

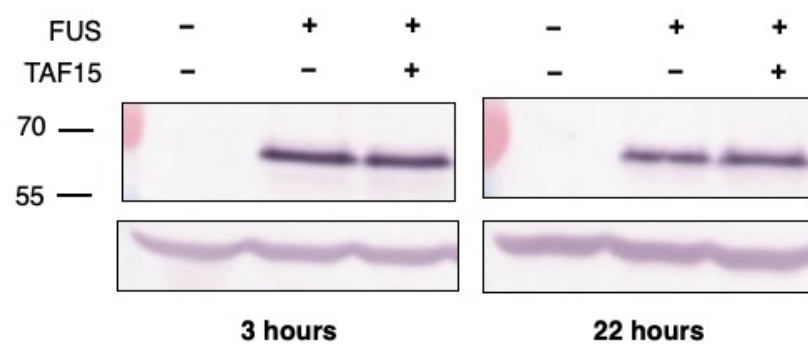
Supplementary Figure legends

Figure S1. TAF15 does not change protein levels of FUS. Protein expression was examined in 1XFUS model transformed with an empty vector or TAF15 expression plasmid. Yeast containing two empty vectors was used as a control strain without FUS or TAF15 expression. Protein expression was induced with 2% galactose and proteins were harvested from the yeast at 3 and 22 hours as indicated. Western blot was performed using an antibody against FUS and the loading control protein PGK1. The cropped images of Western blots were shown here for the purpose of clarity. The full-length blots are presented in Supplemental Figure S4.

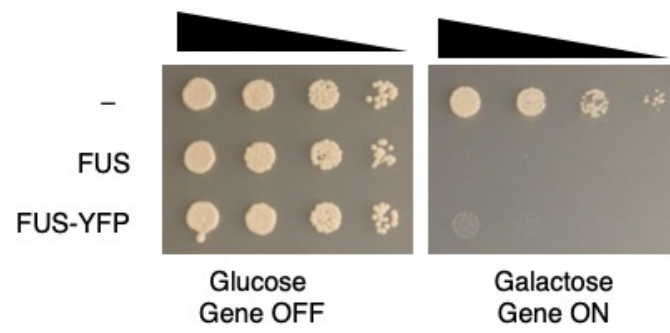
Figure S2. FUS-YFP on a centromere plasmid shows comparable toxicity as non-tagged FUS integrated into genome. Serial dilution growth assay was performed using wild-type yeast transformed with the vector control pRS415Gal1ccdB (-), non-tagged FUS pRS303Gal1FUS integrated into to the genome (FUS), and C-terminal YFP tagged FUS pRS413Gal1FUS-YFP (FUS-YFP). The picture shown was taken after 2 days growth at 30°C incubation, and is a representative of three independent experiments.

Figure S3. FUS induces and colocalizes with stress granules. (A) Yeast strains expressing the stress granule marker, Pab1-mCherry, was transformed with YFP, FUS-YFP plasmids. Yeast grown overnight in media containing raffinose was induced with 2% galactose for 6 hours. Imaging was performed at 100X magnification in YFP or TxRed and BF channels. **(B)** Yeast strains expressing the stress granule marker, Pab1-mCherry, were transformed with ECFP, ECFP-TAF15 plasmids. Yeast grown overnight in media containing raffinose was induced with 2% galactose for 6 hours. Imaging was performed at 100X magnification in CFP or TxRed and BF channels. Images are representative of three independent experiments. Scale bar – 2µm.

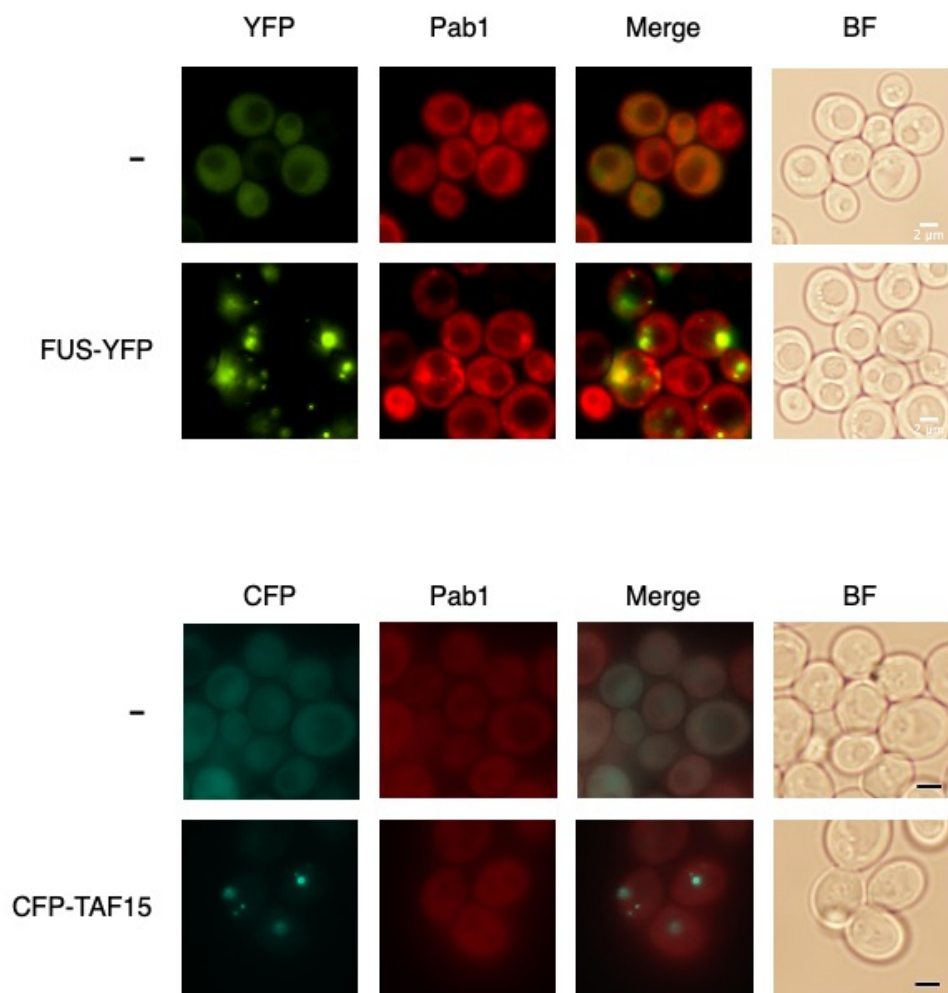
Supplemental Figure S1



Supplemental Figure S2



Supplemental Figure S3



Supplemental Figure S4

Uncropped Original Images of the Western Blots

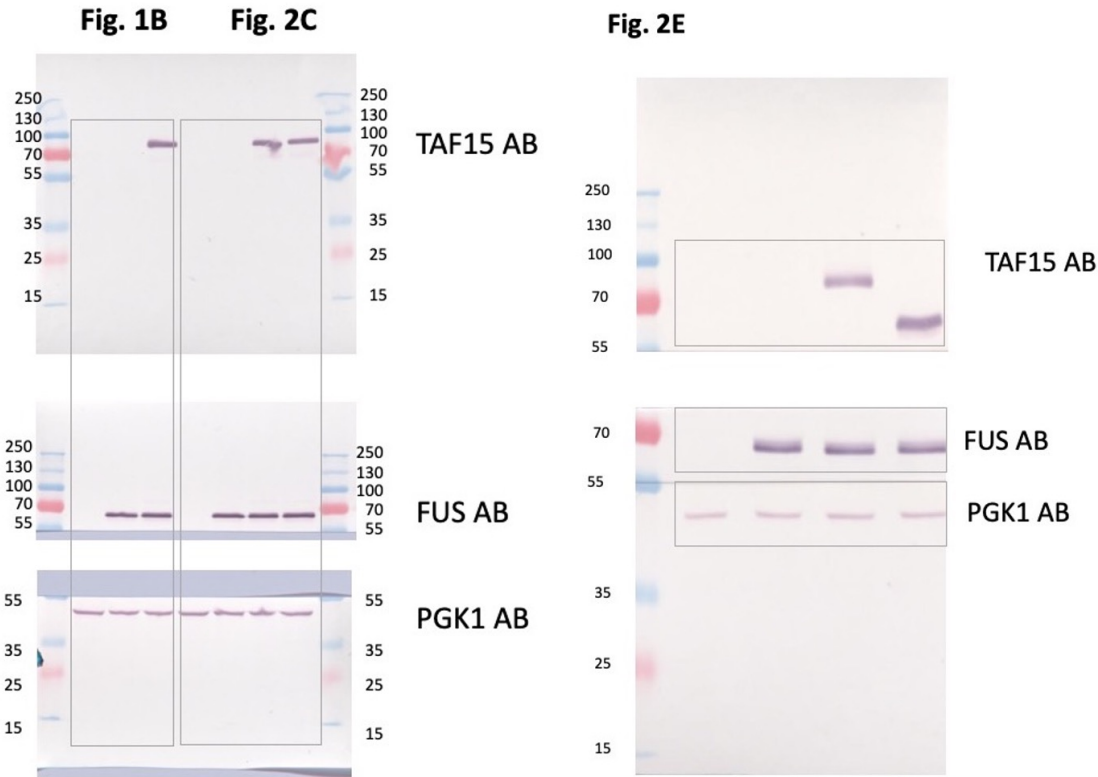


Fig. S1

