



Figure S2 Class I, EnvZ activates *hilA* expression via post-translational control of HilD. (A) β -galactosidase activity in strains containing a *hilA-lac* transcriptional fusion and the indicated mutations after growth under SPI1 inducing conditions. (B) β -galactosidase activity of strains containing a *hilA-lac* transcriptional fusion and indicated mutations with *rtsA* under the control of a tetracycline regulated promoter. Strains were grown under SPI1-inducing conditions with the indicated tetracycline concentrations. (C) β -galactosidase activity in strains containing a *hilD-lac* transcriptional or a *hilD'-lac* translational fusion and the indicated mutations after growth under SPI1 inducing conditions. β -galactosidase activity units are defined as $(\mu\text{mol of ONP formed min}^{-1}) \times 10^3 / (\text{OD}_{600} \times \text{ml of cell suspension})$ and are reported as mean \pm standard deviation where $n=4$.