Operon Promoter Landscape

Operon	Strand	Operon start	Operon end
rfaH	-	4022844	4022356

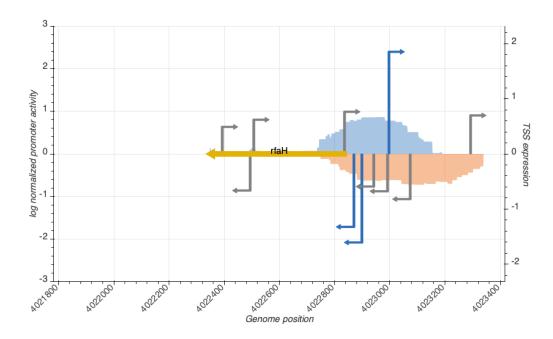


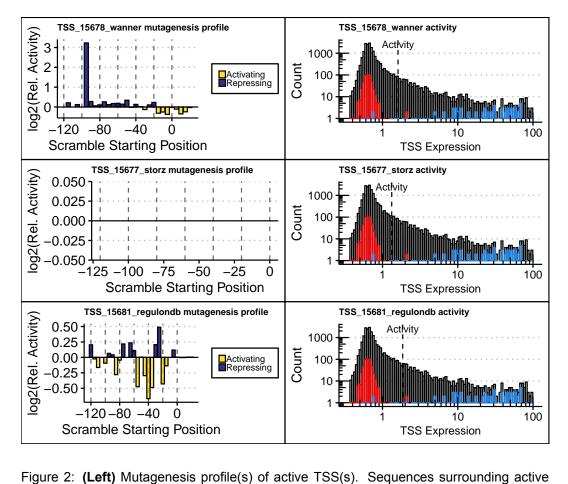


Figure 1: **Promoter activity in rich media (LB) surrounding query operon**. 17,767 previously reported TSSs were evaluated by measuring the promoter activity (right Y-axis) of the 150 bp surrounding the TSS (-120 to +30) to determine which were active or inactive. The genome-wide promoter activity (left 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_15678_wanner	4022895	-	1.6075761	active
TSS_15683_storz	4023289	+	0.6990459	inactive
TSS_15679_storz	4022938	-	0.5923353	inactive
TSS_15682_wanner	4023070	-	0.8203359	inactive
TSS_15680_regulondb	4022988	-	0.6786432	inactive
TSS_15677_storz	4022866	-	1.3243733	active
TSS_15681_regulondb	4022993	+	1.8541612	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).