

Supporting information

A novel NIR-FRET biosensor for reporting PS/ γ -secretase activity in live cells

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Supplemental Figure 1

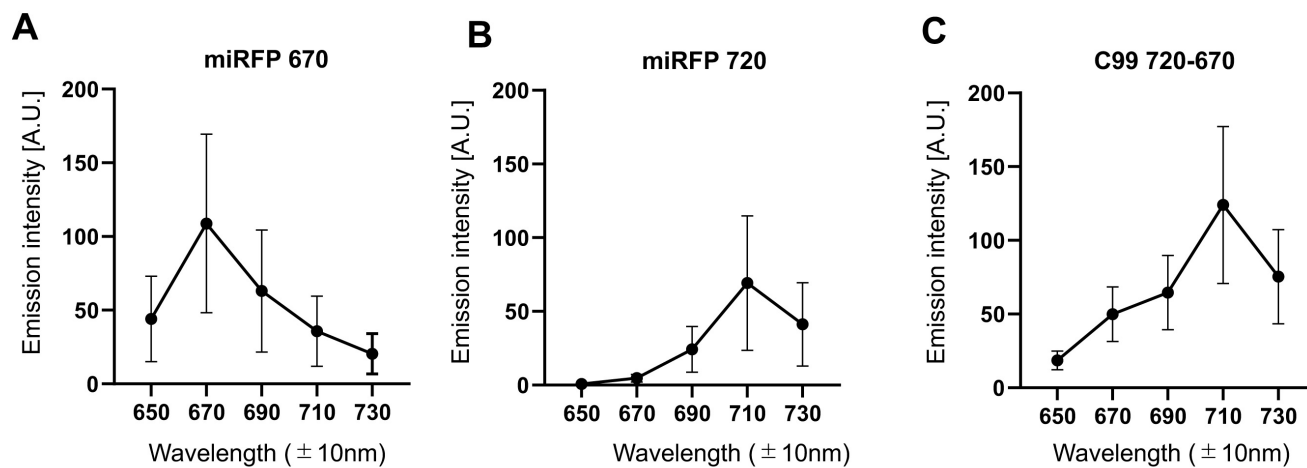


Figure S1. Emission fluorescence spectral properties: CHO cells expressing miRFP670 (A), miRFP720 (B), or the C99 720-670 biosensor (C) were excited by a 640nm laser. Fluorescence emission intensity within 650-730±10nm was measured (n = 30 cells). Mean ± SD

Supplemental Figure 2

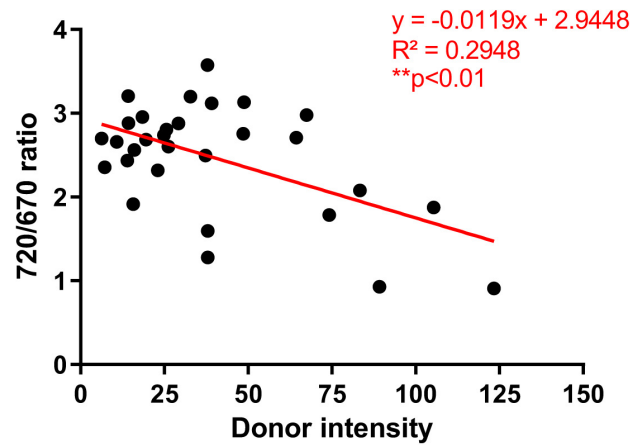


Figure S2. Correlation between the 720/670 ratio and C99 720-670 probe expression level: Correlation analysis between the 720/670 ratio (corresponding to Fig. 2A and 2B) and miRFP670 donor emission intensity (which reflects the biosensor expression level in the cell) shows a negative correlation. This indicates that higher 720/670 ratio does not come from higher biosensor expression. n = 30 cells, Pearson correlation coefficient, $y = -0.0119x + 2.9448$, $R^2 = 0.2948$, $p = 0.0019$