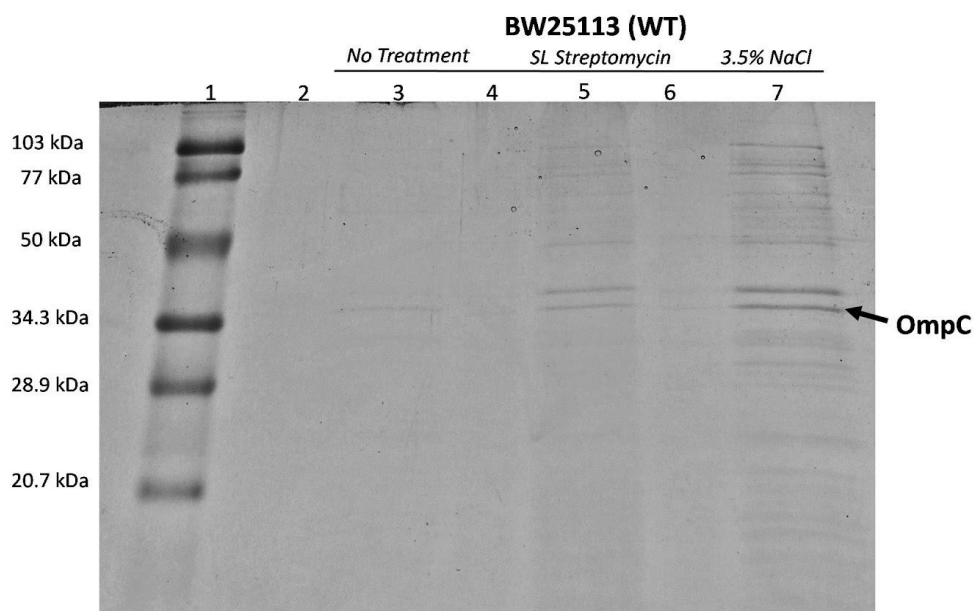


# Development of a System to Monitor ompC Transcription in *Escherichia coli* Using a Green Fluorescence Protein Reporter System

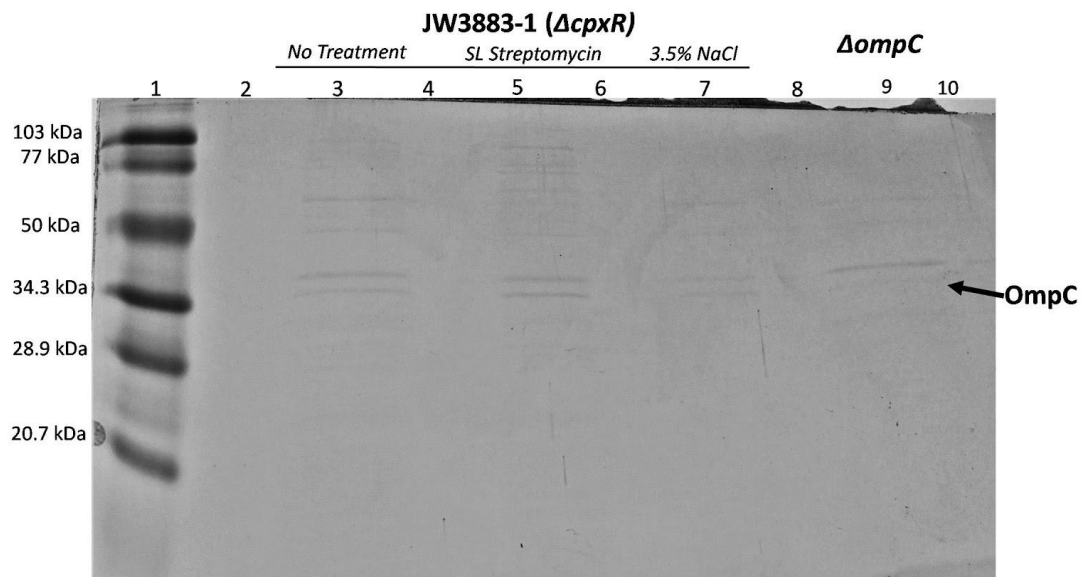
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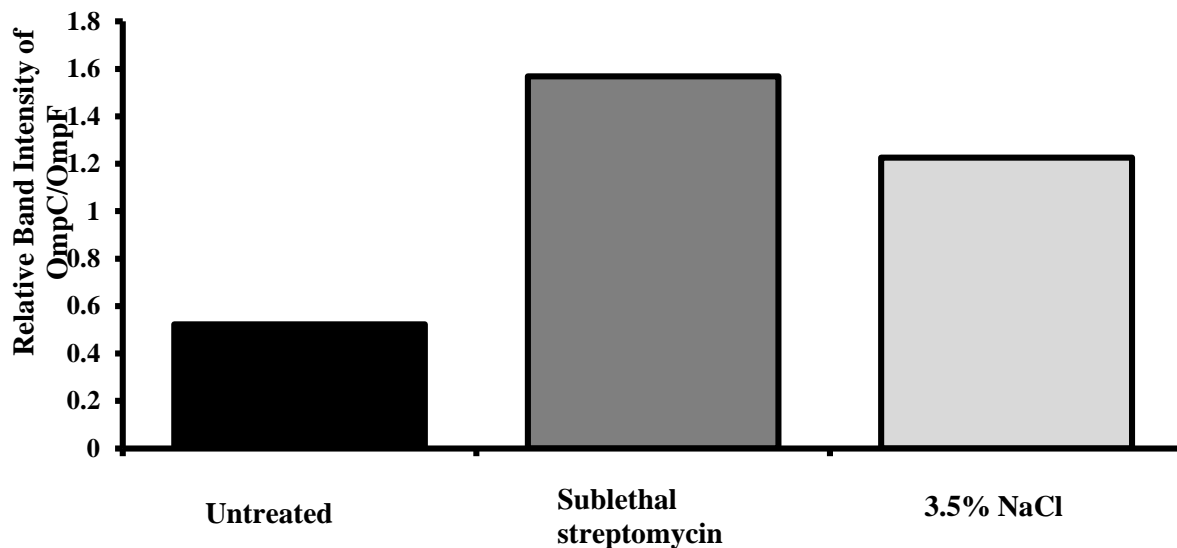
## SUPPLEMENTAL MATERIAL



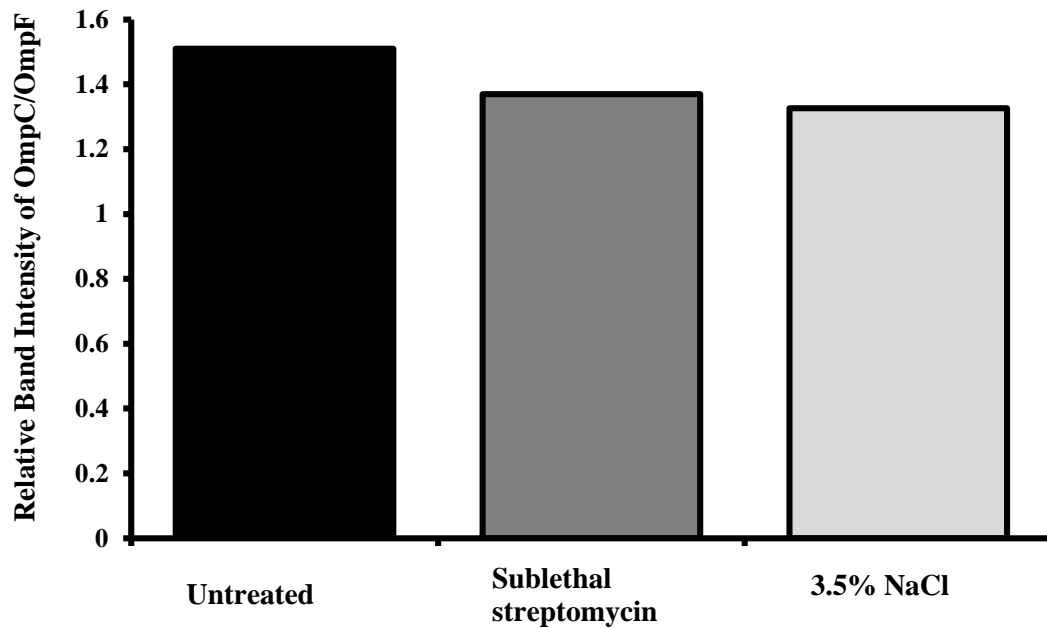
**FIG S1. Effect of 1 hour of sublethal streptomycin treatment on wild type *E. coli* BW25113 strain.** Lane 1 contains the prestained Bio-Rad low range protein standard. Lanes 3, 5, and 7 contains 0.5µg of total protein loaded in 30µL sample volume. Lanes 2, 4, 6 were left empty to capture overflow from sample lanes. The gel was stained using Coomassie Brilliant Blue R-250. OmpC is identified at 38kDa.



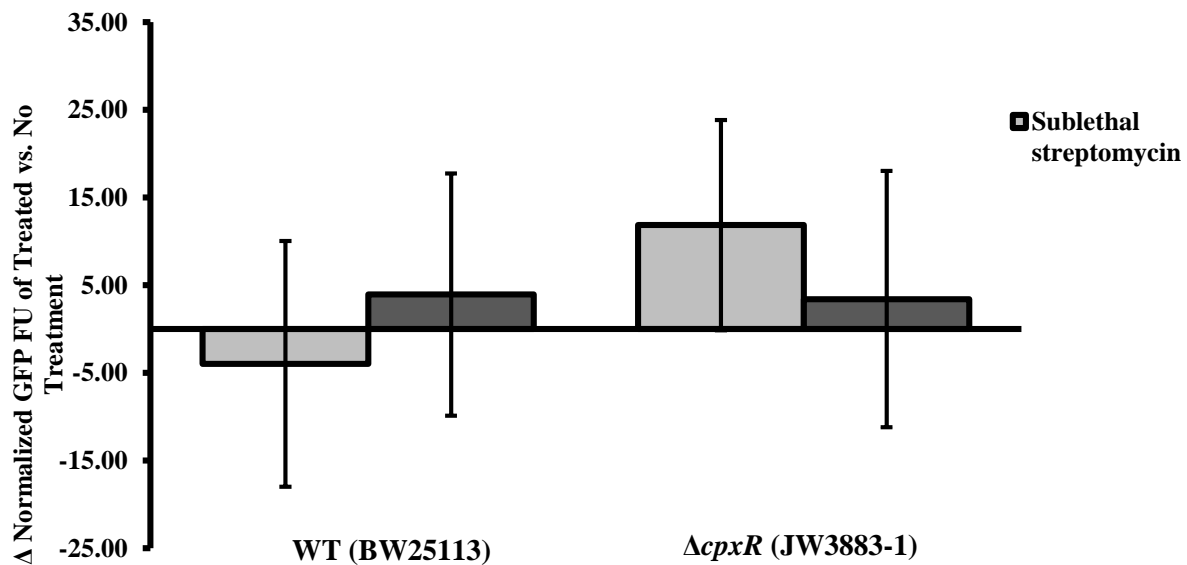
**FIG S2. Effect of 1 hour of sublethal streptomycin treatment on *E. coli*  $\Delta cpxR$  JW3883-1.** Lane 1 contains the prestained Bio-Rad low range protein standard. Lanes 3, 5, and 7 contains 0.5 $\mu$ g of membrane protein loaded in 30 $\mu$ L sample volume. Lanes 2, 4, 6, 8 were left empty to capture overflow from sample lanes. Lane 9 contained 0.5 $\mu$ g membrane protein from *E. coli*  $\Delta ompC$  JW2203. The gel was stained using Coomassie Brilliant Blue R-250. OmpC is identified at 38kDa.



**FIG S3. Relative expression of OmpC in *E. coli* BW25113 under no treatment, sublethal streptomycin or 3.5% NaCl conditions.** Following ImageJ analysis, the area of the OmpC band was normalized to the area of the OmpF band for relative intensity to account for amount of protein loaded onto the gel. Data is based off digital photos of the SDS-PAGE gel stained with Coomassie Brilliant Blue R-250.



**FIG S4. Relative expression of OmpC in *E. coli* JW3883-1 under no treatment, sublethal streptomycin or 3.5% NaCl conditions.** Following ImageJ analysis, the area of the OmpC band was normalized to the area of the OmpF band for relative intensity to account for amount of protein loaded onto the gel. Data is based off digital photos of the SDS-PAGE gel stained with Coomassie Brilliant Blue R-250.



**FIG S5. Difference in normalized GFP fluorescence units (FU) of one hour treated (sublethal streptomycin or 3.5% NaCl positive control) vs. untreated (no treatment) *E. coli* JW3883-1 and BW25113.** The error bars represent the standard deviations between the averaged difference between treated and untreated conditions in each of five trials.