

Table S5. mRNA lifetimes of transcripts used in this work.

#	Strain	Promoter	Transcript [†]	Expression level (mRNA/cell)	Doubling time (min)	RNA lifetime (min) [‡]	Source
E1	TK310	P _{lac}	<i>lacZ</i>	~4.9	~33	2.2 ± 0.1	This work
E2	TK310	P _{lac}	<i>lacZ</i>	~55	~44	2.020 ± 0.003	This work
E3	TK310	P _{lac}	<i>lacZ</i>	~0.59	~63	1.9 ± 0.2	This work
E4	LC544	P _{marII}	<i>lacZ</i>	~4.1	~40	2.1 ± 0.1	This work
E5	LC544	P _{marII}	<i>lacZ</i>	~6.4	~90	2.4 ± 0.2	This work
E6	CY481	P _{bioBFCB}	<i>lacZ</i>	~1.4	~34	1.4 ± 0.1	This work
E7	CF7753	<i>rrmBP1</i>	<i>lacZ</i> *	~22	~28	0.97 ± 0.05	This work
E8	CF7753	<i>rrmBP1</i>	<i>lacZ</i> *	~1.9	~64	0.91 ± 0.02	This work
E9	NC416	P _{RM}	<i>cI</i>	~10	~34	2.8 ± 0.8	²⁷
E10	JL5902 (ΔNP2)	P _{RM} (cID38N)	<i>cI</i>	~6.9	~34	1.12 ± 0.05	This work
E11	NC416	P _R	<i>cro</i>	~1.1	~34	1.9 ± 0.5	²⁷

[†] *lacZ** has an inefficient ribosome binding site to avoid toxicity from excessive β-galactosidase levels^{15,16} (Michael Cashel, personal communication).

[‡] Mean ± standard deviation from 2 independent experiments.

Comments:

1. E1 through E3; E4 and E5; and E7 and E8:
Comparing mRNA lifetimes for the same transcript at different growth rates.
2. E1 through E3; E4 and E5; and E7 and E8:
Comparing mRNA lifetimes for the same transcript at different expression levels.
3. E1, E4, and E6:
Comparing mRNA lifetimes for the same transcript expressed from different promoters.
4. E1, E7, E9, and E11:
Comparing mRNA lifetimes of different transcripts.
5. E9 and E10:
Comparing mRNA lifetimes for the same transcript in RecA⁺ and RecA⁻ backgrounds.