

**Fig. S2.** Time course of gross photosynthetic O<sub>2</sub>evolution rates (A) and Y(II) (B) in the induction phase of photosynthesis in S. 6803 WT (black circles) and  $\Delta flv1/3$  (red triangles). CO<sub>2</sub>-saturated conditions were generated by adding 10 mM NaHCO<sub>3</sub> to the reaction mixture. Actinic light (240 µmol photons m<sup>-2</sup> s<sup>-1</sup>) was turned on at time zero. Data are represented as the mean  $\pm$  SD of three independent measurements. Differences in Y(II) between S. 6803 WT and  $\Delta flv1/3$  were analyzed using Student's *t*-test. Asterisks indicate statistically significant differences between S. 6803 and  $\Delta flv1/3$  at p < 0.05.

Figure S2