Operon Promoter Landscape

Operon	Strand	Operon start	Operon end
ribA	-	1337184	1336594

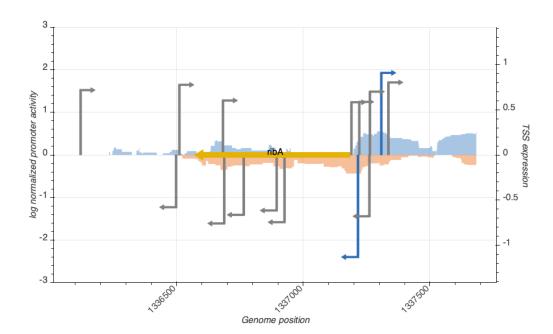


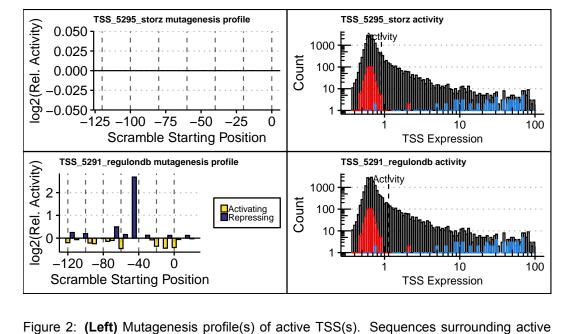


Figure 1: **Promoter activity in rich media (LB) surrounding query operon**. 17,767 previously reported TSSs were evaluated by measuring the promoter activity (right Y-axis) of the 150 bp surrounding the TSS (-120 to +30) to determine which were active or inactive. The genome-wide promoter activity (left 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_5295_storz	1337304	+	0.9099322	active
TSS_5292_regulondb	1337217	+	0.5878436	inactive
TSS_5291_regulondb	1337212	-	1.1324399	active
TSS_5290_regulondb	1337186	+	0.5842713	inactive
TSS_5296_regulondb	1337332	+	0.8038650	inactive
TSS_5294_regulondb	1337259	+	0.7014137	inactive
TSS_5293_wanner	1337257	-	0.6803807	inactive

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).