

Microscopy

Filename: Strains

WT pguk1-7-GFP pSik1-RFP DAPI: Wild type strain with guk1-7-GFP and Sik1-RFP stained with DAPI

ss1-2DD/ssa1-2DD pguk1-7-GFP pSik1-RFP DAPI: *SSA1/SSA2* double knockout strain with guk1-7-GFP and Sik1-RFP stained with DAPI

ssa1-2DD Ssa4OE pguk1-7-GFP pSik1-RFP DAPI: *SSA1/SSA2* double knockout strain with over expression of *SSA4* through the GPD promoter and with guk1-7-GFP and Sik1-RFP stained with DAPI

Ssa4OE pguk1-7-GFP pSik1-RFP DAPI: Strain with over expression of *SSA4* through the GPD promoter and with guk1-7-GFP and Sik1-RFP stained with DAPI

Filename: Treatments

cont: Pre-heat shocked cells

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

rec 40 min: Post-heat shock recovery at 30 °C for 40 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: 200 ms

Channel 2: mRF12 (45 Texas Red, λEx.: BP 560/40, Beamsplitter: FT 585, λEm.: BP 630/75), exp. time: 500 ms

Channel 3: DAPI (49 DAPI, λEx.: G 365, Beamsplitter: FT 595, λEm.: BP 445/50), exp. time: 100 ms

Channel 2: Transmitted light DIC, exp. time 25 ms