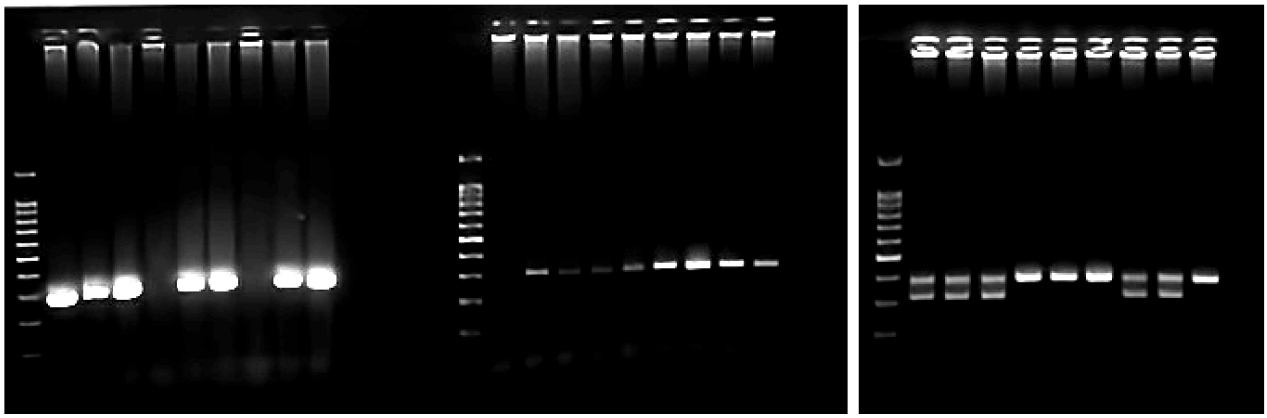
Sup Figure 1

a

APP/PS1-GPER$^{fl/fl}$

PS1 | Thy1-GFP | GPER



b

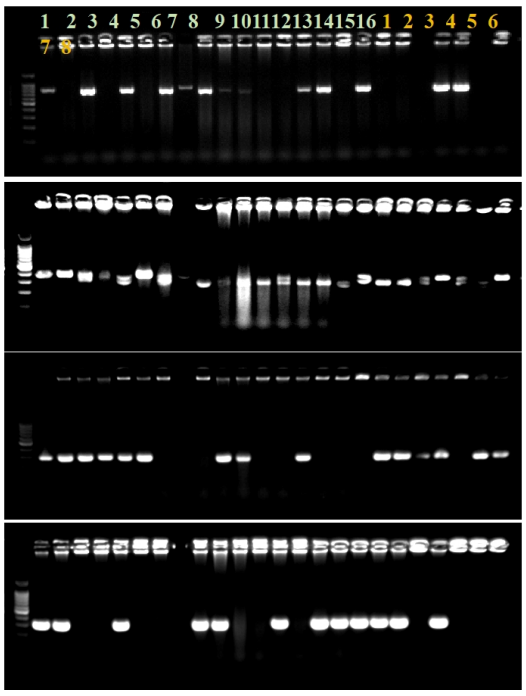
APP/PS1-GFAP^{cre}-GPER$^{fl/fl}$

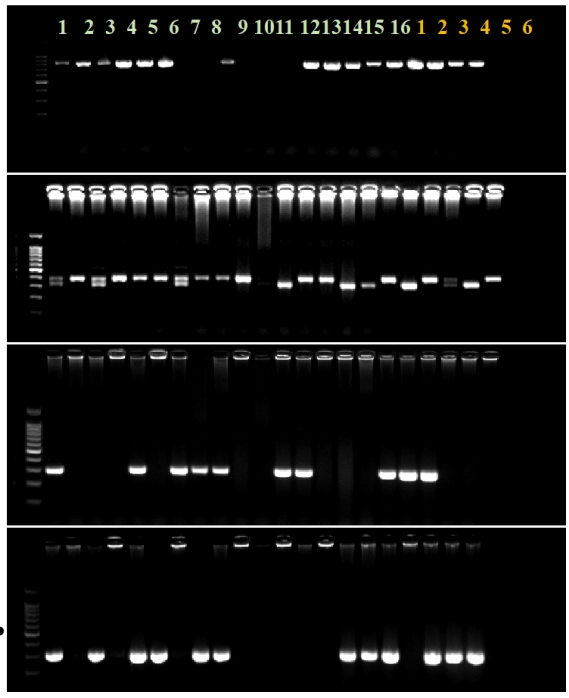
GFAP

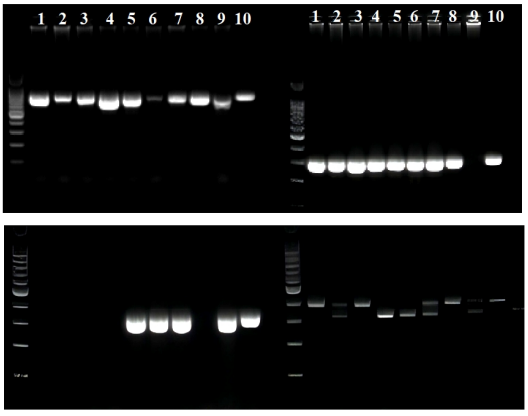
GPER

PS1

Thy1-GFP







GFAP | PS1

Thy1-GFP | GPER

Figure S1. Generation and validation of astrocyte-specific GPER knockout mice on an Alzheimer's disease background.

(a-b) Representative PCR genotyping results for APP/PS1;GFAP^{cre}-GPER$^{fl/fl}$ (b) and APP/PS1;GPER$^{fl/fl}$ (Control, a) mice. To eliminate potential spectral interference during subsequent immunofluorescence analyses, the Thy1-GFP allele, which was originally present in the APP/PS1 background, was successfully segregated out during the breeding strategy. The gel electrophoresis image displays specific bands corresponding to the PS1 transgene, the GFAP^{Cre} recombinase driver, and the Gper1 floxed alleles, confirming the uccessful generation of the desired genotypes without the confounding GFP reporter.

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