



Supplemental Figure 2: Changes in the spectral properties of mRuby at pH extremes. (a) The increasing absorption at ~390 nm along with the decrease of the ~463 nm band of the protonated mRuby chromophore indicates the destruction of the acylimine bond of the chromophore over a period of 3.5 h time at pH 1.3. (b) Changes in the absorption spectrum of mRuby during a 1-h time course of alkaline denaturation at pH 13. (c) Time-dependent fluorescence decay of mRuby at pH 13 in comparison to other monomeric FPs, measured at their emission maxima.