Supplementary Table 1. Mean A\(\beta\) peptide ratios relative to A\(\beta\)1-40 (unless specified) from mass spec data

| A\(\beta\) Peptide | non-AD | APP V717I | PSEN1 int4del | PSEN1 Y115H | PSEN1 M139V | PSEN1 M146I | PSEN1 R278I |
|---------------------|--------|-----------|---------------|-------------|-------------|-------------|-------------|
| 1-13                | 0.04   | 0.04      | 0.06          | 0.04        | 0.05        |             |             |
| 1-14                | 0.07   | 0.07      | 0.07          | 0.04        | 0.05        | 0.08        |             |
| 1-15                | 0.20   | 0.20      | 0.66          | 0.64        | 0.15        | 0.30        | 0.18        |
| 1-16                | 0.15   | 0.14      | 0.57          | 0.59        | 0.08        | 0.27        | 0.21        |
| 1-17                | 0.34   | 0.30      | 1.17          | 0.99        | 0.22        | 0.45        | 0.30        |
| 1-19                | 0.27   | 0.38      | 0.94          | 0.45        | 0.30        | 0.33        | 0.27        |
| 1-20                | 0.10   | 0.14      | 0.45          | 0.49        | 0.10        | 0.18        | 0.11        |
| 1-30                | 0.04   | 0.04      | 0.04          |             |             |             |             |
| 1-33                | 0.09   | 0.13      | 0.25          |             |             |             | 0.08        |
| 1-34                | 0.34   | 0.41      | 1.05          | 0.62        | 0.54        | 0.38        | 0.22        |
| 1-37                | 0.18   | 0.19      | 0.20          | 0.22        | 0.14        | 0.14        | 0.18        |
| 1-38                | 0.33   | 0.51      | 0.34          | 0.40        | 0.26        | 0.35        | 0.30        |
| 1-39                | 0.12   | 0.18      | 0.12          | 0.20        | 0.15        | 0.12        | 0.12        |
| 1-40                | 1.00   | 1.00      | 1.00          | 1.00        | 1.00        | 1.00        | 1.00        |
| 1-42                | 0.09   | 0.15      | 0.14          | 0.18        | 0.14        | 0.16        | 0.09        |
| 11-34               | 0.06   | 0.06      | 0.24          |             |             |             | 0.05        |
| 11-37               | 0.06   | 0.10      |               |             |             |             | 0.06        |
| 11-38               | 0.04   | 0.06      | 0.03          |             |             |             | 0.02        |
| 11-39               | 0.04   | 0.06      | 0.04          |             |             |             | 0.03        |
| 11-40               | 0.15   | 0.15      | 0.15          |             |             |             | 0.17        |
| 11-42               | 0.04   | 0.07      | 0.06          |             |             |             | 0.03        |
| 2-40                | 0.06   | 0.09      | 0.06          |             |             |             | 0.10        |
| 4-15                | 0.09   | 0.09      | 0.29          |             |             |             | 0.05        |
| 4-17                | 0.09   | 0.09      | 0.44          | 0.89        | 0.07        | 0.20        | 0.07        |
| 4-34                | 0.06   | 0.07      | 0.07          |             |             |             | 0.09        |
| 4-37                | 0.03   | 0.05      |               |             |             |             |             |
| 4-38                | 0.05   | 0.07      |               |             |             |             | 0.05        |
| 4-40                | 0.08   | 0.11      | 0.07          |             |             |             | 0.11        |
| 5-17                | 0.08   | 0.08      | 0.05          |             |             |             | 0.06        |
| 5-38                | 0.05   | 0.06      |               |             |             |             | 0.04        |
| 5-40                | 0.12   | 0.12      | 0.10          |             |             |             | 0.10        |
| 5-42                | 0.03   | 0.03      |               |             |             |             | 0.03        |
| 11-42/11-40         | 0.25   | 0.45      | 0.37          |             |             |             | 0.29        |
| 1-42/1-38           | 0.27   | 0.30      | 0.61          | 0.57        | 0.54        | 0.45        | 0.32        |