Operon Promoter Landscape

Operon	Strand	Operon start	Operon end
clsA-yciU	-	1306669	1304845

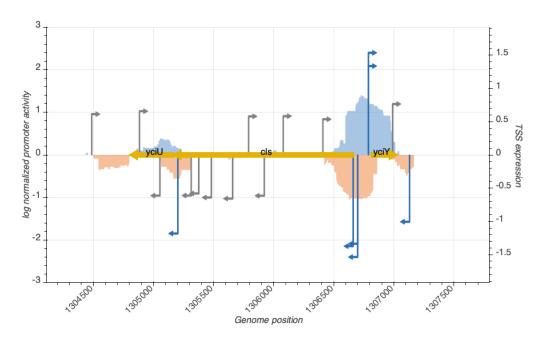




Figure 1: **Promoter activity in rich media (LB) surrounding query operon**. 17,767 previously reported TSSs were evaluated by measuring the promoter activity (right Y-axis) of the 150 bp surrounding the TSS (-120 to +30) to determine which were active or inactive. The genome-wide promoter activity (left Y-axis) was determined by measuring expression of over 300,000 genomic fragments spanning the *E. coli* genome and averaging promoter activity at all nucleotide positions in a strand-specific fashion. Genome coordinates corresponds to *E. coli* genome version U00096.2.

TSS Summary

TSS name	TSS position	Strand	TSS activity	Category
TSS_5146_regulondb	1306785	+	1.5369224	active
TSS_5145_wanner	1306695	-	1.5369224	active
TSS_5147_storz	1306986	+	0.7659024	inactive
TSS_5148_storz	1307127	-	1.0057981	active
TSS_5145_wanner	1306695	-	1.3369992	active
TSS_5146_regulondb	1306785	+	1.3369992	active

TSS Scanning Mutagenesis

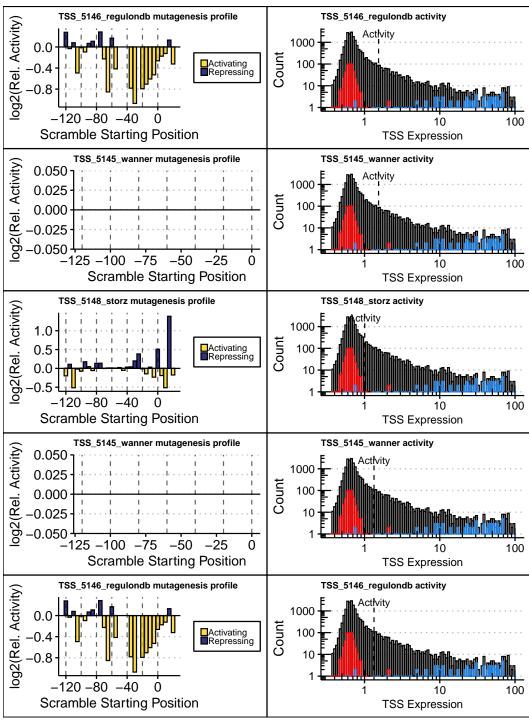


Figure 2: (Left) Mutagenesis profile(s) of active TSS(s). Sequences surrounding active TSSs were systematically mutated to identify regions controlling expression. Bar height indicates the relative change in promoter activity as a result of scrambling nucleotides within 10 bp regions at 5 bp intervals spanning the promoter. Bar color identifies the region as

a putative activator (yellow) or repressor (purple). (**Right)** Dashed line indicates the expression of the indicated TSS relative to all tested TSS sequences. The distributions of expression is shown for all tested TSSs (black), 500 negative controls (red), and a set of

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