

FIGURE S1. Additional measures of fluorescence. The relative green fluorescence of three tested GFPs expressed from the intermediate TEF2p promoter was assessed by **(a)** microscopy and **(b)** flow cytometry. n = 1; 10,000 cells/strain. **(c)** Representative histograms of green fluorescence intensity measured by flow cytometry of wild type cells and a strain with TDH3p-GFP integrated at Site 1. These data correspond with a subset of Figure 2f Fluorescence microscopy of yeast with RFP-tagged markers **(d)** RFP-Vps1, **(e)** Snf7-RFP, **(f)** RFP-Vam3 and **(g)** Pex25-GFP displaying changes in localization as promoter strength increases RPL18Bp < TEF2p < TDH3p. n = 2. Scale bars indicate 2 μ m.