Operon Promoter Landscape

Operon	Strand	Operon start	Operon end
yhcB	+	3378213	3378611

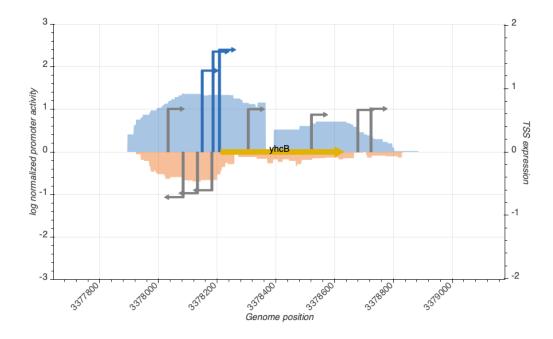


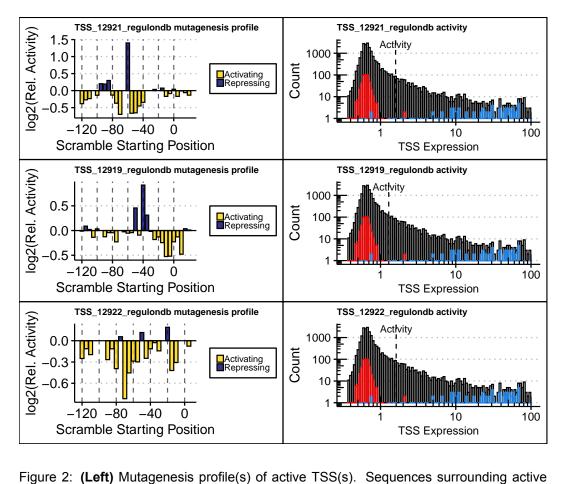


Figure 1: **Promoter activity in rich media (LB) surrounding query operon**. 17,767 previously reported TSSs were evaluated by measuring the promoter activity (right Y-axis) of the 150 bp surrounding the TSS (-120 to +30) to determine which were active or inactive. The genome-wide promoter activity (left 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_12921_regulondb	3378182	+	1.5868737	active
TSS_12919_regulondb	3378145	+	1.2858674	active
TSS_12916_storz	3378029	+	0.6798661	inactive
TSS_12922_regulondb	3378204	+	1.6154846	active
TSS_12920_regulondb	3378178	-	0.6058550	inactive
TSS_12917_wanner	3378080	-	0.7158358	inactive
TSS_12918_storz	3378129	-	0.6524152	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).