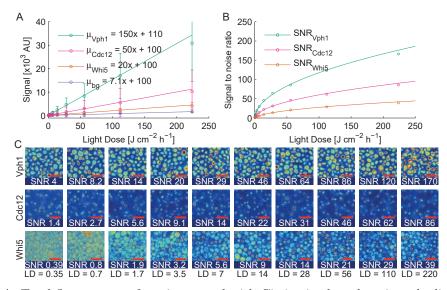
Figure S17: Background, brightness and SNR of *S. cerevisiae* strains tagged with Citrine



A: Total fluorescence of strains tagged with Citrine is plotted against the light dose (based on a measurement with 5 min interval time). Every point indicates a measurement (mean \pm standard deviation are shown). The total fluorescence is linearly correlated with the light dose. The light dose dependent in vivo brightness is obtained by subtracting the background signal (μ_{bg}) from total signal (μ_{Vph1} , μ_{Cdc12} or μ_{Whi5}). The resulting slopes of the linear functions depend on the abundance of the tagged protein and the brightness of the fluorescent protein. B: Signal-to-noise ratio for strains tagged with Citrine at different light doses. C: False colored fluorescence images of cells expressing different Citrine fusion proteins at different light doses. Images are contrast enhanced by stretching the histogram between 1% of the highest and lowest pixel values. SNR values were calculated for each image and are displayed inside the corresponding images. Pictures correspond to data points in Panel A & B and light doses are shown below the images. Scale bars represent 10 μ m.