

Supplement Figure S2. PCR analysis of double sigma factor inactivation strains of *Synechocystis* sp. PCC 6803. Genomic DNA was isolated from the control and double inactivation strains. PCR was performed with primers flanking the coding region of the sigC gene for the control (lane 2) and $\Delta sigBC$ (lane 3) strains, with primers flanking the coding region of the sigD gene for the control (lane 4) and $\Delta sigBD$ (lane 5) and $\Delta sigCD$ (lane 6), with primers flanking the coding region of the sigE gene for the control (lane 7) and $\Delta sigBE$ (lane 8) and $\Delta sigCE$ (lane 9) and $\Delta sigDE$ (lane 10) strains. The length of the PCR product is 1018 in lane 2, 3078 in lane 3, 752 bp in lane 4, 2812 bp in lanes 5 and 6, 1110 bp in lane 7 and 3170 bp in lanes 8, 9, and 10. The DNA markers are shown in lanes 1 and 11.