

## Microscopy

### Filename: Strains

BY4741 *guk1-7-GFP*: Wild type strain with *guk1-7-GFP*

*ssa1delta ssa2delta guk1-7-GFP*: *SSA1/SSA2* double knockout strain with *guk1-7-GFP*

*ssa1delta ssa2delta SSA4OE guk1-7-GFP*: *SSA1/SSA2* double knockout strain with over expression of *SSA4* through the GPD promoter and with *guk1-7-GFP*

### Filename: Treatments

Control: Pre-heat shocked cells

HS 30 min: Heat shock at 42 °C for 30 minutes

rec 20 min: Post-heat shock recovery at 30 °C for 20 minutes

rec 40 min: Post-heat shock recovery at 30 °C for 40 minutes

rec 60 min: Post-heat shock recovery at 30 °C for 60 minutes

### Imaging details

Images were obtained using a conventional fluorescence microscope, a Zeiss Axio Observer.Z1 inverted microscope with Apotome and AxioCam 506 camera, and a Plan-Apochromat 100x/1.40 Oil DIC M27 objective. All images were acquired as Z-stacks with 10 slices over a 5 µm range.

Channel 1: EGFP (38 HE Green Fluorescent Protein, λEx.: BP 470/40, Beamsplitter: FT 495, λEm.: BP 525/50), exp. time: 150 ms

Channel 2: Transmitted light DIC, exp. time 10 ms