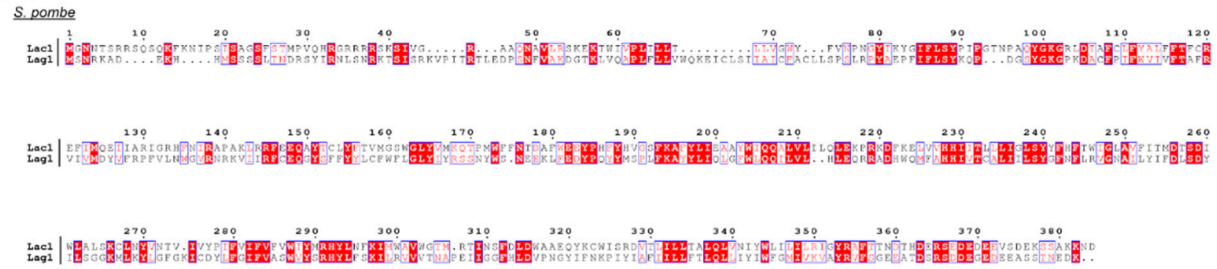
## Supplementary Materials

A




B


C

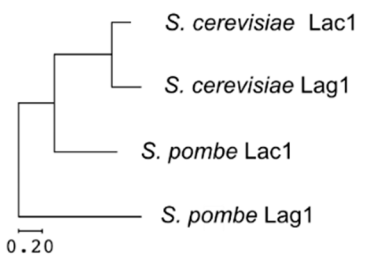


**Figure S1.** (**A**) Upper panel: sequence alignment between Lac1 subunits in fission and budding yeast. Lower panel: sequence alignment between the Lag1 subunits in fission and budding yeast. (**B**) Sequence alignment between ceramide synthase subunits in *S. pombe*, Lac1 and Lag1. White characters on red boxes denote identical residues, and red characters on white boxes denote conserved residues. (**C**) A phylogenetic tree using maximum-likelihood statistical method. Horizontal lines are proportional to the substitution rate. The bar represents 0.20 changes per amino acid. In panels A and B, white characters on red boxes denote identical residues, and red characters on white boxes denote conserved residues.

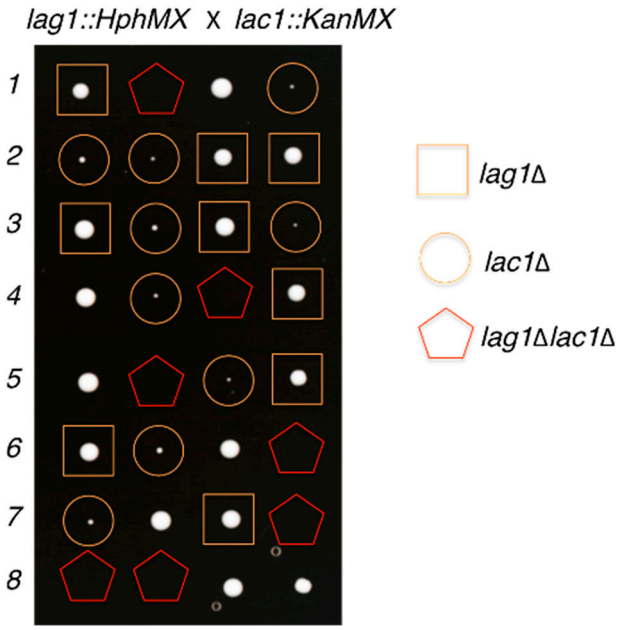



**Figure S2.** Deletion of Lac1 and Lag1 in *S. pombe* is lethal. Tetrad analysis of the indicated strains in Yes media at 25 °C.