Identification of Gbp2p as a novel poly(A)$^+$RNA binding protein in yeast involved in the cytoplasmic delivery of mRNAs

Supplementary Material

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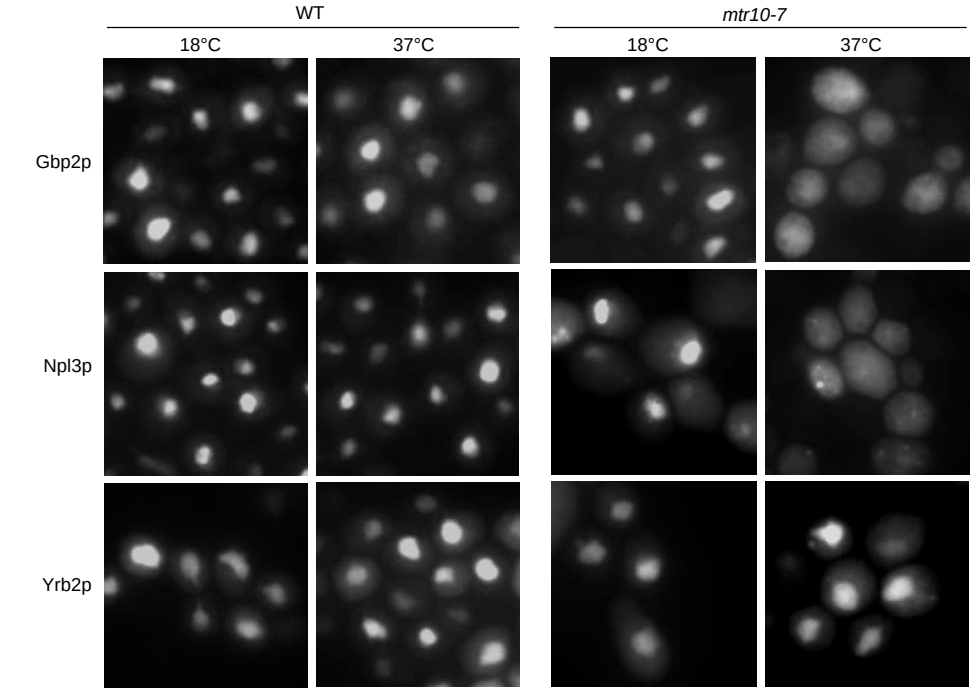
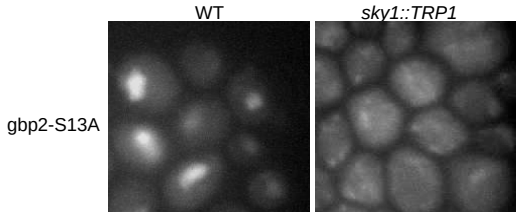
S. Fig. 1. Gbp2p is a shuttling protein. Wildtype and *mtr10-7* strains expressing Gbp2p, the shuttling protein Npl3p or the nuclear protein Yrb2p as GFP fusions from the inducible *GAL1* promoter were grown in glucose containing selective medium to 5 x 10^6 cells/ml before they were incubated in raffinose medium for 16 hours at 18°C to grow to a density of ~1 x 10^7 cells/ml. Synthesis of the fusion protein was then induced by adding galactose to the medium. After two hours the *GAL1* promoter was repressed for one hour by the addition of glucose. Finally cells were shifted to 37°C for one hour to induce the mutant phenotype of *mtr10-7*, thus resulting in a block of Mtr10p-dependent import. The subcellular localization of the GFP fusion proteins was determined by fluorescence microscopy.

S. Fig. 2. Mutant gbp2-S13A is mislocalized to the cytoplasm of a *sky1* null. Wildtype or *sky1::TRP1* strains expressing gbp2-S13A fused to GFP were grown to the logarithmic growth phase and the localization was determined by fluorescence microscopy.

S. Fig. 1


WT
mtr10-7
18°C
37°C
18°C
37°C
Gbp2p
Npl3p
Yrb2p

S. Fig. 2.


WT
sky1::TRP1
gbp2-S13A