

Table S1 List of strains and plasmids

Strain or plasmid name	Relevant characteristics	Source or reference
TOP10	Strain for plasmid propagation	Moll Lab Collection, *#497
BW27784	K-12 strain derivative (ancestor strain: BW25113) used for arabinose-inducible expression; $\Delta(araD-araB)567$, $\Delta lacZ4787(::rrnB-3)$, λ^- , $\Delta(araH-araF)570(::frt)$, $\Delta araEp-532::frt$, $\phi Pcp18araE533$, $\Delta(rhaD-rhaB)568$, <i>hsdR514</i> Reporterless strain	[17], #1056
TB212	BW27784 attP21::AP _R - <i>mCherry</i> ::frt; constitutive <i>mCherry</i> expression	[18], #1058
MG1655	Wild-type <i>E. coli</i> K-12 F ⁻ , λ^- , <i>ilvG</i> ⁻ , <i>rfb-50</i> , <i>rph-1</i>	[21], #103
pUH-C-leaderless Δ ACA-EmGFP (pMS2_53)	AmpR, pUH-C; leaderless <i>Emgfp</i> Δ ACA expression	[16, 20], #863
pUH-C-canonical-EmGFP (pMS2_612)	AmpR, pUH-C w/o 2nd operator; constitutive <i>Emgfp</i> Δ ACA expression	[16, 20], #884
pUH-C- Δ TIR- Δ ACA-EmGFP (pMS2_645)	AmpR, pUH-C w/o 2nd operator; stem loop structure upstream of <i>Emgfp</i> Δ ACA; negative control for the fluorescence readout	[16, 20], #886
pZS*12-GFP	AmpR, SC101* ori	Guet Lab Collection, #1059
pZS*-53	AmpR, SC101* ori, HindIII/XhoI digestion of the insert from pMS2_53 to pZS*12-GFP; leaderless <i>Emgfp</i> Δ ACA expression	This study, #1060
pZS*-612	AmpR, SC101* ori, HindIII/XhoI digestion of insert from pMS2_612 to pZS*12-GFP; constitutive <i>Emgfp</i> Δ ACA expression	[9], #1061
pZS*-645	AmpR, SC101* ori, HindIII/XhoI digestion of the insert from pMS2_645 to pZS*12-GFP; control for fluorescence readout	This study, #1063
pBAD- <i>mazF</i>	CamR, p15A ori, pBAD33 backbone, P _{BAD} ⁻ <i>mazF</i> ; Ara-inducible <i>mazF</i> expression	[19], #692

* # is the position in the Moll Lab Collection