

Table S3: Plasmids used in this study

Plasmid	Relevant features ^a	Origin	Reference/source
pKD4	kan ^R , Amp ^R	R6K	(1)
pMT13	CM ^R , P _{ara} :: <i>nativeRBS_mreC</i>	pBR/colE1	
pMT116	Tet ^R , attHK, P _{lac} ::empty	R6K	(2)
pPR66	CM ^R , P _{lac} ::empty	pBR/colE1	
pPR99	CM ^R , P _{ara} ::empty	R6K	
pHC514	CM ^R , P _{lac} :: <i>slmA</i> , attL, attI	R6K	
pHC405	CM ^R , P _{ara} :: <i>artificialRBS_sf-gfp</i>	pACYC	
pPR111	CM ^R , P _{lac} :: <i>nativeRBS_lpxC</i>	pBR/colE1	This study
pEMF15	CM ^R , P _{ara} :: <i>nativeRBS_yejM</i>	R6K	This study
pEMF17	CM ^R , P _{lac} :: <i>native_RBS_yejM</i>	pBR/colE1	This study
pEMF33	CM ^R , P _{lac} :: <i>artificial_yejM</i>	pBR/colE1	This study
pJLB11	<i>cl857</i> , <i>scel</i> , P _{lac} ::empty	pSC101	Derivative of plasmid from de Boer lab (3)
pEMF20	<i>cl857</i> , <i>scel</i> , P _{lac} :: <i>nativeRBS_yejM</i>	pSC101	This study
pHCL147	Tet ^R , attHK, P _{lac} :: <i>ssDsbA-mScarC</i>	R6K	(4)
pHCL149	CM ^R , P _{ara} :: <i>artificialRBS_popZ-H3H4-msfGFP-TM</i> (N-terminal fusion)	pBR/colE1	(4)
pHCL150	CM ^R , P _{ara} :: <i>artificialRBS_popZ-msfGFP-H3H4</i> (C-terminal fusion)	pBR/colE1	(4)
pEMF35	CM ^R , P _{ara} :: <i>artificialRBS_popZ-H3H4-msfGFP-yejM</i>	pBR/colE1	This study
pEMF36	Tet ^R , attHK, P _{lac} :: <i>artificialRBS_lapB-mScarC</i>	R6K	This study
pEMF37	Tet ^R , attHK, P _{lac} :: <i>artificialRBS_lapA-mScarC</i>	R6K	This study

pEMF38	Tet ^R , attHK, P _{lac} :: <i>artificialRBS_ftsH-mScarC</i>	R6K	This study
pEMF43	CM ^R , P _{lac} :: <i>artificialRBS_acpT</i>	pBR/colE1	This study
pEMF53	Tet ^R , attHK, P _{lac} :: <i>artificialRBS_lapB</i>	R6K	This study
pEMF54	CM ^R , P _{ara} :: <i>artificialRBS_yejM</i>	pBR/colE1	This study
pEMF55	CM ^R , Para:: <i>popZ-FtsH-msfGFP_H3H4, artificialRBS_yejM</i>	pBR/colE1	This study
pEMF57	CM ^R , P _{ara} :: <i>artificialRBS_sf-gfp</i>	pBR/colE1	This study
pEMF65	CM ^R , P _{ara} :: <i>artificialRBS_popZ-H3H4-msfGFP-yejM₍₁₋₁₉₁₎</i>	pBR/colE1	(4)
pEMF68	CM ^R , P _{ara} :: <i>artificialRBS_yejM₍₁₋₁₉₁₎</i>	pBR/colE1	This study

^a P_{lac} and P_{ara} refer to the lactose and arabinose promoters, respectively. The artificialRBS indicates the RBS of the Φ 10 gene from T7 bacteriophage.

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