



**Supplementary Figure 6. Cta1 is not required for survival during the primary phosphate starvation, and is not as important for ASR with mild H<sub>2</sub>O<sub>2</sub> used as the primary stress.** (A) (Left) Deleting *cta1* and the OSR TF, *yap1*, had no defect on survival under phosphate starvation, while deletion of *pho4*, which is responsible for the PHO response, showed severe growth defects. Mid-log phase cells of the indicated genotypes were spotted on no phosphate SC plates, incubated at 30°C for 48 hours. (Right) Same as (Left) but spotted onto SC plates with 7.5 mM Pi. All images are representatives of >3 biological replicates. (B) *CTA1*'s importance for ASR is dependent on the primary stress type. ASR for wild type and *cta1*Δ were tested with various primary stresses, including phosphate starvation (-Pi), glucose starvation (-Glu, 0.02% glucose), mild H<sub>2</sub>O<sub>2</sub> (1.5 mM H<sub>2</sub>O<sub>2</sub>). ASR experiment was performed as described in the text.