

**Table S2. Spearman's correlation between the expression level of *IFITM3* and A $\beta$  load.**

| Gene   | A $\beta$ Load | rho   | p-value | Brain Region |
|--------|----------------|-------|---------|--------------|
| IFITM3 | A $\beta$      | 0.149 | 0.0497  | BA22         |
| IFITM3 | A $\beta$      | 0.170 | 0.0204  | BA36         |

Note: In the Brodmann Area 22 (BA-22 region) in the Mount Sinai Brain Bank (MSBB) cohort, the expression level of *IFITM3* is positively correlated with the A $\beta$  load (rho=0.149, p=0.0497, n=102). In the Brodmann Area 36 (BA-36 region), the expression level of *IFITM3* is positively correlated with A $\beta$  load (rho=0.170, p=0.0204, n=90).