Operon Promoter Landscape

Operon	Strand	Operon start	Operon end
opgGH	+	1108558	1112629

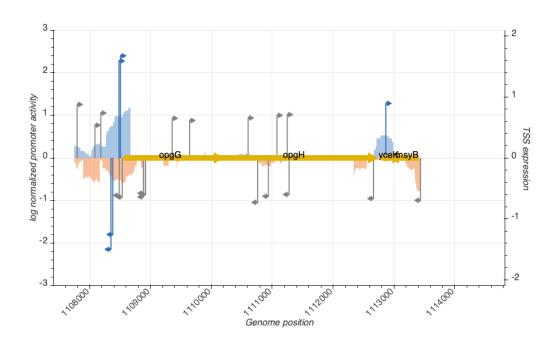


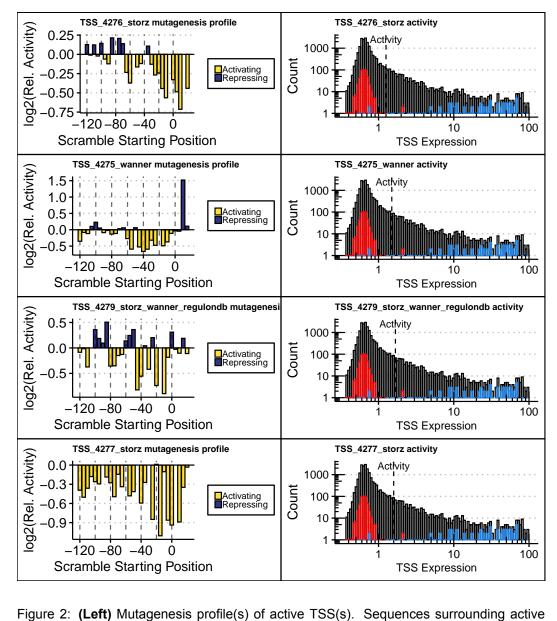


Figure 1: **Promoter activity in rich media (LB) surrounding query operon**. 17,767 previously reported TSSs were evaluated by measuring the promoter activity (right Y-axis) of the 150 bp surrounding the TSS (-120 to +30) to determine which were active or inactive. The genome-wide promoter activity (left 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_4278_storz	1108481	-	0.6139024	inactive
TSS_4276_storz	1108376	-	1.2569645	active
TSS_4275_wanner	1108345	-	1.5007782	active
TSS_4273_storz	1108082	+	0.5368769	inactive
TSS_4274_storz	1108178	+	0.7366829	inactive
TSS_4279_storz_wanner_regulondb	1108501	+	1.6766525	active
TSS_4277_storz	1108478	+	1.5907591	active
TSS_4280_storz	1108530	-	0.6441624	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).