



Figure 6. Regulation of bud morphology is dependent upon *NAP1* expression level. **A:** Live cells from the indicated strains were examined by DIC microscopy. **B:** Diagram illustrating the method for calculating relative bud length. **C:** MIFC analysis of bud morphology. A bivariate plot of the aspect ratio and relative bud length from the brightfield channel was generated from the in-focus population. From the gathered images, 20 cells were visually identified as bearing elongated buds and the tagged populations were overlaid on the original plot, as indicated by the red crosses. Boxed region defines cells with elongated buds, where bud length is >1.5 times the bud width and the aspect ratio is <0.5. **D:** Images of cells with indicated relative bud length as determined by MIFC. From left to right, the overlaid images, SYTOX, and brightfield channels are displayed. **E:** Bar graph indicates the percentage of the population with elongated buds as determined in C, from each of the three indicated strains.