

Table S2. Plasmids used in this study

Plasmid	Description	Source
pKD3	template plasmid for gene disruption; contains FRT flanked Clm ^R cassette	[1]
pKD4	template plasmid for gene disruption; contains FRT flanked Kan ^R cassette	[1]
pKM208	Amp ^R ; encodes IPTG-inducible lambda red recombinase	[2]
pRR48	Amp ^R cloning plasmid containing an IPTG inducible <i>Ptac</i> promoter	[3]
pBAD33	Clm ^R cloning plasmid containing arabinose inducible pBAD promoter	[4]
pGEN-MCS	High retention Amp ^R cloning plasmid	[5]
pPN007	Amp ^R ; <i>pasT</i> (from CFT073) cloned into PstI, HindIII of pRR48	This study
pPN009	Amp ^R ; <i>pasT</i> (from CFT073) cloned into BamHI, KpnI of pRR48	This study
pPN010	Amp ^R ; <i>pasI</i> (from CFT073) cloned into BamHI, KpnI of pRR48	This study
pPN011	Amp ^R ; <i>pasTI</i> (from CFT073) cloned into BamHI, KpnI of pRR48	This study
pPN012	Amp ^R ; <i>pasT</i> (from CFT073) with C-terminal FLAG cloned into PstI,	This study
pPN019	Amp ^R ; <i>pasT</i> (from CFT073) with GGGGP linker and C-terminal FLAG	This study
pPN020	Amp ^R ; <i>pasT</i> (from CFT073) with GGGGP linker and N-terminal FLAG	This study
pPN025	Amp ^R ; <i>pasT</i> (from CFT073) with N-terminal FLAG cloned into PstI,	This study
pPN028	Amp ^R ; <i>pasT</i> (from MG1655) cloned into PstI, HindIII of pRR48	This study
pPN041	Amp ^R ; <i>pasT</i> (from CFT073) with N-terminal 6X-His cloned into PstI,	This study
pPN043	Amp ^R ; <i>pasT</i> (from CFT073) with C-terminal 6X-His cloned into PstI,	This study
pPN055	Amp ^R ; first 207 nucleotides of <i>pasT</i> (from CFT073) cloned into PstI,	This study
pPN060	Clm ^R ; <i>pasI</i> (from CFT073) cloned into SacI, HindIII of pBAD33 with	This study
pPN064	Amp ^R ; nucleotides 208-477 of <i>pasT</i> (from CFT073) cloned into PstI,	This study

pPN067	Amp ^R ; nucleotides 28-477 of <i>pasT</i> (from CFT073) cloned into PstI,	This study
pPN068	Amp ^R ; nucleotides 40-477 of <i>pasT</i> (from CFT073) cloned into PstI,	This study
pPN069	Amp ^R ; nucleotides 88-477 of <i>pasT</i> (from CFT073) cloned into PstI,	This study
pPN078	Amp ^R ; <i>pasT</i> (from CFT073) with C-terminal FLAG tag cloned into	This study
pPN079	Amp ^R ; nucleotides 28-477 of <i>pasT</i> (from CFT073) with C-terminal	This study
pPN080	Amp ^R ; nucleotides 40-477 of <i>pasT</i> (from CFT073) with C-terminal	This study
pPN081	Amp ^R ; nucleotides 88-477 of <i>pasT</i> (from CFT073) with C-terminal	This study
pPN083	Amp ^R ; <i>pasTI</i> operon including native promoter (243 bp upstream of <i>pasTI</i> ; all sequences from CFT073) cloned into HindIII, NcoI sites of pGEN-MCS	This study

Supplemental References

1. Datsenko KA, Wanner BL (2000) One-step inactivation of chromosomal genes in *Escherichia coli* K-12 using PCR products. *Proc Natl Acad Sci U S A* 97: 6640-6645.
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3. Zhou Q, Ames P, Parkinson JS (2009) Mutational analyses of HAMP helices suggest a dynamic bundle model of input-output signalling in chemoreceptors. *Mol Microbiol* 73: 801-814.
4. Guzman LM, Belin D, Carson MJ, Beckwith J (1995) Tight regulation, modulation, and high-level expression by vectors containing the arabinose PBAD promoter. *J Bacteriol* 177: 4121-4130.
5. Lane MC, Alteri CJ, Smith SN, Mobley HL (2007) Expression of flagella is coincident with uropathogenic *Escherichia coli* ascension to the upper urinary tract. *Proc Natl Acad Sci U S A* 104: 16669-16674.