

9 **Table S1 Strains and plasmids used in this study**

Strain or plasmids	Genotype or description	Reference or source
MC4100	F <i>araD139</i> Δ (<i>arg-lac</i>) <i>U169 rpsL150 relA1 flbB5301 deoC1 ptsF25 thi</i>	(Casadaban, 1976)
NR754	MC4100 Ara+	(Button et al., 2007)
MG2298	NR754 <i>cpxP::rrnB-bla</i> / pHJ13	This study
MG2299	NR754 <i>cpxPQ::rrnB-bla</i> / pHJ13	This study
MG2587	NR754 <i>cpxP::rrnB-bla</i> / pHJ8	This study
MG2588	NR754 <i>cpxPQ::rrnB-bla</i> / pHJ8	This study
MG2582	NR754 Δ <i>cpxP::kan</i> / pTtrc99A	This study
MG2583	NR754 Δ <i>cpxP::kan</i> / pCpxP	This study
MG2584	NR754 Δ <i>cpxP::kan</i> / pMal-CpxP	This study
MG2585	NR754 Δ <i>cpxP::kan</i> / pCpxPQ	This study
MG2586	NR754 Δ <i>cpxP::kan</i> / pMal-CpxPQ	This study
DY378	W3110 λ cI857 Δ (<i>cro-bioA</i>)	(Yu et al., 2000)
DK10	DY378 Δ <i>cpxP::kan</i>	This study
Transcriptional LacZ reporter strains		
TR50	MC4100 λ RS88[<i>cpxP'</i> - <i>lacZ</i> ⁺]	(Raivio and Silhavy, 1997)
MG2404	MC4100 λ RS88[<i>cpxP'</i> - <i>lacZ</i> ⁺] <i>cpxP::rrnB-kan</i>	This study
MG2405	MC4100 λ RS88[<i>cpxP'</i> - <i>lacZ</i> ⁺] <i>cpxPQ::rrnB-kan</i>	This study
MG2399	MC4100 λ RS88[<i>cpxP'</i> - <i>lacZ</i> ⁺] <i>cpxA17</i>	This study
MG2410	MC4100 λ RS88[<i>cpxP'</i> - <i>lacZ</i> ⁺] <i>cpxA17 cpxP::rrnB-kan</i>	This study
MG2411	MC4100 λ RS88[<i>cpxP'</i> - <i>lacZ</i> ⁺] <i>cpxA17 cpxPQ::rrnB-kan</i>	This study
TR50	MC4100 λ RS88[<i>degP'</i> - <i>lacZ</i> ⁺]	(Raivio and Silhavy, 1997)
MG2406	MC4100 λ RS88[<i>degP'</i> - <i>lacZ</i> ⁺] <i>cpxP::rrnB-kan</i>	This study
MG2407	MC4100 λ RS88[<i>degP'</i> - <i>lacZ</i> ⁺] <i>cpxPQ::rrnB-kan</i>	This study
MG2398	MC4100 λ RS88[<i>degP'</i> - <i>lacZ</i> ⁺] <i>cpxA17</i>	This study
MG2408	MC4100 λ RS88[<i>degP'</i> - <i>lacZ</i> ⁺] <i>cpxA17 cpxP::rrnB-kan</i>	This study
MG2409	MC4100 λ RS88[<i>degP'</i> - <i>lacZ</i> ⁺] <i>cpxA17 cpxPQ::rrnB-kan</i>	This study
<i>lamBA23D</i> strains		

JHC285	MC4100 <i>zjb::Tn10 lamBA23D (cpxQ^{wt})</i>	(Carlson and Silhavy, 1993)
MG2416	JHC285 <i>cpxP::rrnB-bla (ΔcpxQ)</i>	This study
MG2417	JHC285 <i>cpxPQ::rrnB-bla (cpxQ⁺)</i>	This study
MG2418	JHC285 <i>cpxA17 (cpxQ^{wt})</i>	This study
MG2419	JHC285 <i>cpxA17 cpxP::rrnB-bla (ΔcpxQ)</i>	This study
MG2420	JHC285 <i>cpxA17 cpxPQ::rrnB-bla (cpxQ⁺)</i>	This study
MG2421	JHC285 <i>cpxA24 (cpxQ^{wt})</i>	This study
MG2422	JHC285 <i>cpxA24 cpxP::rrnB-bla (ΔcpxQ)</i>	This study
MG2423	JHC285 <i>cpxA24 cpxPQ::rrnB-bla (cpxQ⁺)</i>	This study
MG2607	JHC285 / pTrec99A	This study
MG2608	JHC285 / pCpxP	This study
MG2713	MG2416 / pTrec99A	This study
MG2630	MG2416 / pCpxP	This study
MG2714	MG2417 / pTrec99A	This study
MG2631	MG2417 / pCpxP	This study
MG2415	MG2419 / pTrec99A	This study
MG2631	MG2419 / pCpxP	This study
MG2716	MG2420 / pTrec99A	This study
MG2633	MG2420 / pCpxP	This study
MG2634	MG2416 <i>Δskp::kan</i>	This study
MG2635	MG2417 <i>Δskp::kan</i>	This study
MG2637	MG2419 <i>Δskp::kan</i>	This study
MG2638	MG2420 <i>Δskp::kan</i>	This study
MG2640	MG2422 <i>Δskp::kan</i>	This study
MG2641	MG2423 <i>Δskp::kan</i>	This study
<i>lamB-lacZ42-1</i> strains		
JCM912	MC4100 $\Phi(lamB-lacZ)hyb42-1 cpxA^+$	(Dwyer et al., 2014)
WBS226	MC4100 $\Phi(lamB-lacZ) hyb42-1 cpxA17$	(Cosma et al., 1995)
NJH187	MC4100 $\Phi(lamB-lacZ) hyb42-1 cpxA24$	(Cosma et al., 1995)
MG2566	JCM912 <i>cpxA⁺ cpxP::rrnB-kan (ΔcpxQ)</i>	This study
MG2567	JCM912 <i>cpxA⁺ cpxPQ::rrnB-kan (cpxQ⁺)</i>	This study
MG2568	WBS226 <i>cpxA17 cpxP::rrnB-kan (ΔcpxQ)</i>	This study
MG2569	WBS226 <i>cpxA17 cpxPQ::rrnB-kan (cpxQ⁺)</i>	This study
MG2570	NJH187 <i>cpxA24 cpxP::rrnB-kan (ΔcpxQ)</i>	This study

MG2571	NJH187 <i>cpxA24 cpxPQ::rrnB-kan (cpxQ⁺)</i>	This study
<i>H*lamB-lacZ</i> strains		
JCM944	MC4100 Ara ⁺ ϕ (<i>H*lamB</i> '-' <i>lacZ</i>) Hyb42-1 [λ p1(209)]	(Dwyer et al., 2014)
MG2673	JCM944 <i>cpxA⁺ cpxP::rrnB-bla (ΔcpxQ)</i>	This study
MG2674	JCM944 <i>cpxA⁺ cpxPQ::rrnB-bla (cpxQ⁺)</i>	This study
MG2614	JCM944 <i>cpxA17 cpxP::rrnB-bla (ΔcpxQ)</i>	This study
MG2615	JCM944 <i>cpxA17 cpxPQ::rrnB-bla (cpxQ⁺)</i>	This study
MG2616	JCM944 <i>cpxA24 cpxP::rrnB-bla (ΔcpxQ)</i>	This study
MG2617	JCM944 <i>cpxA24 cpxPQ::rrnB-bla (cpxQ⁺)</i>	This study
<i>lamB-lacZX90</i> strains		
JCM914	MC4100 Ara ⁺ ϕ (<i>lamB</i> '-' <i>lacZX90</i>) Hyb42-1 [λ p1(209)]	(Dwyer et al., 2014)
MG2384	JCM914 <i>cpxA⁺ cpxP::rrnB-bla (ΔcpxQ)</i>	This study
MG2385	JCM914 <i>cpxA⁺ cpxPQ::rrnB-bla (cpxQ⁺)</i>	This study
MG2386	JCM914 <i>cpxA17 cpxP::rrnB-bla (ΔcpxQ)</i>	This study
MG2387	JCM914 <i>cpxA17 cpxPQ::rrnB-bla (cpxQ⁺)</i>	This study
MG2388	JCM914 <i>cpxA24 cpxP::rrnB-bla (ΔcpxQ)</i>	This study
MG2389	JCM914 <i>cpxA24 cpxPQ::rrnB-bla (cpxQ⁺)</i>	This study
Plasmids		
pTrc99A	Cloning vector, pBR322 <i>ori</i> , Amp ^R	Lab stocks
pCpxP	<i>cpxP</i> cloned into <i>EcoRI-HindIII</i> of pTrc99A, Amp ^R	(Raivio et al., 1999)
pMal-CpxP	<i>malE-cpxP</i> cloned into <i>EcoRI-HindIII</i> of pTrc99A, Amp ^R	This study
pCpxPQ	<i>cpxPQ</i> with entire 3' intergenic region cloned into <i>EcoRI-HindIII</i> of pTrc99A, Amp ^R	This study
pMal-CpxPQ	<i>malE-cpxPQ</i> with entire 3' intergenic region cloned into <i>EcoRI-HindIII</i> of pTrc99A, Amp ^R	This study
pMal-CpxPQshort	<i>malE-cpxPQ</i> with shortened 3'UTR cloned into <i>EcoRI-HindIII</i> of pTrc99A, Amp ^R	This study
pBAD33	Cloning vector, pACYC <i>ori</i> , Cam ^R	(Guzman et al., 1995)
pBAD33 <i>cpxQ</i>	<i>cpxQ</i> cloned at the transcriptional start site downstream from P _{araBAD} with primers pBAD_sRNA_F and pBAD_sRNA_R	This study