

**Table S1. Strains used in this study**

Strain	Description	Source
MG1655	K-12 lab strain	[1]
CFT073	UPEC strain (pyelonephritis isolate, O6:K2:H1)	[2]
UTI89	UPEC strain (cystitis isolate, O18:K1:H7)	[3, 4]
F11	UPEC strain (O6:K2:H31)	[5]
S88	NMEC strain (O45:K1)	[6]
BW25141/pKD4	K-12 lab strain carrying plasmid pKD4	[7]
CFT073/pKM208	CFT073 carrying plasmid pKM208	This study
CFT073/pRR48	CFT073 carrying empty vector pRR48	This study
CFT073/pPN007	CFT073 carrying plasmid pPN007	This study
CFT073/pPN009	CFT073 carrying plasmid pPN009	This study
CFT073/pPN028	CFT073 carrying plasmid pPN028	This study
CFT073Δ <i>higBA</i>	CFT073 <i>higBA</i> ::kan <sup>R</sup> (pKD4)	This study
CFT073Δ <i>hipBA</i>	CFT073 <i>hipBA</i> ::kan <sup>R</sup> (pKD4)	This study
CFT073Δ <i>sohA-yhaV</i>	CFT073 <i>sohA-yhaV</i> ::kan <sup>R</sup> (pKD4)	This study
CFT073Δ <i>ybaJ-hha</i>	CFT073 <i>ybaJ-hha</i> ::kan <sup>R</sup> (pKD4)	This study
CFT073Δ <i>yefM-yoeB</i>	CFT073 <i>yefM-yoeB</i> ::kan <sup>R</sup> (pKD4)	This study
CFT073Δ <i>pasTI</i>	CFT073 <i>pasTI</i> ::kan <sup>R</sup> (pKD4)	This study
CFT073Δ <i>pasTI</i> /pRR48	CFT073Δ <i>pasTI</i> mutant carrying empty vector pRR48	This study
CFT073Δ <i>pasTI</i> /pBAD18-Cm/pRR48	CFT073Δ <i>pasTI</i> mutant carrying empty vectors pBAD18-Cm and pRR48	This study
CFT073Δ <i>pasTI</i> /pPN007	CFT073Δ <i>pasTI</i> mutant carrying plasmid pPN007	This study

CFT073 $\Delta$ <i>pasTI</i> /pPN009	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN009	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN010	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN010	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN011	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN011	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN012	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN012	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN019	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN019	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN020	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN020	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN025	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN025	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN028	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN028	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN041	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN041	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN043	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN043	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN055	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN055	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN060	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN060	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN060/pPN007	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN060 and plasmid pPN007	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN064	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN064	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN067	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN067	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN068	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN068	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN069	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN069	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN078	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN078	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN079	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN079	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN080	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN080	This study
CFT073 $\Delta$ <i>pasTI</i> /pPN081	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN081	This study

CFT073 $\Delta$ <i>pasTI</i> /pPN083	CFT073 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN081	This study
UTI89 $\Delta$ <i>pasTI</i>	UTI89 <i>pasTI</i> ::kan <sup>R</sup> (pKD4)	This study
F11 $\Delta$ <i>pasTI</i>	F11 <i>pasTI</i> ::kan <sup>R</sup> (pKD4)	This study
S88 $\Delta$ <i>pasTI</i>	S88 <i>pasTI</i> ::kan <sup>R</sup> (pKD4)	This study
MG1655 $\Delta$ <i>pasTI</i>	MG1655 <i>pasTI</i> ::kan <sup>R</sup> (pKD4)	This study
MG1655 $\Delta$ <i>pasTI</i> /pRR48	MG1655 $\Delta$ <i>pasTI</i> mutant carrying empty vector pRR48	This study
MG1655 $\Delta$ <i>pasTI</i> /pPN007	MG1655 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN007	This study
MG1655 $\Delta$ <i>pasTI</i> /pPN009	MG1655 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN009	This study
MG1655 $\Delta$ <i>pasTI</i> /pPN028	MG1655 $\Delta$ <i>pasTI</i> mutant carrying plasmid pPN028	This study
CFT073-Clm <sup>R</sup>	CFT073 with a chloramphenicol resistance cassette inserted into the intergenic region of genes <i>c3028</i> and <i>c3029</i>	This study

## Supplemental References

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