Table S1. List of primers used in this work.

Primer	Sequence[1]	Promoter
PHO-47	ATGGGTCCTCCAGGGTTCGA	SCO0255
PHO-48	CGCTGCCAGGAGTTGAGGAT	
PHO-49	GAGCATCACCGCTTCGGCAT	*ureA* (SCO1236)
PHO-50	CGTGCGGGGTCAGTTGCATT	
PHO-51	GGTCCGCCACCGTGTGAAGT	SCO2195
PHO-52	CCTGCATCGTGGAGGTCCCC	
PHO-53	GGACGATCGATTTGCAGGTC	SCO1863
PHO-54	CGGATACTCGCACAAGCAGA	
GLN-01	CGAAACAAATGGGAAACGCCCGAGAAATCACC	*glnA*-M1
GLN-02	GGTGATTTCTCGGGCGTTTCCCATTTGTTTCG	
GLN-03	GGTTAACTTCTGCGTCACAAATGGGTCACG	*glnA*-M2
GLN-04	CGTGACCCATTTGTGACGCAGAAGTTAACC	
GLN-05	GGAGGGAGCCGGTTCGCTTCTGCGAAAC	*glnA*-M5
GLN-06	GTTTCGCAGAAGCGAACCGGCTCCCTCC	
GLN-07	GCGAAACAAATGGGGAACGCCCGAGAAATCACC	*glnA*-M7
GLN-08	GGTGATTTCTCGGGCGTTCCCCATTTGTTTCGC	
GLN-09	GGAGGGAGCCGGGAAACTTCTGCGAAAC	*glnA*-M8
GLN-10	GTTTCGCAGAAGTTTCCCGGCTCCCTCC	
GLN-11	GGTTAACTTCTGCTGAACAAATGGGTCACG	*glnA*-M9
GLN-12	CGTGACCCATTTGTTCAGCAGAAGTTAACC	
GLN-13	CGAAACAAATGGGTCAACCCCGAGAAATCACC	*glnA*-M10
GLN-14	GGTGATTTCTCGGGGTTGACCCATTTGTTTCG	
CAR87	ATTCGCATGCATGAAGCCAGCGTAAAG	SCO0888
CAR88	ATTCACGCGTCGGACAGACATGAGTAC	
CAR89	ATTCGCATGCGACTTGACCAGCGGAAC	SCO7155
CAR90	ATTCACGCGTCGGTGTCGTAGCGCAAG	

1 Nucleotides changed for directed mutagenesis are shown with double underline. Restriction sites added to the sequences are underlined.

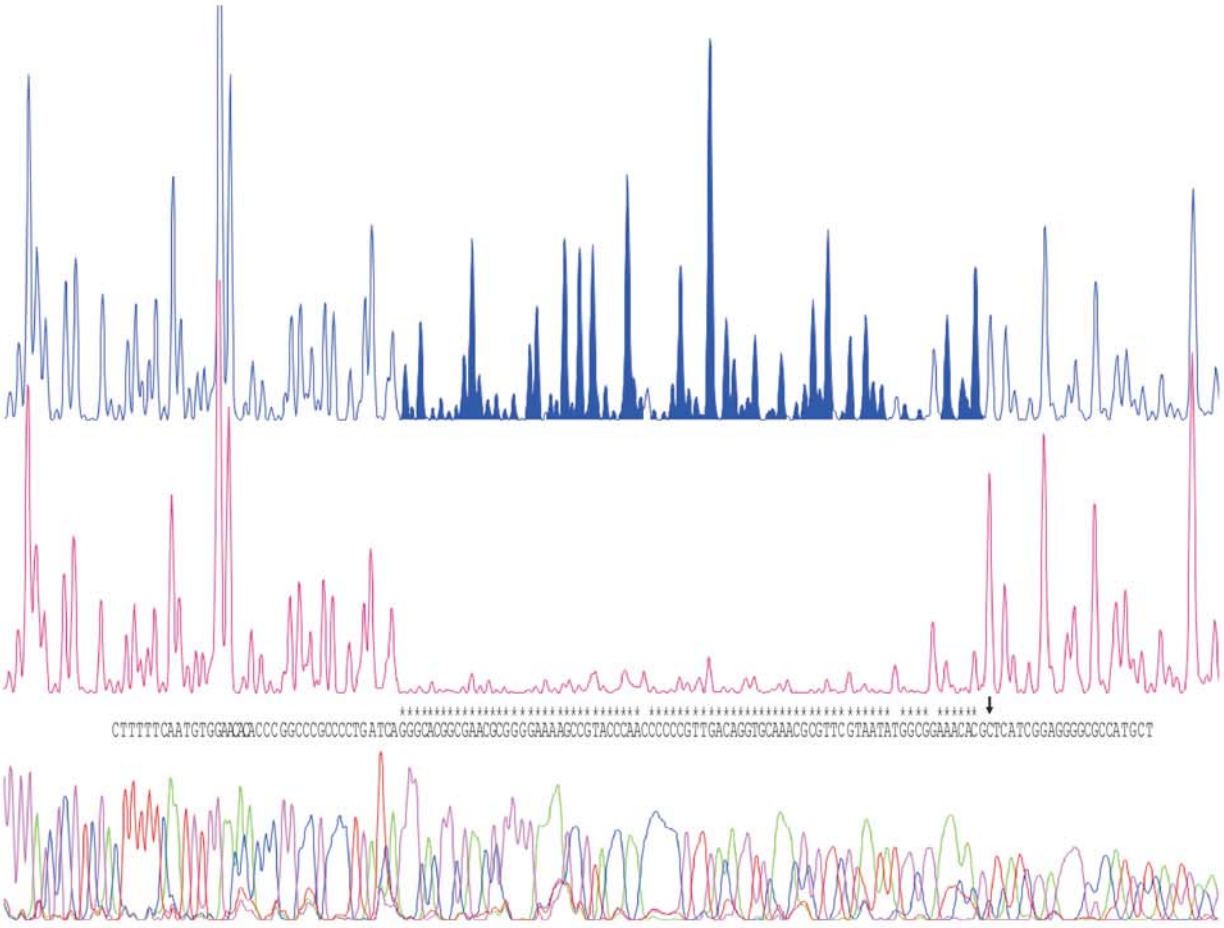
Supplementary Figure S1. DNase I footprints of the GST-PhoP^{DBD} protein bound to the promoter regions of SCO0255 (**A**), SCO1863 (**B**, **C**), and *ureA* genes (**D**). Blue electropherograms are control reactions without protein; the red ones correspond to reactions containing 4 μM of GST-PhoP^{DBD}. The protected nucleotides are indicated by asterisks and the peak shadowed areas. Hypersensitive sites created by protein binding are highlighted by vertical arrows. The correspondence between fluorescence peaks and nucleotide bases was determined using the sequencing reactions shown below.

Supplementary Figure S2. Analysis by EMSA of the binding of PhoP and GlnR to the *phoRP* and *pstS* promoters. The conditions of binding reaction were those described previously for GlnR (24). P, probe without protein. Numbers indicate the protein concentration (μM). The film was overexposed to show that no bands are formed with the GlnR protein. PhoP shifted bands are indicated by arrows.

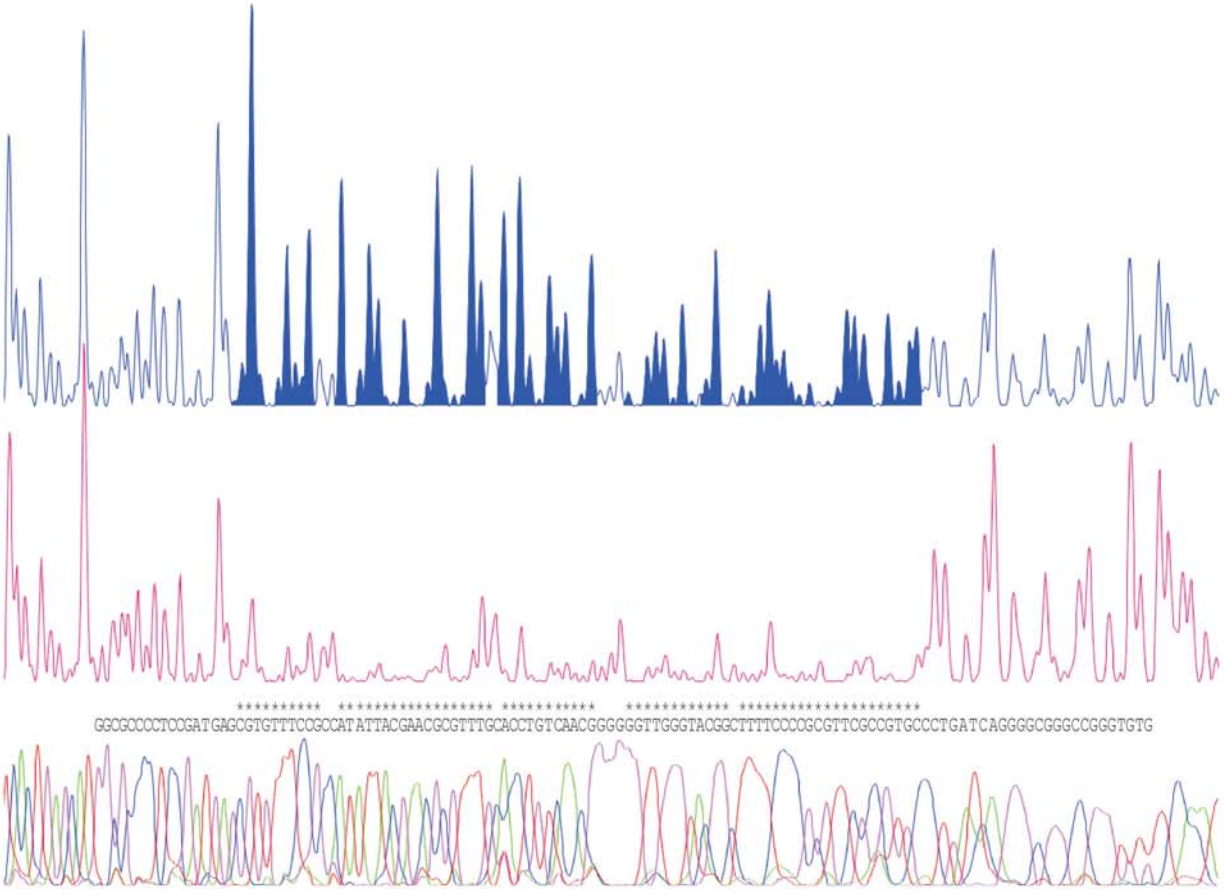
Supplementary Figure S3. Analysis by EMSA of binding of PhoP and GlnR to the *glnA* promoter. Lanes 1 and 6, probe without proteins; lanes 2-5 increasing concentrations of GlnR protein (from 0.125 to 1 μM); lanes 7-10, increasing concentrations of GST-PhoP^{DBD} protein (from 0.125 to 1 μM). Shifted bands are shown by arrows. Note that the most retarded band by GlnR has a similar size to that retarded by PhoP.

A

SCO0255 promoter, coding strand

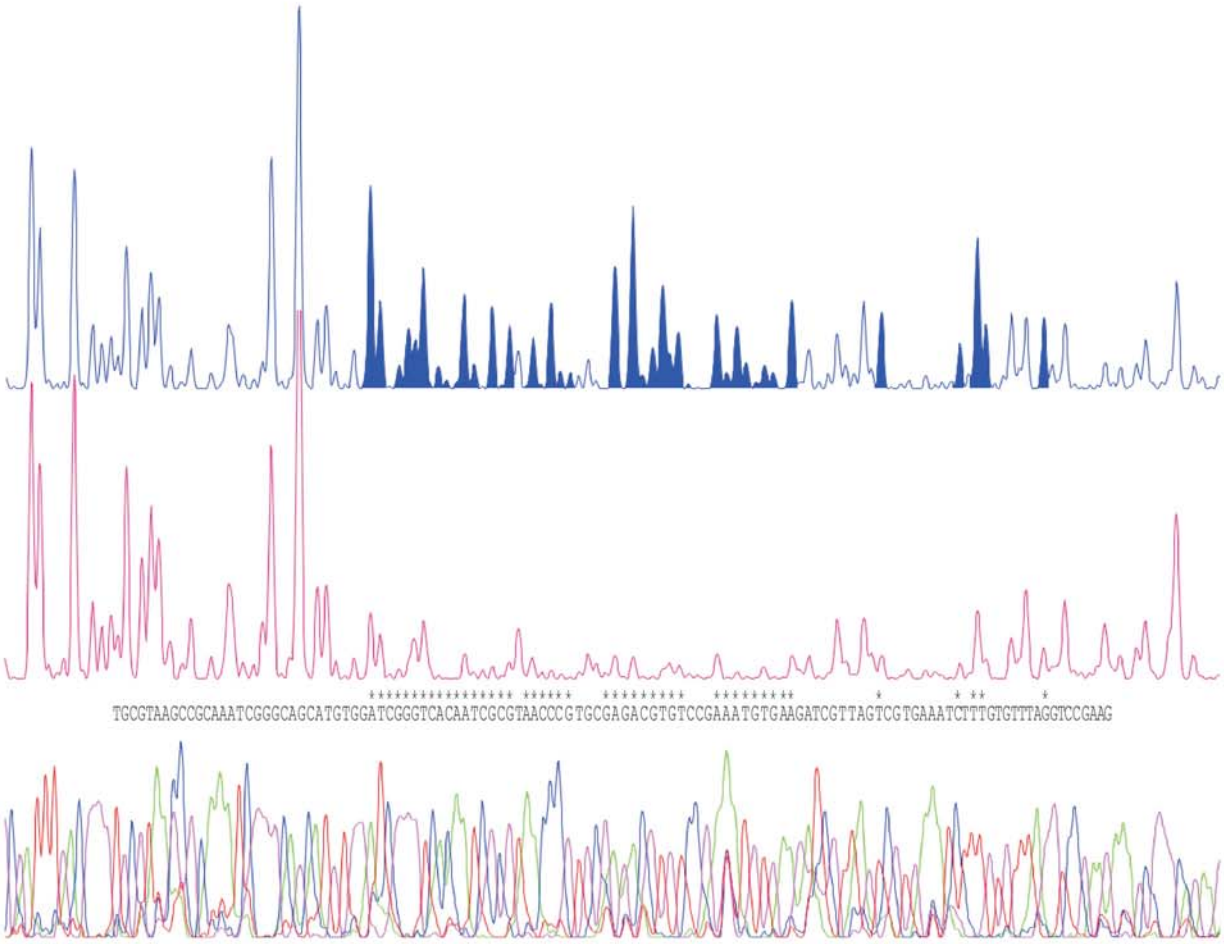


SCO0255 promoter, complementary strand

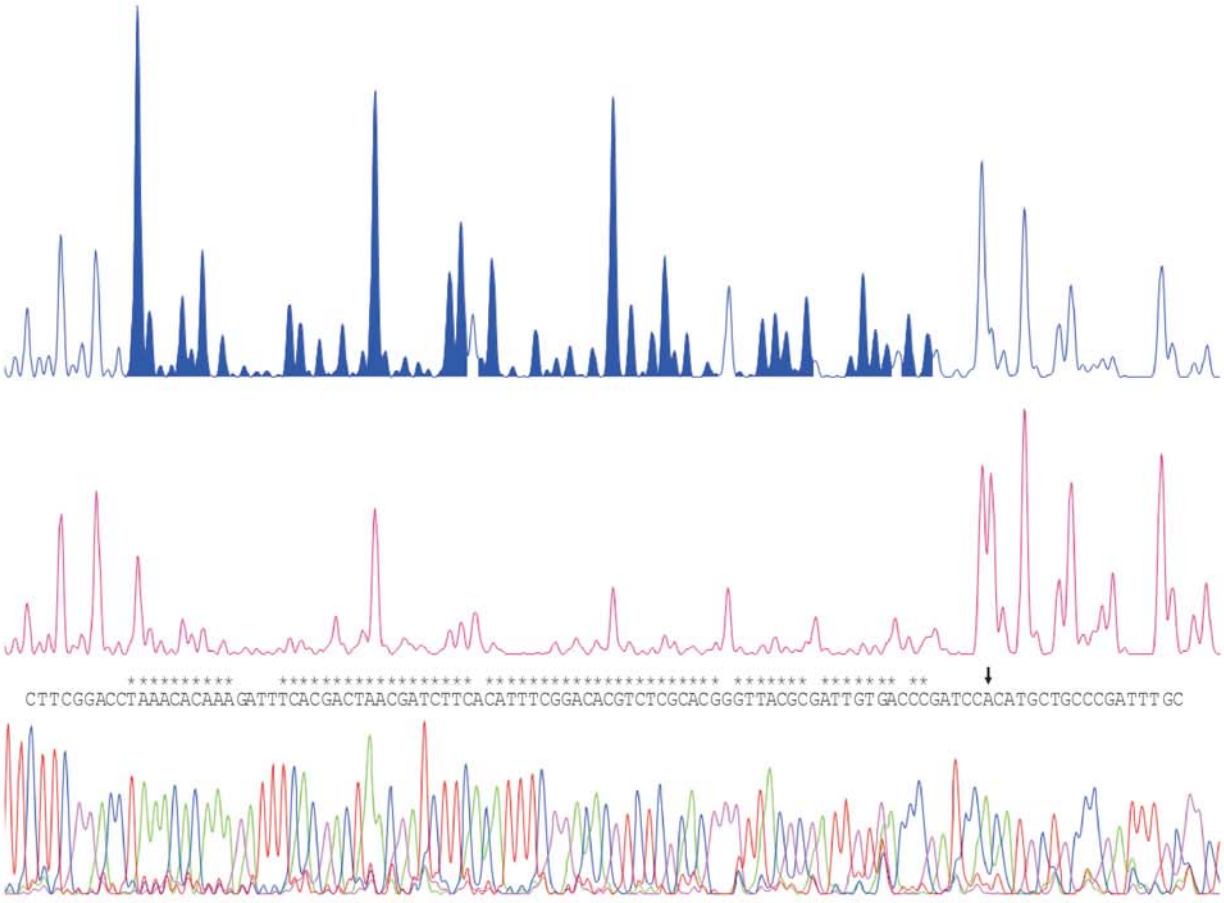


B

SCO1863 promoter, coding strand, main protected region

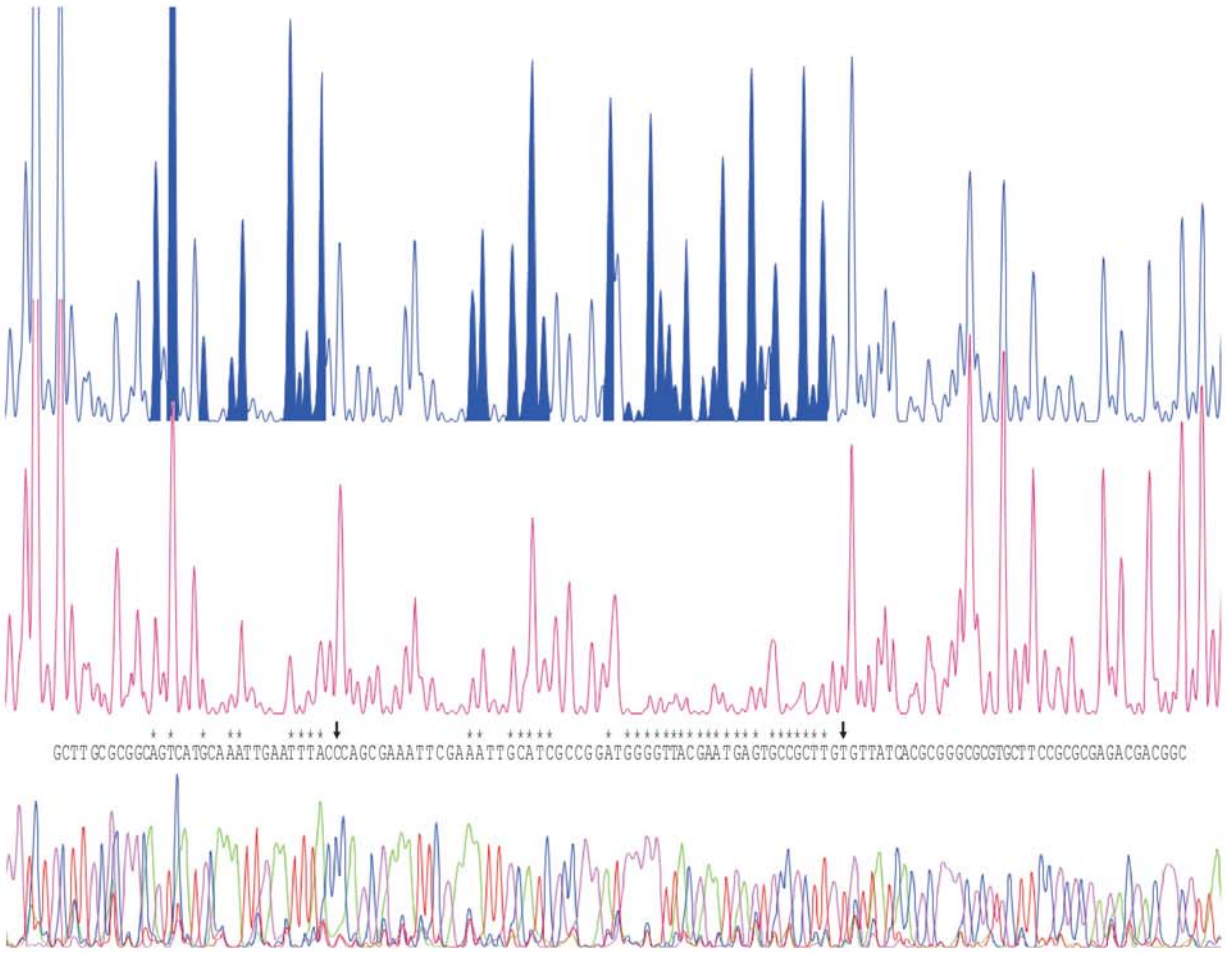


SCO1863 promoter, complementary strand, main protected region

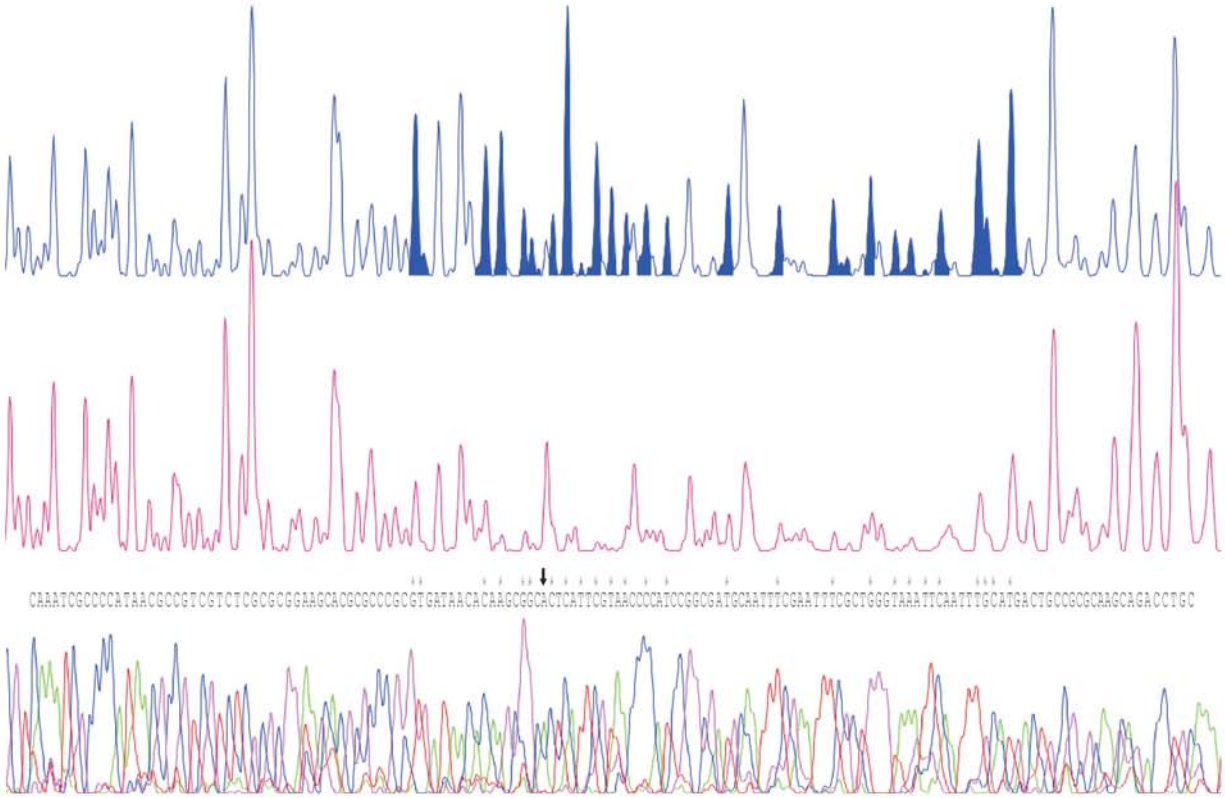


C

SCO1863 promoter, coding strand, second region

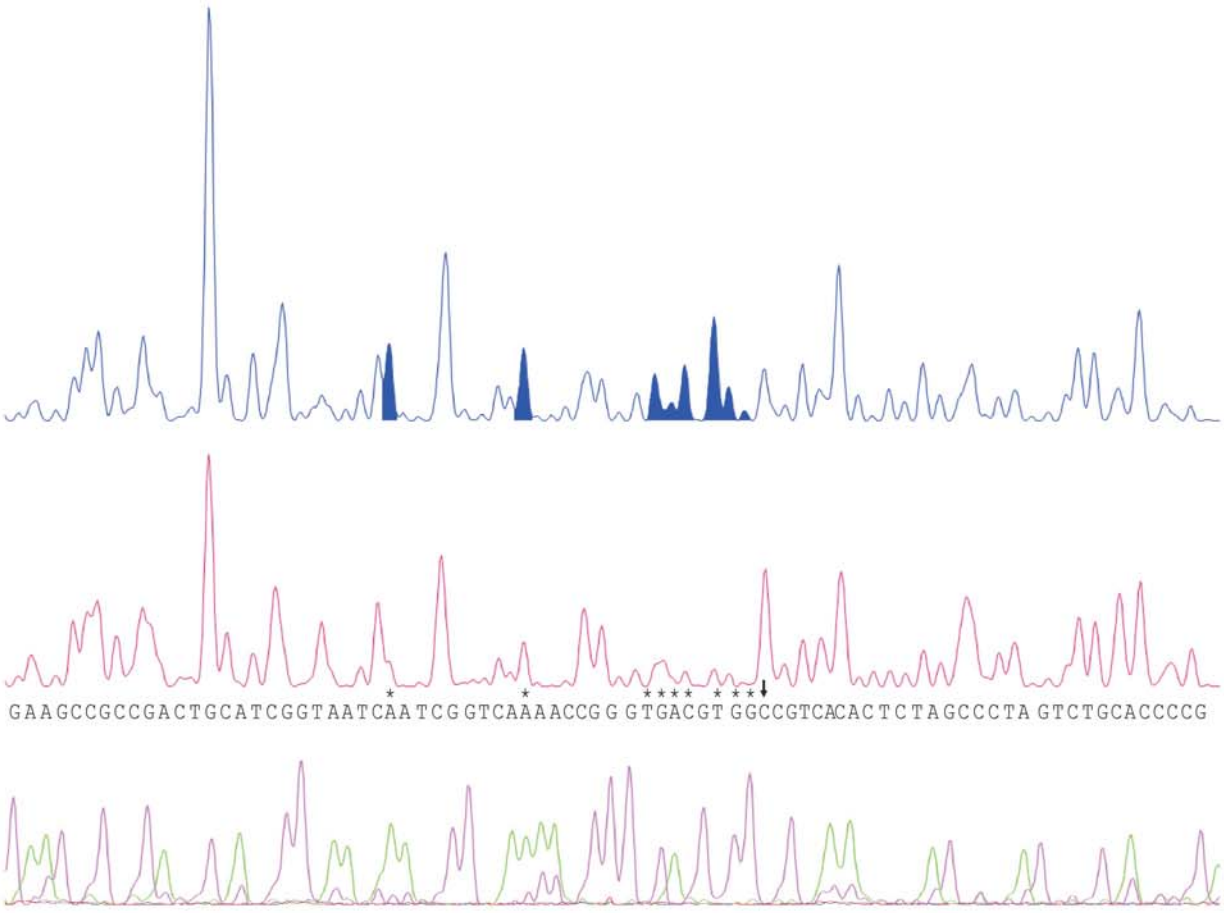


SCO1863 promoter, complementary strand, second region

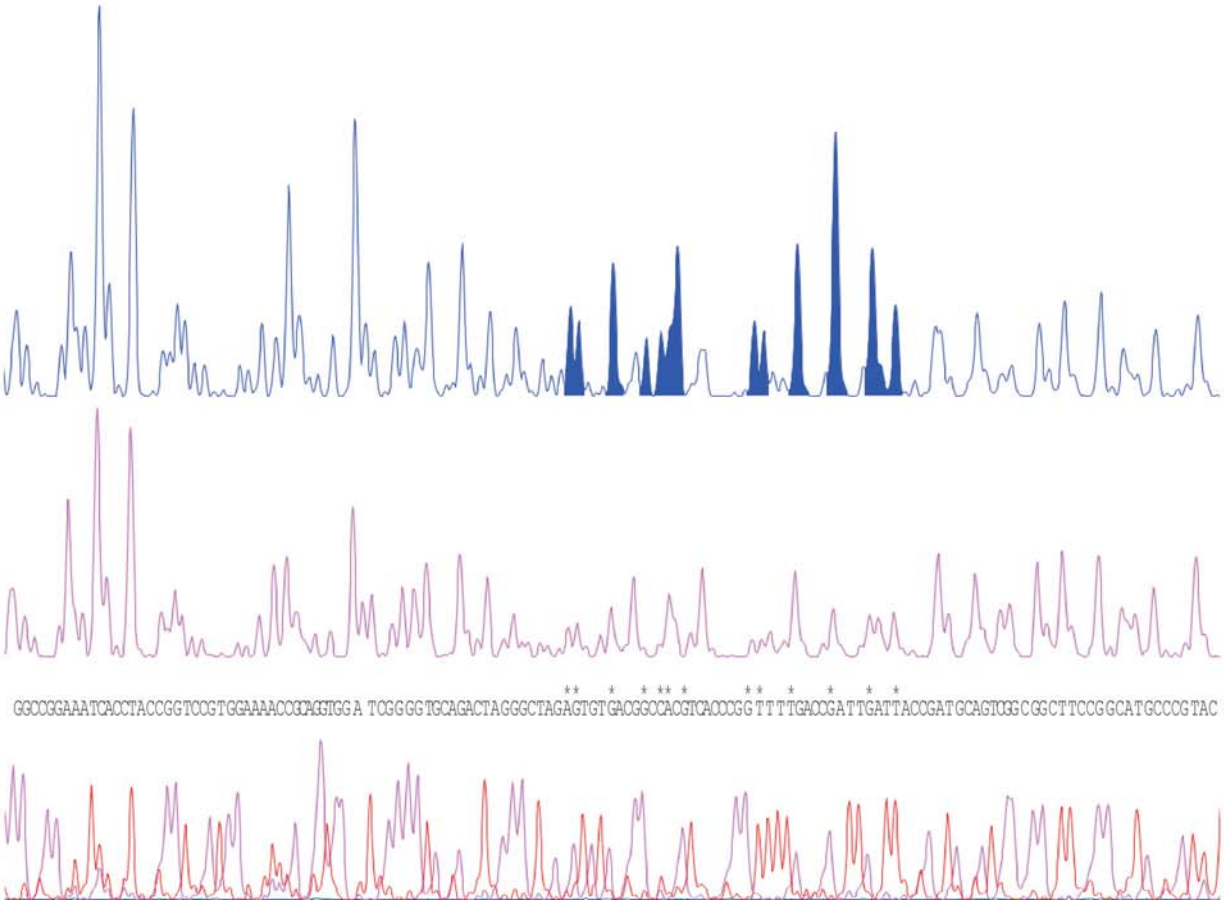


D

***ureA* promoter, coding strand**



***ureA* promoter, complementary strand**



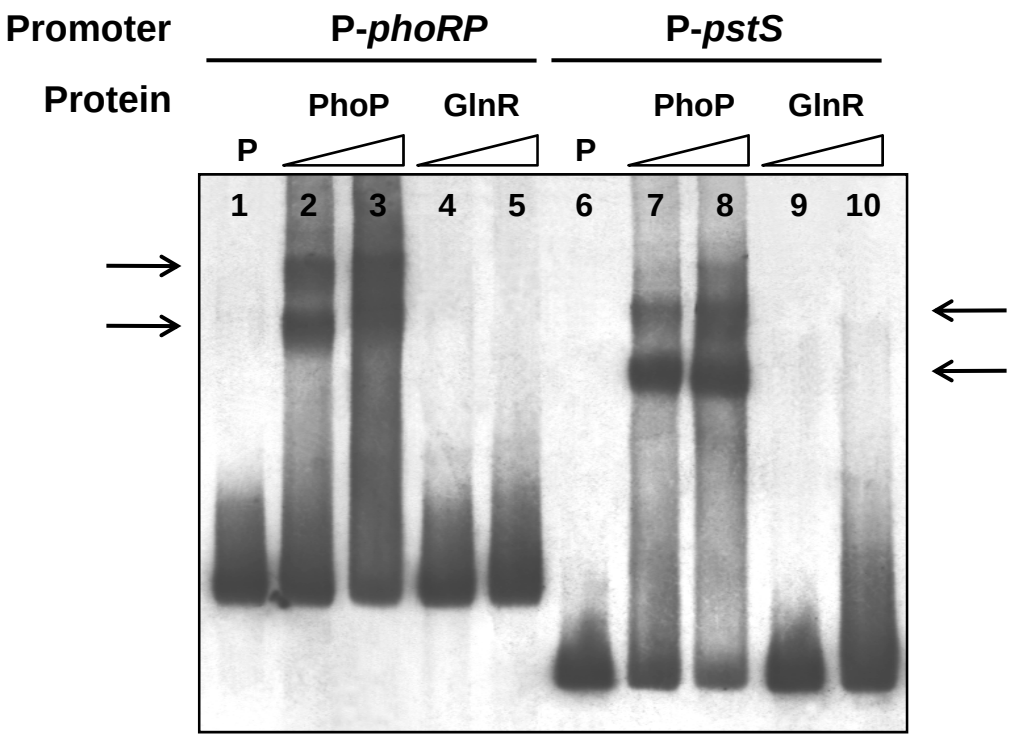


Figure S2. Sola-Landa *et al*.

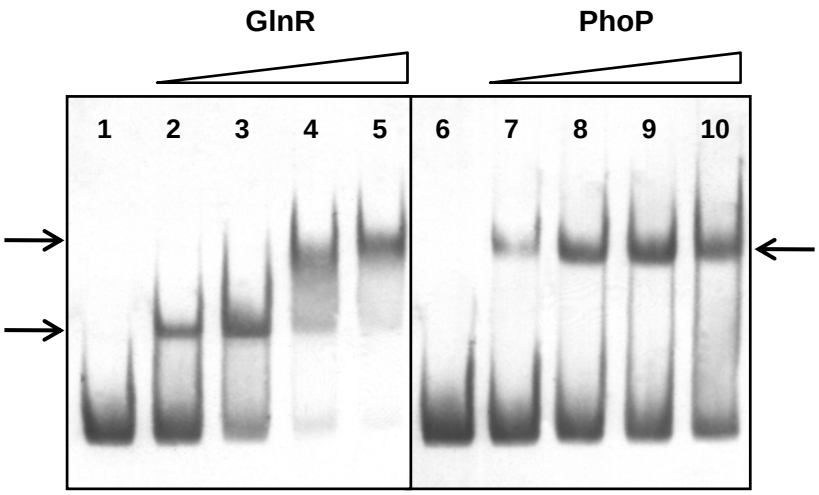


Figure S3. Sola-Landa *et al*.