

**Figure S1.** Dynamics of tFT-fusion proteins in different *pmtΔ* strains. Differences in fluorescence intensities of mCherry and sfGFP are compared between mutant and wildtype strain (Δ-score) and summarized in an ordered dot plot. A negative Δ-score indicates a prolonged lifetime of the tFT-fusion protein in the mutant compared to the wildtype, while a positive Δ-score indicates destabilizing effects and a higher turnover of protein. Measurements were performed by high throughput fluorescence microscopy of triplicates. Proteins with multiple results were spotted on multiple plates for internal control. Results are shown as a measure of variance between experiments.