



Supporting Information

Deciphering the role of colicins during colonization of the mammalian gut by commensal *E. coli*

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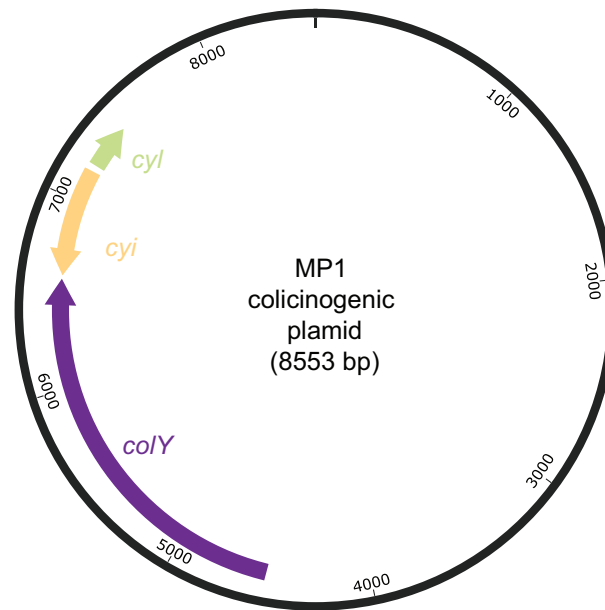


Figure S1. Schematic of MP1 plasmid map with annotated colicin (*colY*), immunity (*cyi*), and lysis (*cyl*) genes.

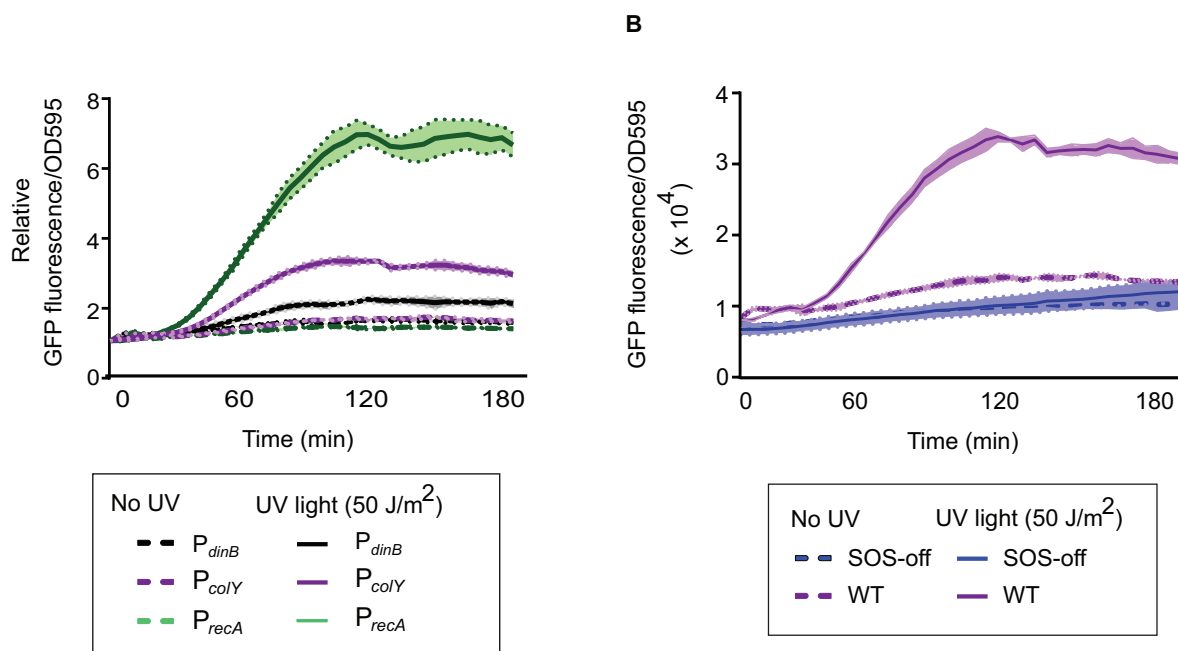


Figure S2. SOS regulation of colicin promoter. (A) The promoter activity of *recA* is compared to the promoter activity of *colY* and *dinB*. GFP induction for P_{recA} or P_{colY} is indicated by the green and purple colors, respectively. (B) The promoter activity *colY* is dependent upon LexA cleavage. SOS-off represents a strain that has an inactivated LexA protein that prevents activation of the SOS response. For both experiments the time-dependent induction of GFP is represented as fluorescence intensity normalized to optical density at 595 nm at the start of the experiment. The error bands show the standard deviations of results from four independent biological replicates for each condition.

Strain	Relevant characteristics	Sensitivity profile	Citation
<i>Vibrio Cholerae</i> C6076	El Tor, O1	Resistant	[55]
<i>Klebsiella pneumonia</i> A2312NM	ST-11 serogroup	Resistant	[56]
<i>S. typhimurium</i> 14028s	Outgroup GC1	Resistant	[57]
<i>S. typhimurium</i> AJB3		Resistant	This study
<i>S. Gallinarum</i> ATCC700623	Biovar Gallinarum	Resistant	This study
<i>S. Newport</i> SL254	S. Newport IIC	Resistant	This study
<i>E. coli</i> E2348/69	Group B2, EPEC	Resistant	[58]
<i>E. coli</i> CFT073	Group B2, UPEC	Resistant	[59]
<i>E. coli</i> Nissle 1917	Group B2, Commensal	Sensitive	[60]
<i>E. coli</i> 042	Group D, EAEC	Resistant	[61]
<i>E. coli</i> HS	Group A, Commensal	Resistant	[62]
<i>E. coli</i> O157:H7 EC4115	Group B, EHEC	Resistant	[63]
K12 MG1655	Group A, Commensal	Sensitive	<i>E. coli</i> Genetic Stock Center, CGSC no. 7740
TW10509	Clade I, ETEC	Resistant	[64]

Table S1. Characteristics and sensitivity profile of strains used to test the activity spectrum of MP1 colicin

Supplementary References

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