

Microscopy

Filename: Strains

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

BY4741 *hsp104D guk1-7-GFP*: *HSP104* knockout strain with *guk1-7-GFP*

BY4741 *ssa12DD guk1-7-GFP*: *SSA1/SSA2* double knockout strain with *guk1-7-GFP*

BY4741 *hsp104D ssa12DD guk1-7-GFP*: *SSA1/SSA2/HSP104* triple knockout strain with *guk1-7-GFP*

BY4741 *ssa12DD SSA4OE guk1-7-GFP*: *SSA1/SSA2* double knockout strain with over expression of *SSA4* through the GPD promoter and with *guk1-7-GFP*

BY4741 *hsp104D ssa12DD SSA4OE guk1-7-GFP*: *SSA1/SSA2/HSP104* triple knockout strain with over expression of *SSA4* through the GPD promoter and with *guk1-7-GFP*

Filename: Treatment

ctrl: Control sample taken at mid-exponential growth

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, $\lambda\text{Ex.}$: BP 470/40, Beamsplitter: FT 495, $\lambda\text{Em.}$: BP 525/50), exp. time: 150 ms

Channel 2: Transmitted light DIC, exp. time 20 ms