

Microscopy

Filename: Strains

WT 1/2/3 Ssa4GFP Mca1RFP: Wild type clone one, two or three with Mca1-RFP and Ssa4-GFP

cl 1/2 Ssa4GFP Mca1RFP ssa12dd/WT 2/3 Ssa4GFP Mca1RFP ssa12dd: Clone one, two or three of SSA1/SSA2 double knockout strain with Mca1-RFP and Ssa4-GFP

Filename: Treatment

ctrl: Control sample taken before heat shock

42, 30 min: Heat shock at 42 °C for 30 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 20 ms

Channel 3: RFP (45 Texas Red, λEx.: BP 560/40, Beamsplitter: FT 585, λEm.: BP 630/75 exp. time: 150 ms