Supplementary Materials

Table S1 Strains and plasmid used in this study

Strains	Characteristic	Source/References
DH10b	[$mcrA$ ($mrr - hsdRM - mcrBC$) $lacX74$ $deoR$ $recA1$]	*Sambrok and Russel, 2001*
LF82	AIEC clinical strain isolated from ileum biopsy of a CD patient used as prototype	*Boudeau et al.*, 1999
LF82 *ΔacrAB*	LF82 derivative defective in *acrAB* genes, Km^R	This study
LF82 *ΔacrB*	LF82 derivative defective in *acrB* gene, Km^R	This study
LF82 *ΔacrA*	LF82 derivate defective in *acrA* gene, Km^R	This study
Plasmids		
pKD46	Temperature sensitive replicon that carried bacteriophage λ red genes (γ, β and *exo*) under control of arabinose inducible P*araBAD* promoter, Ap^R	*Datsenko and Wanner, 2000*
pKD13	Kan^R containing plasmid, template for PCR	*Datsenko and Wanner, 2000*
pKD4	π-dependent plasmid carrying kanamycin resistance gene flanked by the recognition sites of the yeast FLP recombinase in direct repeats	*Datsenko and Wanner, 2000*
pGIP7	pACYC184-derived vector carrying *lacI-lac* promoter region, Cm^R	*Falconi et al., 2001*
p*acrAB*	pGIP7 derivative plasmid carrying the *acrAB* gene, Cm^R	This study
p*acrB*	pGIP7 derivative plasmid carrying the *acrB* gene, Cm^R	This study
p*acrB* D408A	p*GIP7* derivative plasmid carrying the $acrB_{D408A}$ allele, Cm^R	This study

Table S2 Oligonucleotides used in this study

Chromosomal mutations	
Name	**5'-3' sequences**
ABF	ACTTTTGACCATTGACCAATTTGAAATCGGACACTCGAGGTTTACAT ATGTGTAGGCTGGAGCTGCTTCG
ABR	TAGGCATGTCTTAACGGCTCCTGTTTAAGTTAAGACTTGGACTGTTC AGGATTCCGGGGATCCGTCGACC
BF	TATAAAAAAGGCCGCTTGCGCGGCCTTAGTGATTACACGTTGTATCA ATGATTCCGGGGATCCGTCGACC
BR	CCTGAACAGTCCAAGTCTTAACTTAAACAGGAGCCGTTAAGACATGCC TATGTAGGCTGGAGCTGCTTCG
AF	ACTTTTGACCATTGACCAATTTGAAATCGGACACTCGAGGTTTACAT ATGTGTAGGCTGGAGCTGCTTCG
AR	TAGGCATGTCTTAACGGCTCCTGTTTAAGTTAAGACTTGGACTGTTC AGGCATATGAATATCCTCCTTA
Construction of plasmids	
Name	**5'-3' sequences**
pAC*acrAB*F	NNNGGATCCATGACCAATTTGAAATC
pAC*acrAB*R	NNNGGATCCTGAGTTGGTGGTTCAATACT
pAC*acrB*F	NNNGGATTCATGCCTAATTTCTTTATCGATCGC
pAC*acrB*R	NNNGGATTCGGATCCTGAGTTGGTGGTTCAATACT
pAC*acrB* $_{D408A}$ F	CATCGGCCTGTTGGTGGATGCCGCTATCGTTGTGGTAGAAA
pAC*acrB* $_{D408A}$ R	TTTCTACCACAACGATAGCGGCATCCACCAACAGGCCGATGG

Fig. S1

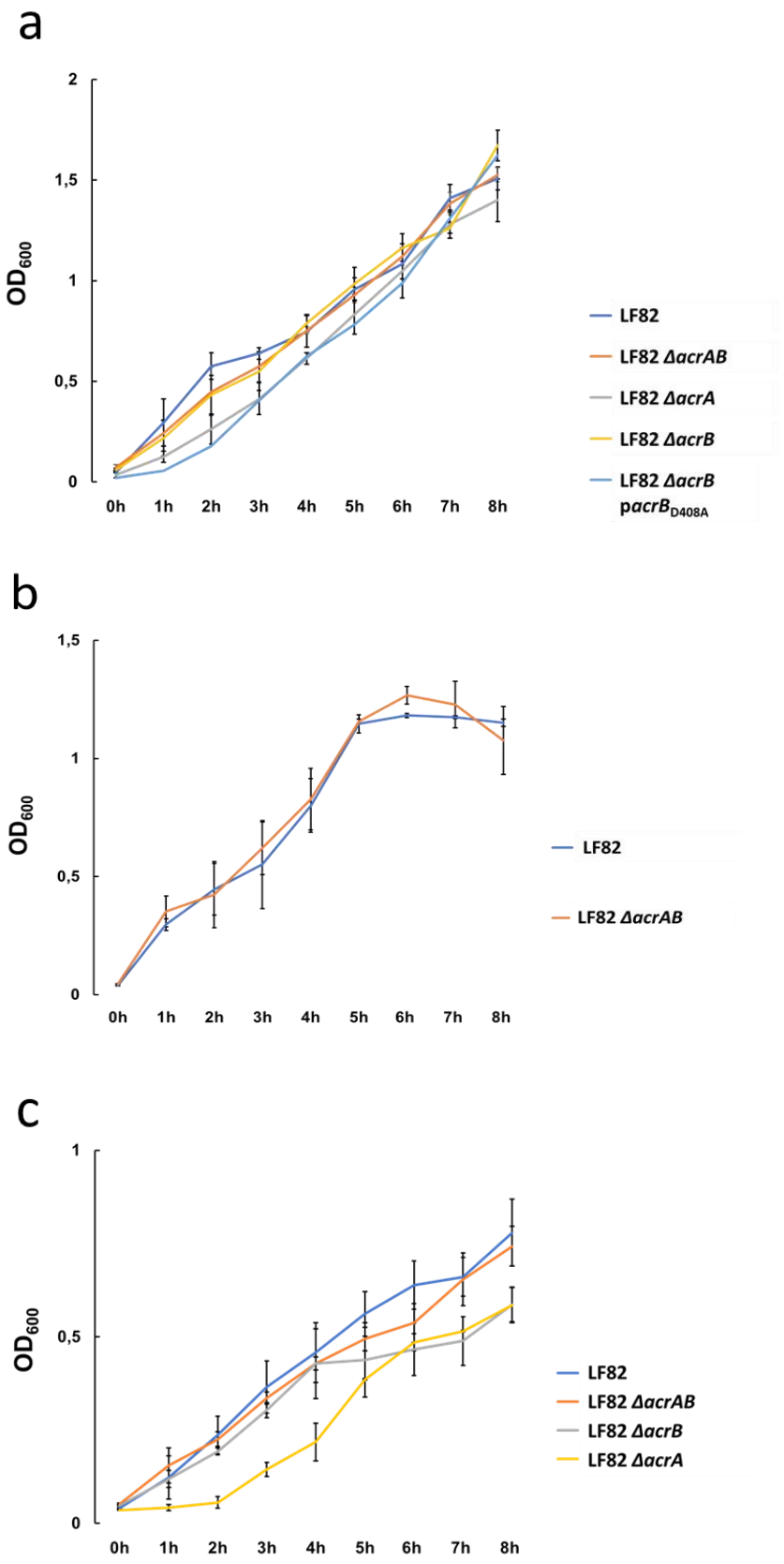

Figure S1. Growth of LF82 and its derivatives. AIEC LF82 and the indicated derivatives were grown in LB medium (**a),** DMEM **(b)** and RPMI **(c)**. The results are the average of at least three independent experiments. Error bars represent the SD.

Fig. S2

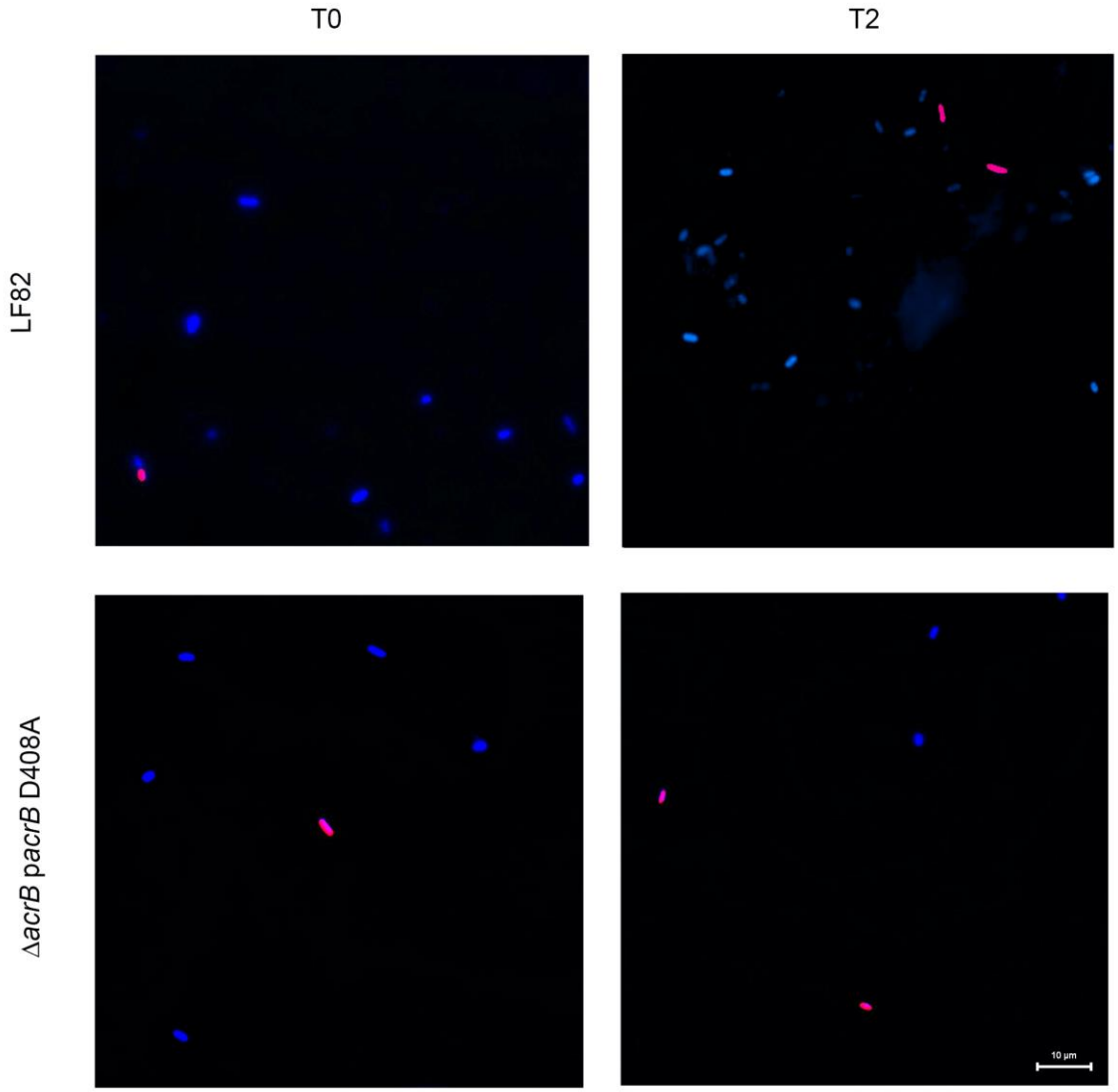

Figure S2. Live and dead assay. Images of DAPI (blue)/PI (red) double stained intracellular LF82 and LF82 Δ*acrB* p*acrB*$_{D408A}$ bacteria recovered at the indicated time points. The pink colored bacteria result from the overlapping of the red (PI) and blue (DAPI) colors and represent dead bacteria.