

Table S1. *Escherichia coli* strains and plasmids used in this study.

Strain	Genotype	Source
BW25113	$\Delta(araD-araB)567$, $\Delta lacZ4787(::rrnB-3)$, λ , <i>rph-1</i> , $\Delta(rhaD-rhaB)568$, <i>hsdR514</i>	Baba et al., 2006 [1]
JW2663	as BW25113, but $\Delta gshA$	Baba et al., 2006 [1]
JW5250	as BW25113, but $\Delta eamA$	Baba et al., 2006 [1]
JW2562	as BW25113, but $\Delta eamB$	Baba et al., 2006 [1]
JW5363	as BW25113, but Δbcr	Baba et al., 2006 [1]
JW2407	as BW25113, but $\Delta cysK$	Baba et al., 2006 [1]
JW2414	as BW25113, but $\Delta cysM$	Baba et al., 2006 [1]
JW2505	as BW25113, but $\Delta mstA$ (<i>sseA</i>)	Baba et al., 2006 [1]
JW1614	as BW25113, but $\Delta malY$	Baba et al., 2006 [1]
JW2975	as BW25113, but $\Delta metC$	Baba et al., 2006 [1]
JW5518	as BW25113, but $\Delta cyuA$ (<i>yhaM</i>)	Baba et al., 2006 [1]
JW2514	as BW25113, but $\Delta iscS$	Baba et al., 2006 [1]
JW3686	as BW25113, but $\Delta tnaA$	Baba et al., 2006 [1]
JW1267	as BW25113, but $\Delta cysB$	Baba et al., 2006 [1]
JW0437	as BW25113, but $\Delta cyuR$ (<i>ybaO</i>)	Baba et al., 2006 [1]
JW1718	as BW25113, but $\Delta tcyP$ (<i>ydjN</i>)	Baba et al., 2006 [1]
AN2342	K-12 derivative, F-	Cruz-Ramos et al., 2004 [2]
AN2343	as AN2342 <i>cydD1</i> , G319D, G429E	Cruz-Ramos et al., 2004 [2]
DM4000	<i>hisG4 argE3 thr-1- ara-14 xyl-5 mtl-1 rpsL31 tsx-33 ilv TS sulA::Mud1(bla lac) cam</i>	Volkert et al. 1989 [3]
Plasmids		
pKT1033	<i>katG::lacZ</i>	Tao et al. 1989 [4]
pColV-K30	<i>iucC::lacZ</i>	Maringanti and Imlay, 1999 [5]

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