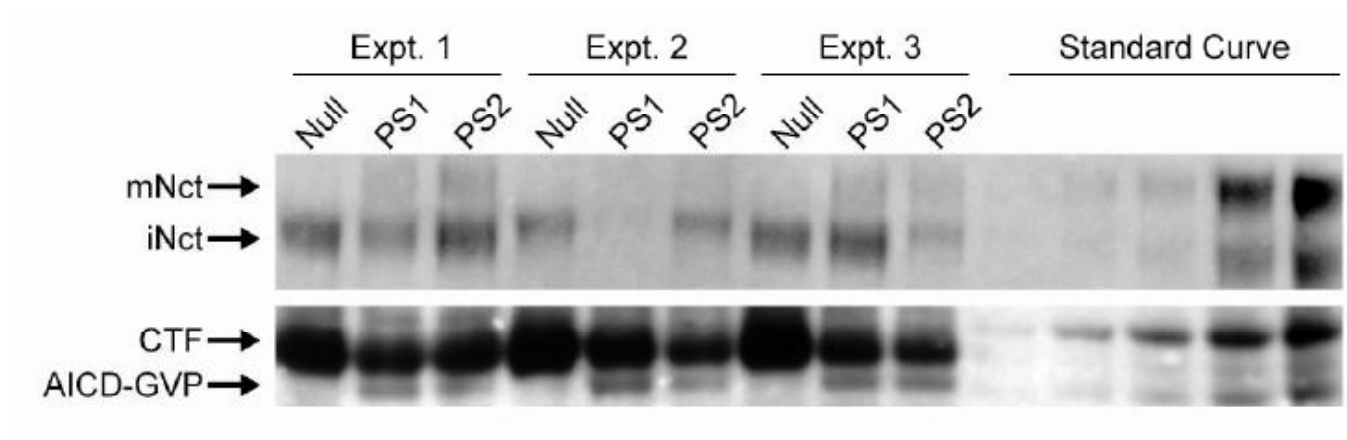


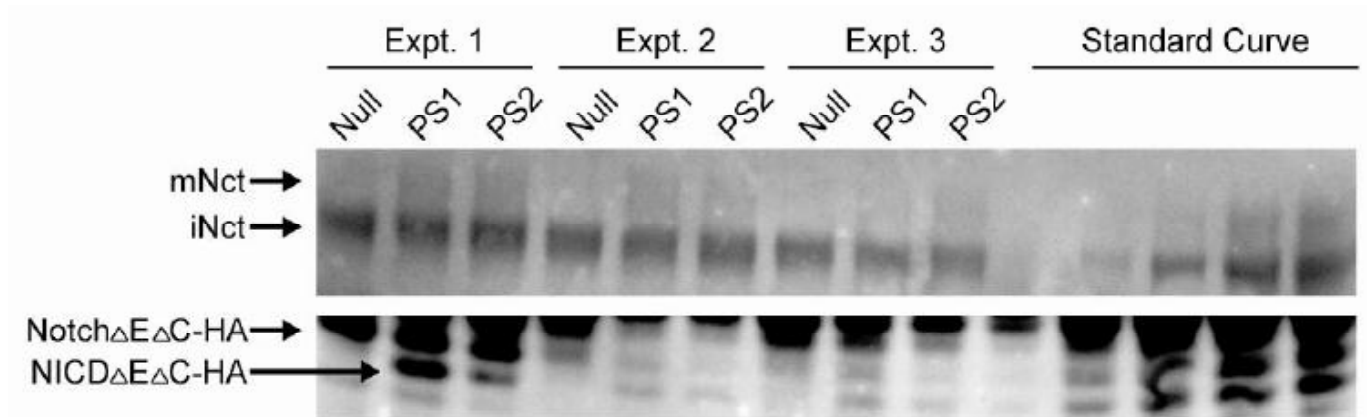
SUPPLEMENTARY MATERIAL



Supplementary Figure 1. Densitometric normalization data for AICD-GVP.

Top panel) Western blot detection of mature Nicastrin, which is only present in fully competent γ -secretase complexes [35], in PS1- or PS2-expressing PSdKO MEFs. A dilution curve of Nicastrin is included in the blot to facilitate semi-quantitative densitometry. mNct, mature Nicastrin ; iNct, immature Nicastrin.

Bottom panel) Western blot (using antibody against the APP C-terminus) demonstrates saturating levels of APP C-terminal fragment (CTF) substrate in each condition. A dilution curve containing CTF and AICD-GVP is included in the blot to facilitate semi-quantitative densitometry. All AICD-GVP values were normalized by total protein levels, transfection efficiency, and mNct levels to calculate relative activity of PS1 and PS2.



Supplementary Figure 2. Densitometric normalization data for Notch $\Delta E\Delta C$ -HA.

Top panel) Western blot detection of mature Nicastrin in PS1- or PS2-expressing PSdKO MEFs. A dilution curve of Nicastrin is included in the blot to facilitate semi-quantitative densitometry.

Bottom panel) Western blot (using anti-HA antibody) demonstrates saturating levels of Notch $\Delta E\Delta C$ -HA substrate in each condition. All NICD $\Delta E\Delta C$ -HA values were normalized as for AICD-GVP in Supplementary Figure 1 (bottom panel).