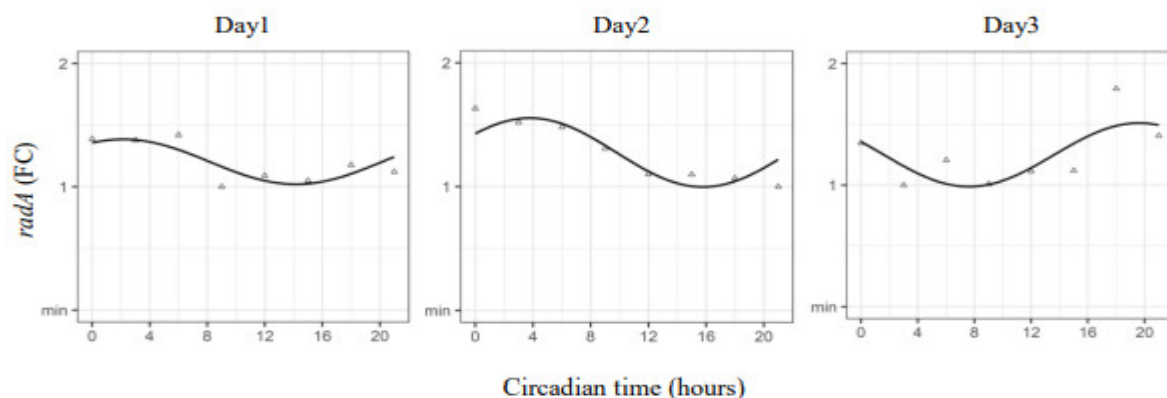


Supplementary Materials

A.



B.

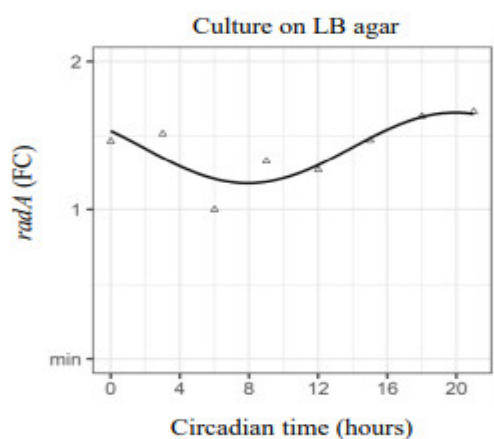
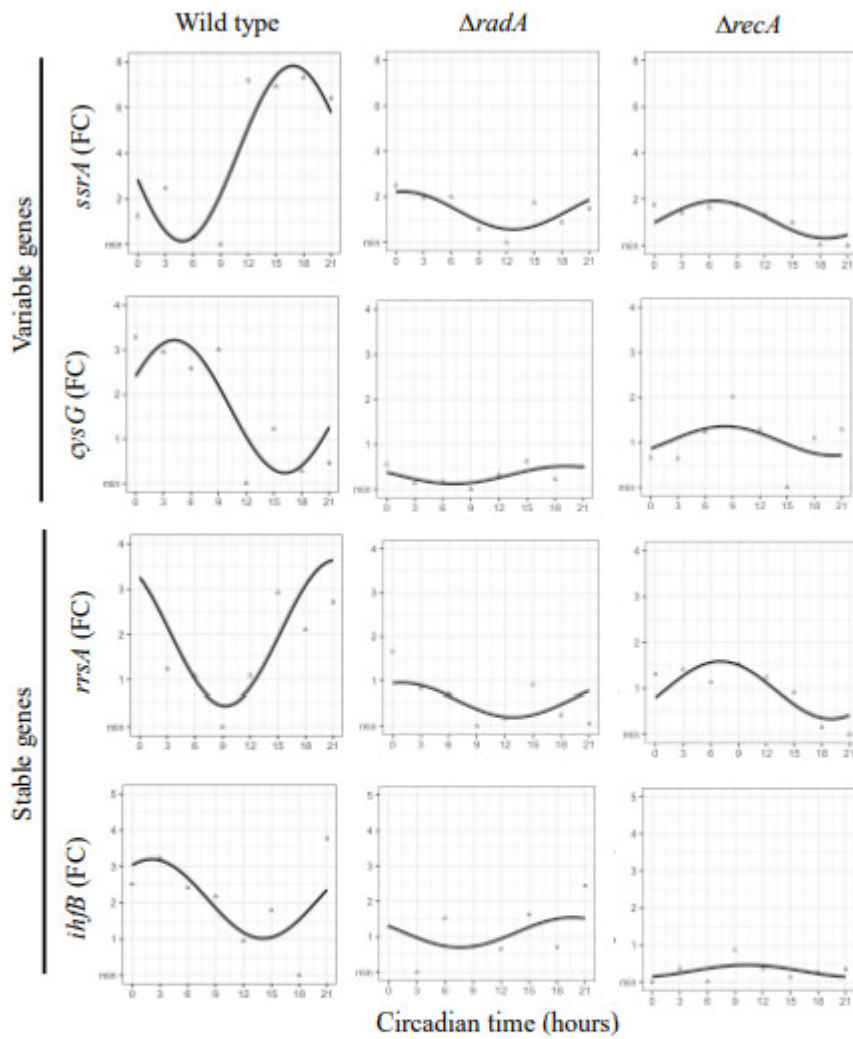


Figure S1. Circadian expression of *radA* in *E. coli* cultured on LB agar and persistence overtime. (A) Bacteria were spotted on blood agar with $7 \cdot 10^5$ bacteria per point and incubated at 37°C for 24 hours. Colonies were then collected every 3 hours during 3 consecutive days. The expression of the *radA* gene was evaluated by q-RTPCR and expressed as fold change (FC) using the $2^{-\Delta\Delta C_t}$ formula. The triangles correspond to the raw data without Cosinor transformation; the sinusoids represent the expression of the genes over time after adjustment of the values by the Cosinor model. Statistical analysis was performed using the cosine function in R studio (the results are representatives of three experiments). (B) Bacteria were spotted on LB agar with $7 \cdot 10^5$ bacteria per point and incubated at 37°C for 24 hours. Colonies were then collected every 3 hours for 24 hours. The expression of *radA* was evaluated by q-RTPCR and expressed as fold change (FC) using the $2^{-\Delta\Delta C_t}$ formula. The triangles correspond to the raw data without Cosinor transformation; the sinusoids represent the expression of the genes over time after adjustment of the values by the Cosinor model. Statistical analysis was performed using the cosine function in R studio (the results are representatives of three experiments).

A.



B.

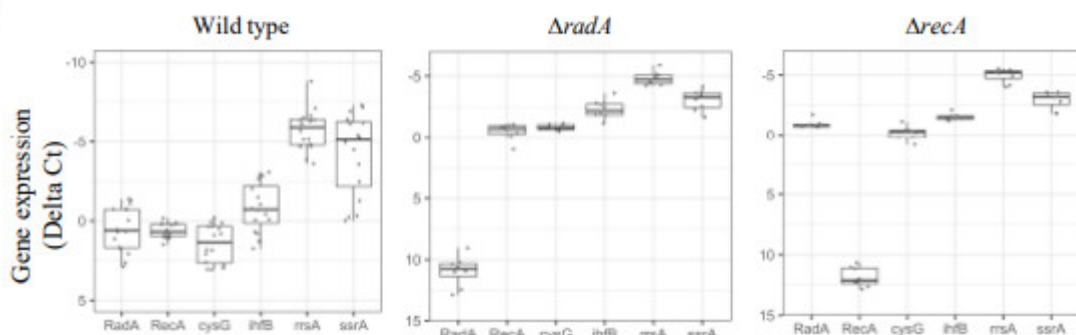


Figure S2. Circadian expression of variable and stable genes in *E. coli*. Bacteria were spotted on blood agar with 7×10^5 bacteria per point and incubated at 37°C for 24 hours. Colonies were then collected every 3 hours for 24 hours. (A) The expression of the variable genes (*ssrA* and *cysG*) and the stable genes (*rrsA* and *ihfB*) was evaluated by q-RT-PCR and expressed as fold change (FC) using the $2^{-\Delta\Delta\text{Ct}}$ formula. The triangles correspond to the raw data without Cosinor transformation; the sinusoids represent the expression of the genes over time after adjustment of the values by the Cosinor model. Statistical analysis was performed using the cosine function in R studio (the results are

representatives of three experiments). (B) The expression of the genes (*radA*, *recA*, *ssrA*, *cysG*, *rrsA* and *ihfB*) was evaluated by q-RTPCR and expressed in Δ Ct. The results are represented as boxplot (median of the expression over 24h \pm interquartile).

Table S1. Rhythmic parameters (MESOR, amplitude and acrophase) of *radA* during 3 days culture.

Gene	Days	MESOR	CI 95%	<i>p</i> Value	Amplitude	CI 95%	<i>p</i> Value	Acrophase	CI 95%	<i>p</i> value	Signifiant
<i>radA</i>	1	1.20	(1.12 ; 1.28)	<0.001	0.18	(0.07 ; 2.20)	0.001	2.16	(0.00; 4.48)	0.006	Yes
	2	1.27	(1.17 ; 1.37)	<0.001	0.27	(0.13 ; 0.41)	<0.001	3.78	(1.86 ; 5.70)	<0.001	Yes
	3	1.24	(1.10 ; 1.39)	<0.001	0.26	(0.05 ; 0.46)	0.01	19.61	(16.65 ; 22.58)	0.003	Yes

Table S2. Rhythmic parameters (MESOR, amplitude and acrophase) of *radA* in bacteria cultivated in LB agar.

Gene	MESOR	CI 95%	<i>p</i> Value	Amplitude	CI 95%	<i>p</i> value	Acrophase	CI 95%	<i>p</i> value	Signifiant
<i>radA</i>	1.41	(1.32 ; 1.51)	<0.001	0.23	(0.10 ; 0.37)	<0.001	19.92	(17.75 ; 22.09)	<0.001	Yes