Influence of ylHog1 MAPK kinase on *Yarrowia lipolytica* stress response and erythritol production – Supplementary Information

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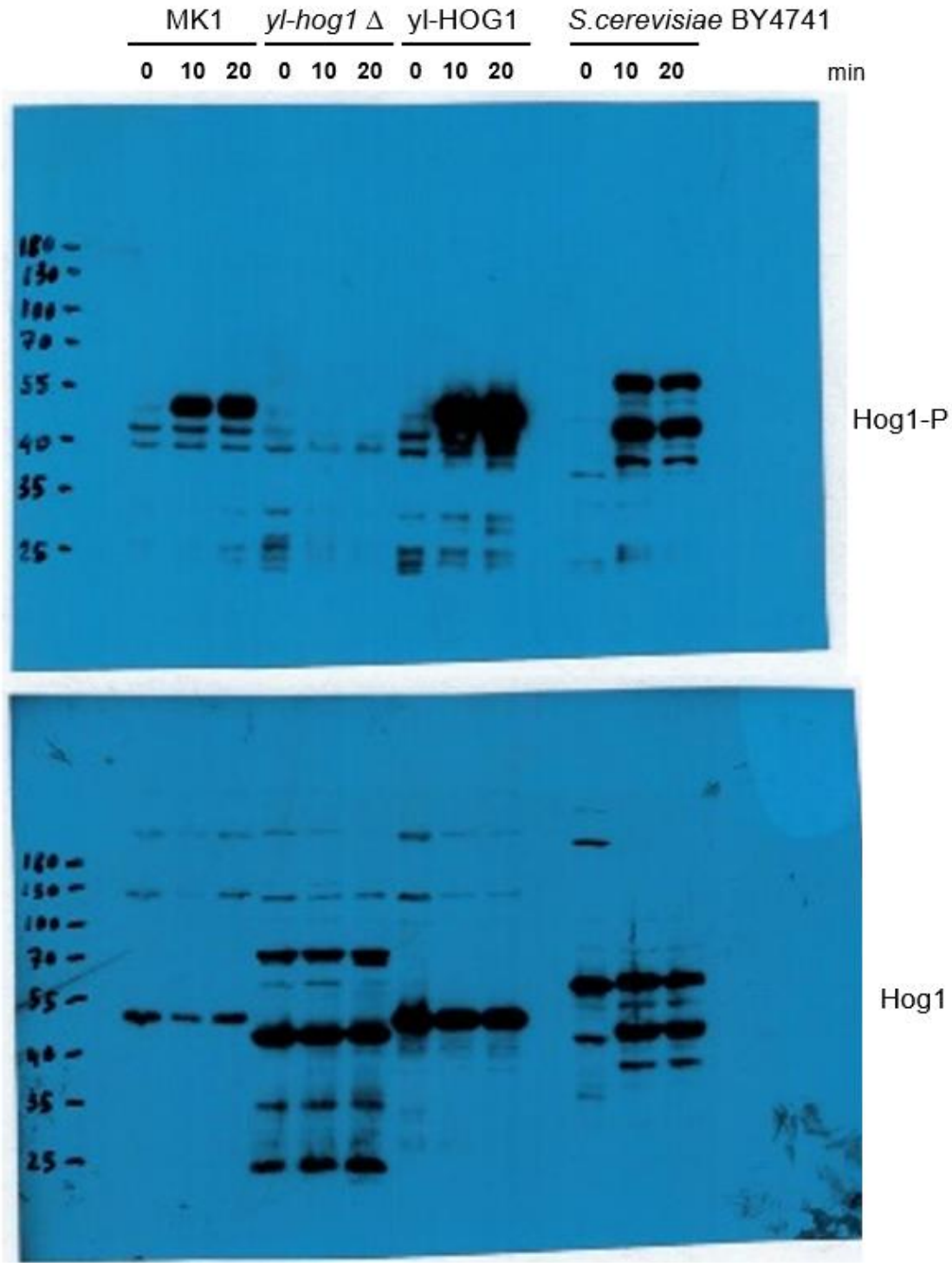

Fig 1 Western-blot analysis of whole cell extracts isolated from *Y. lipolytica* wild type (MK1), yl-hog1Δ and yl-HOG1 cells after treatment with 1M NaCl for the specified times. The active form of protein (Hog1-P) was detected using an anti-phospho p38 antibody (upper panel).

Total levels of yl-Hog1 protein were determined by probing the blot with an anti-Hog1 antibody (lower panel). *S. cerevisiae* BY4741 was used as a positive control and was processed parallel to *Y. lipolityca* samples. *S. cerevisiae* Hog1 is bigger than *Y. lipolytica* homologue and is visible as the upper band. Unspecific lower band might be a result of optimisation of protocol for *Y. lipolytica.*

PageRuler™ Prestained Protein Ladder, 10 to 180 kDa was used as a marker. The bands of marker were visible on membrane blot, and copied manually on the photographic film.