Supplementary Figure 1. Calibration curves generated to convert $\frac{410}{480}$ ratios into $pH_c$ values. Fluorescence intensities of individual cells were determined using the Nikon inverted (A) and Keyence (B) fluorescence microscopes. A detailed description of the procedure is given in the Materials and Methods section. Mean values and standard deviations were obtained from three biological replicates.
Supplementary Figure 2. Average pH\textsubscript{c} values of CEN.PK113-7D cells during a shift to acetic acid containing medium. The pH\textsubscript{c} values of at least 85 individual cells were determined before (time point 0) and at different time points after a shift to synthetic medium containing 96 mM (black bars) or 120 mM (white bars) acetic acid (pH 4.5). Mean values and standard deviations were obtained from three biological replicates.
Supplementary Figure 3. Correlation between the maximal pH drop and the duration of the lag phase upon acetic acid stress. Data are shown for 319 individual cells from CEN.PK113-7D exposed to 96 mM acetic acid (pH 4.5).