## **Operon Promoter Landscape**

Operon	Strand	Operon start	Operon end
prlF-yhaV	+	3275024	3275823

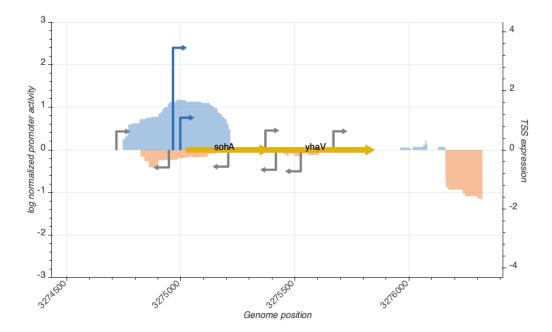


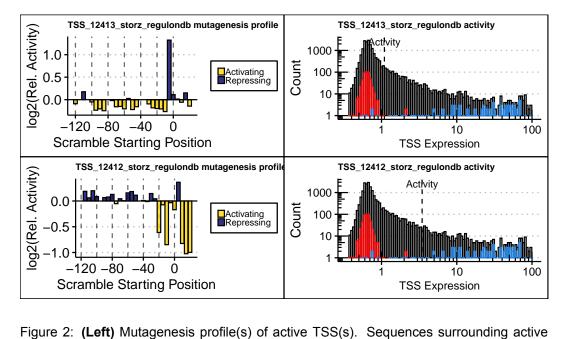


Figure 1: **Promoter activity in rich media (LB) surrounding query operon**. 17,767 previously reported TSSs were evaluated by measuring the promoter activity (right Y-axis) of the 150 bp surrounding the TSS (-120 to +30) to determine which were active or inactive. The genome-wide promoter activity (left 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_12411_storz	3274944	-	0.5928021	inactive
TSS_12410_storz	3274714	+	0.6257525	inactive
TSS_12413_storz_regulondb	3274994	+	1.0918936	active
TSS_12412_storz_regulondb	3274962	+	3.4624050	active

## TSS Scanning Mutagenesis



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 constitutive promoters from the BioBrick registry (blue).