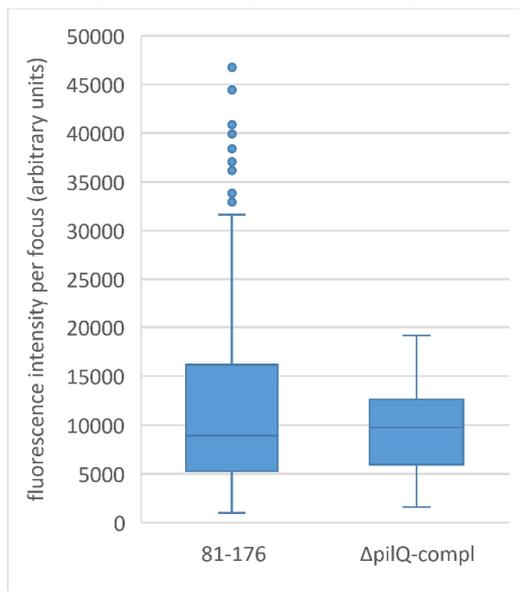


Figure S2. Median DNA amounts imported by $\Delta pilQ$ -compl (n=27) were comparable to the wild type (n=568). The boxplot length corresponds to the interquartile range (IQR; 50 %) of data, the horizontal bar indicates the median value; whiskers represent $1.5 \times$ IQR or the maximum/minimum value of the dataset; dots, outliers.

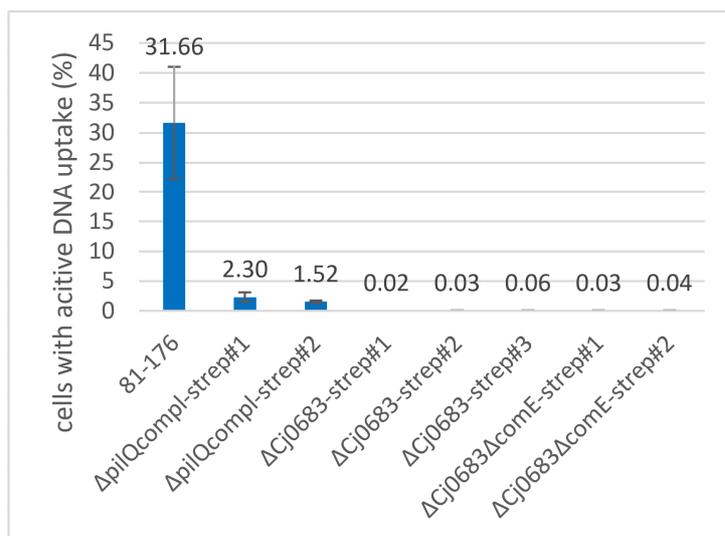


Figure S3. Successfully transformed mutant strains $\Delta pilQ$ -compl, $\Delta Cj0683$, and $\Delta Cj0683\Delta comE$ (name extension “-strep”) displayed similar fractions of competent cells as their respective parental strains. Fraction of cells with functional DNA uptake after incubation with Cy3-labelled *C. jejuni* DNA is depicted. #, clone number. Results of three independent experiments are shown.

Table S1. Strains used in this study.

Strain	Reference	Species	Description
81-176	[31]	Cj	wild type strain
NCTC 11168	[35]	Cj	wild type strain
81-176 Δ <i>pilQ</i>	This study	Cj	Mutant strain lacking of the outer membrane pore PilQ (=CtsD=Cj1474c), <i>pilQ</i> ::Kan ^R
81-176 Δ <i>comE</i>	This study	Cj	Mutant strain lacking ComE (=Cj0011c), <i>comE</i> ::Kan ^R
81-176 Δ <i>comEC</i>	This study	Cj	Mutant strain lacking the inner membrane channel ComEC (=Cj1211), <i>comEC</i> ::Kan ^R
81-176 Δ <i>cj0683</i>	This study	Cj	Mutant strain lacking the periplasmic protein Cj0683, Δ <i>cj0683</i> ::Apra ^R
81-176 Δ <i>pilQ</i> -compl	This study	Cj	Complemented strain of <i>pilQ</i>
81-176 Δ <i>comEC</i> -compl	This study	Cj	Complemented strain of <i>comEC</i>
81-176 Δ <i>cj0683</i> -compl	This study	Cj	Complemented strain of <i>cj0683</i>
DH5 α -pSB3021	[37]/this study	Ec	Suicide vector for integration of target gene in <i>hsdM</i> for complementation
J99	[32]	Hp	wild type strain

Cj *Campylobacter jejuni*; Ec *Escherichia coli*; Hp *Helicobacter pylori*

Table S2. Oligonucleotides used in this study.

Name	Sequence (5'-3')
C27	GGACATGATGCTATGGCTG
C29	TTGGATCCGGTTGGAATTTTAGCTGCAG
C30	CACCCGGGTACCGAGGAGAAAAATAAATAATGAAATTCITTTAAAAG
C31	TTTTAGTACCTGGAGGGAATAATGGAACATAATCCATATCCATTTTG
C32	TTTGTCGACCCAACAACTTTAGATGATTATAAAAATAG
C33	GCAACAAGATGTTGTTGCTAC
C34	TTGGATCCGCAATAAAAAAGACGCTCAAC
C35	CACCCGGGTACCGAGCGTTAATACTGATATCAAAAAGACG
C36	TTTTAGTACCTGGAGGGAATAATGGATAGCGTAAATGCTCCAAGTC
C37	TTTGTCGACCTTAAATTTCTTGAGAAATTTTTTG
C38	GCACCGCTTAACTTCTCTAG
C44	TTGGATCCCATGCAAGAGCAGAATTTAAAG
C45	CACCCGGGTACCGAGAAAATAGTAATTTTTTCATTTTCTTATCC
C46	TTTTAGTACCTGGAGGGAATAATGGATATCACAATAGAATAAAAAGGGC
C47	TTTGTCGACTTTTGTGCCATAGGCTTTG
C54	TTGAATCTTTTGTGCCATAGGCTTTG
C98	GTTGCGAATTCATGGCTTCTGTTGATCAGG
C99	CGTATTGCATGACATTGCACCTCCACCGTTCAGTTTCATTTGTCGGGAGTTC
C100	CGGAGAACGAGATGCAAAGATCTGATATAAGATATTATGAACCTG
C101	GGTCTGAATTCTAAAGCTTGCTTACCCTGTTT
C102	TAAAGATGGGGTTGCAGAAC
C103	AGATAATGCGCAAAACAATC
C113	GTACAGCCATGGGAATTCAAAAGAGCATAAAGGCTTAAAATGATAAGATTAATATTAATTAATTAACATTCTTTTTTG
C114	ATGATCCTCGAGGAATTCCTTACTCATAATGCTTAAATCCTAGATCTTTAAG
C115	GTACAGCCATGGGAATTCAAAAGAGCATAAAGGCTTAAAATGTCTCTATGGAATTCITTTTCTTACTC
C116	ATGATCCTCGAGGAATTCCTAAATCACAATCATAATGAAGGG
C117	GTACAGCCATGGGAATTCAAAAGAGCATAAAGGCTTAAAATGAACAAAGCTTTTACTCTGCTTG
C118	ATGATCCTCGAGGAATTCCTTATATCAGATCTTTGCATCTAGAACTTCC
C124	ATTGACGCTTTTGGAGAATG
C125	TAGGCATTTTACTCAATATCTTGCC
C126	GCAATTAGCGGTTATCACATAG
H11	GCAGCTCCATCAGCAAAAGGG
H12	TCCAACGTCATCTCGTTCTCCG
H13	GCTCGGTACCCGGGTGACTAAC
H14	TCCCCGGGTCATTATCCCTC
H136	GAGCAGATCATCTCTGATCC