Journal of Experimental Microbiology and Immunology (JEMI)

The Rcs Phosphorelay May Regulate the *E. coli* Capsule Response to Sublethal Streptomycin Treatment

Iris Luo, Josh Wiebe, Yunan Liu
Department of Microbiology and Immunology, University of British Columbia

SUPPLEMENTAL MATERIAL

TABLE S1. Experimental strains used in this study

Genotype	*E. coli* strain	Source
WT	DH5α (3)	MICB 421 strain collection, University of British Columbia
Δ *cpsB747*	JW2034 (1)	Yale University Coli Genetic Stock Centre
Δ *rcsB*	JW54371 (1)	Yale University Coli Genetic Stock Centre
Δ *rpoS746*	JW30009 (2)	Yale University Coli Genetic Stock Centre

TABLE S2. qPCR primers used in this study

Gene	Primer	Sequence (5'-3')
wzb	wzb-F	GTA AGG GCG CTG ATC CTA CC
	wzb-R	GCA TAA GCG TTC GAT ATG GCG
wzc	wzc-F	ACT ACC GCT GCT AAA CCG AC
	wzc-R	GCG GCG TAT CAA TCA ACA CC
GAPDH	gapdh-F	AGC AAC TGG TCT GTT CCT G
	gapdh-R	CCT GGC CAG CAT ATT TGT CG

TABLE S3. Additional qPCR primers, not used in this study

Gene	Primer	Sequence (5'-3')
rpoS	rposF	TAT GGC AAT CGT GGT CTG GC
	rposR	AAT CGC CCG TTC AAT CGT C
rcsB	rcsBF	GGA ACA AAG TCG TGC TAG GG
	rcsBR	TAC GGA CCG CTA TTC ATG CC

Supplementary references:

1. **Baba T, Ara T, Hasegawa M, Takai Y, Okumura Y, Baba M, Datsenko KA, Tomita M, Wanner BL, Mori H** . 2006. Construction of *Escherichia coli* K12 in- frame, single- gene knockout mutants: the Keio collection. Mol Syst Biol **2** :111.
2. **Zhou L, Lei XH, Bochner BR, Wanner BL.** 2003. Phenotype microarray analysis of *Escherichia coli* K12 mutants with deletions of all two- component systems. J Bacteriol **185**: 495649572.
3. **Bethesda Research Laboratories.** 1986. BRL pUC host: *E. coli* DH5α competent cells. Focus **8(2):** 9.