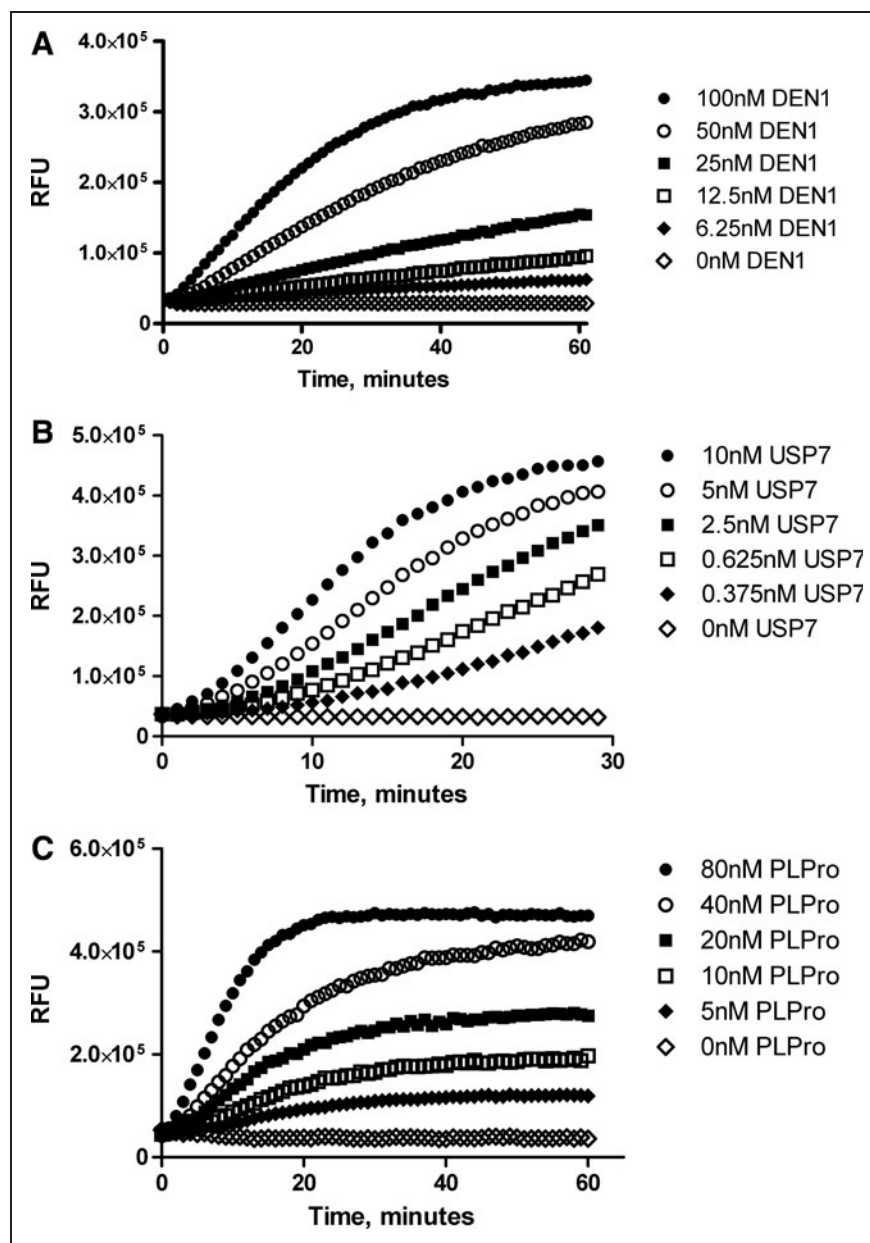
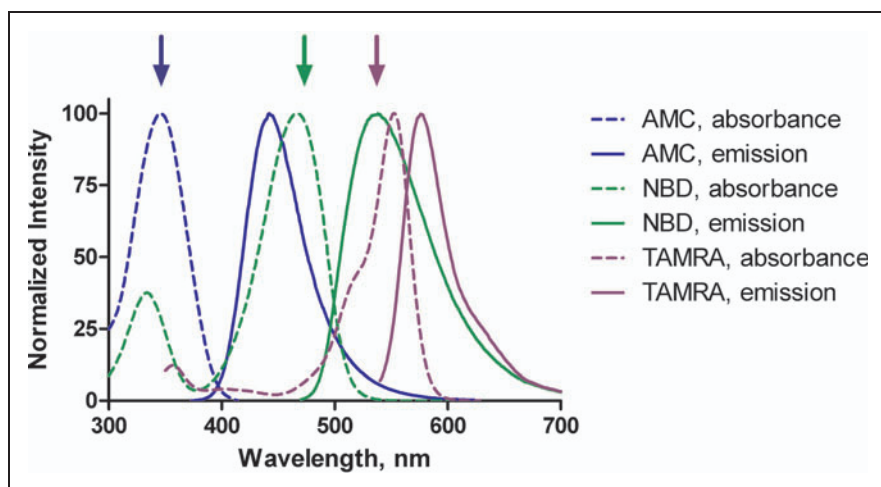


SUPPLEMENTARY DATA



Supplementary Fig. S1. Detection of various ubiquitin/ubiquitin-like protease activities with ubiquitin-EK_L system. **(A)** Increasing concentrations of DEN1 (0 nM ◇, 6.25 nM ◆, 12.5 nM □, 25 nM ■, 50 nM ○, 100 nM ●) were incubated with 100 nM NEDD8-EK_L, 20 nM of EK_L substrate I. Fluorescence was measured at ex485/em531. **(B)** Increasing concentrations of USP7 (0 nM ◇, 0.375 nM ◆, 0.625 nM □, 2.5 nM ■, 5 nM ○, 10 nM ●) were incubated with 10 nM Ubiquitin-EK_L and 20 nM of EK_L substrate I. **(C)** Increasing concentrations of PLPro (0 nM ◇, 5 nM ◆, 10 nM □, 20 nM ■, 40 nM ○, 80 nM ●) were incubated with 50 nM ISG15-EK_L and 20 nM of EK_L substrate I. EK_L, enterokinase light chain; USP, ubiquitin-specific protease.



Supplementary Fig. S2. Absorbance and emission spectra of the fluorophores used in this study. Spectra of AMC, NBD, and TAMRA were obtained from Invitrogen. Dotted lines represent absorbance spectra and solid lines represent emission spectra. AMC is shown in blue, NBD in green, and TAMRA in purple. Arrows represent the excitation wavelengths used in this article (blue for AMC, green for NBD, and purple for TAMRA). AMC, 7-amino-4-methylcoumarin; TAMRA, carboxytetramethylrhodamine.