

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: A movie of $\Delta rsbRU$ biofilm formation showing the development of the σB expression gradient and wrinkle formation. PsigA-RFP in red, PsigB-YFP in green. The time is in hours and minutes from inoculation.

File Name: Supplementary Movie 2

Description: A movie of $\Delta rsbRU$ biofilm formation tracking a single cell showing the expression of PsigA-RFP (red line) and PsigB-YFP (green line) and demonstrating pulsatile PsigB-YFP expression.

File Name: Supplementary Movie 3

Description: A movie of $\Delta rsbRU$ 2 \times rsbQP biofilm formation showing single cells expressing PsigA-RFP (red) and PsigB-YFP (green) and demonstrating PsigB-YFP pulsatile expression. The time is in hours and minutes from inoculation.