



Figure S2. Activation of the SPI1 gene circuit.

(A). Comparison of time-course dynamics of P_{hilD} (pSS072) promoter activities in wild type (black) and a $\Delta SPI1 \Delta rtsA$ mutant (CR349, grey) as determined using green fluorescent protein (GFP) transcriptional fusions and flow cytometry. (B) Comparison of P_{hilC} (pSS075, black) and P_{rtsA} (pSS076, red) promoter activities in wild type (solid lines) and a $\Delta hilD$ mutant (JS253, dashed lines). Note that the P_{rtsA} promoter is off in the absence of HilD. (C) Dynamics of P_{hilC} (pSS073) promoter activities in a $\Delta hilD$ mutant (JS253) as determined using green fluorescent protein (GFP) transcriptional fusions and flow cytometry. Note that, in the absence of HilD, the activation of the P_{hilC} promoter is no longer switch-like but instead continuous. Experiments were performed as described in Figure 1.