

Different *csrA* expression levels in C versus K-12 *E. coli* strains affect biofilm formation and impact the regulatory mechanism presided by the CsrB and CsrC small RNAs

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Table S1. Oligonucleotides

Name	Sequence
FG2524	AGCGCCTTGTAAGACTTCGCGAAAAAGACGATTCTATCTTCGTCGACAGGTGTAGGC TGGAGCTGCTTCG
FG2525	AGGGAGCACTGTATTACAGCGCTCCCGGTTTCGTTTCGCAGCATTCCAGCATTCCGGG GATCCGTCGACC
FG2530	CGTTGTCTGACTCCCTGTTCGAC
FG2531	GCTCCCTGCTCATCCTTGACAACCTTT
FG2568	CCGGACGTTTGTCTTCCTG
FG2585	AAAATGTGCAAATACTGATGGCGGTTGATTGTTTGTAAAGCAAAGGCGTGTGTAG GCTGGAGCTGCTT
FG2586	TGCGGCGGAATCTAACAGAAAGCAAAGAAAAAAGGCGACAGATTAACATAT GAATATCCTCCTTAG
FG2624	CGGGATACAGAGAGACCCGACTCTTTTAATCTTTCAAGGAGCAAAGAATGATTCCGG GGATCCGTCGACC
FG2625	CTCACCGATAAAGATGAGACGCGGAAAGATTAGTAACTGGACTGCTGGGATGTAGG CTGGAGCTGCTTCG
FG2647	CTAATACGACTCACTATAGGGCGCCAATACGTACCTGGTTG
FG2753	ATGCGATATCCTACTTCGCGGCTACGACC
FG3151	CGAAAGCTTTAATCTTTCAAGGAGGAAAG
FG3152	CGTGGATCCCGTCTCACCGATAAAGATG
PL101	TGTCGTCAGCTCGTGTCTGTA
PL102	ATCCCCACCTTCCTCCGGT
PL191	ATGCTGATTCTGACTCGTCGAG
PL208	GGGAGTCAGACAACGAAGTG

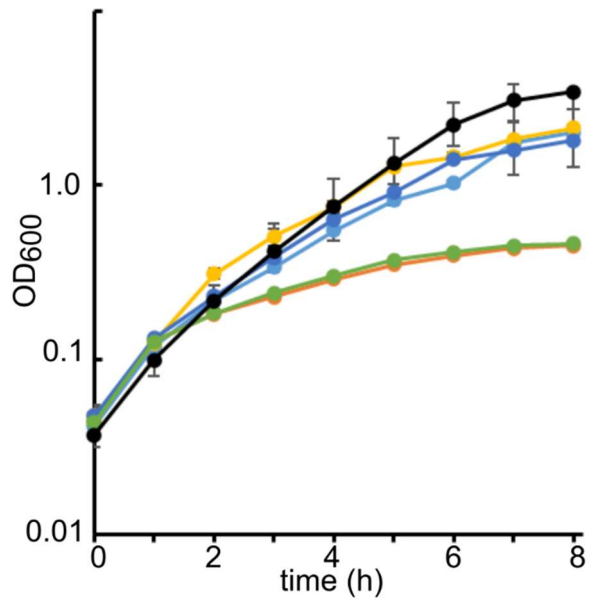


Figure S1. Growth curves of *csrA* mutants. Growth at 37 °C in M9-LG monitored by measuring the OD₆₀₀ of cultures of the strains indicated in the Figure. *E. coli* C: *csrA*⁺, C-1a (black curve); Δ *csrA*, C-5939 (light blue curve); *csrA::kan*, C-5741, (green, orange and blue curves); *E. coli* K-12: MG1655 *csrA::kan* (yellow curve). Three C-5741 independent cultures were analysed in this experiment.

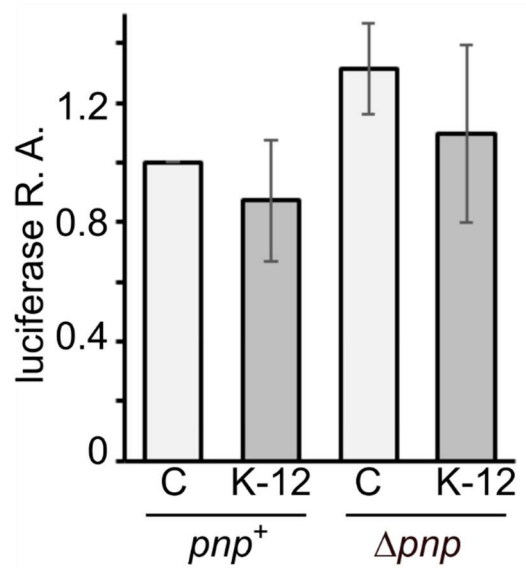


Figure S2. Activity of the *pgaABCD* operon promoter. Luciferase relative activity (R.A.) with respect to *E. coli* C wt strain. Results are the average of three determinations on independent cultures of the strains: *E. coli* C C-1a (*pnp*⁺), C-5691 (Δpnp); *E. coli* K-12 MG1655 (*pnp*⁺), KG-211 (Δpnp). All strains carried plasmid p Δ L_{pga}, which carries the *pgaABCD* promoter upstream of the luciferase gene [23]. Differences in luciferase R.A. with respect to the C-1a are not statistically significant according to t-test.

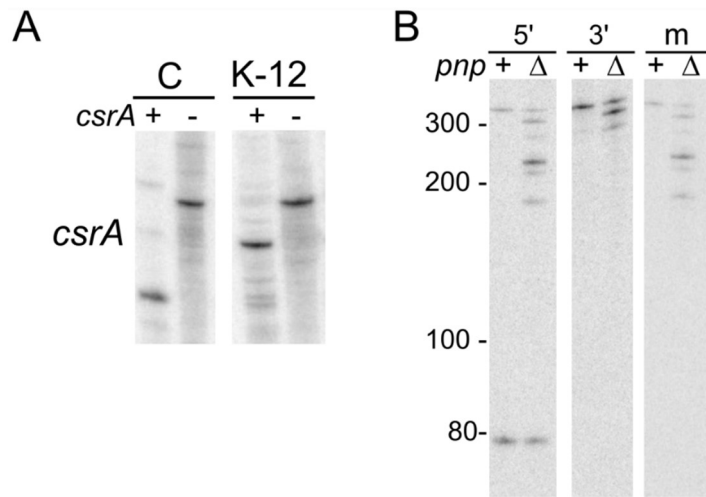


Figure S3. Transcription of *csrA* locus in *csrA::kan* mutants and characterization of CsrB sRNA. Northern blotting of RNA extracted from cultures grown in M9-LG to $OD_{600} = 0.8$ at 37 °C. RNA samples (10 μ g) were loaded on 6% polyacrylamide-urea gel, blotted onto a nylon membrane, and hybridized with the CSRA riboprobe (**A**) or radiolabelled oligonucleotides specific for different regions of the CsrB sRNA (FG2530, CsrB 5'-end; FG2531, CsrB 3'-end; PL208, CsrB internal region, m). (**B**). **A.** RNA extracted from cultures of *E. coli* C C-1a (+, *csrA*⁺), C-5741 (-, *csrA::kan*), and *E. coli* K-12 MG1655 (+, *csrA*⁺) and its isogenic *csrA::kan* mutant (-). **B.** RNA extracted from cultures of C-1a (+, *pnp*⁺) and C-5691 (Δ , Δ *pnp*), KG-294 (Δ *csrA pnp*⁺). The position and MW (in nt) of bands of the Low-range ssRNA ladder (NEB) is reported on the left.