SUPPLEMENTARY INFORMATION

Somatostatin slows Aβ plaque deposition in aged APP\textsuperscript{NL-F/NL-F} mice by blocking Aβ aggregation

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Supplementary Figure 1. Indel sequence of Sst\textsuperscript{-/-} allele determined by Sanger sequencing.

In addition to depicting the indel, the image shows the position of forward and reverse primers used in this study for genotyping.

Supplementary Figure 2. Hippocampal Aβ amyloid plaque counts in 12- or 15-month-old App\textsuperscript{NL-F/NL-F} mice that express wild-type Sst levels or were Sst-deficient.

Hippocampal Aβ amyloid plaque densities increased between 12- and 15-month-old App\textsuperscript{NL-F/NL-F} mice. Differences in hippocampal Aβ amyloid plaque densities were observed when comparing App\textsuperscript{NL-F/NL-F} mice that expressed wild-type Sst versus Sst-deficient mice. More specifically, a trend toward higher Aβ plaque densities of small sizes (0.25-200 \(\mu\)m) was observed in 12-month-old Sst gene-deficient mice, echoing the increase in Aβ amyloid plaque densities observed in the cortex of Sst ablated App\textsuperscript{NL-F/NL-F} mice (Fig. 3F).

Supplementary Figure 3. Original images of Coomassie stains and western blots.
Supplementary Figure 1

Start of insertion

-3' to 5'

Jackson Labs mutant forward primer (oIMR 7988)

Alternate Sst mutant forward primer

Sst WT sequence 3' of indel

Supplementary Figure 1
**Supplementary Figure 2**

**Hippocampus data**

(A) 12 months

(B) 15 months

Number of Aβ amyloid plaques / mm² hippocampus

Ratio over App<sup>Nl-f/Nl-F</sup> <i>Sst</i><sup>+/−</sup>

Plaque size [µm²]

Sst genotype
**Supplementary Figure 3**

**Fig. 4A**

| Sst genotype | Female | Male |
|--------------|--------|------|
| -/-          | X      | X    |
| +/-          | X      | X    |
| -/-          | X      | X    |
| +/-          | X      | X    |
| -/-          | X      | X    |
| +/-          | X      | X    |

**Fig. 5A**

- Anti-neprilysin (AF1126) western blot
- Coomassie stain

**Fig. 5C**

- MW [kDa]
- Female
- Male
- Sst genotype

**Fig. 5D**

- Western blot panels shown above and below were obtained after cutting the PVDF membrane horizontally and therefore do not extend to the full range of MW markers.