



**Figure S3** Detection limit of GGA2 in brain lysates obtained from mixed background mice. 40  $\mu$ g of wt or *Gga2*<sup>-/-</sup> lysate (100%) were loaded alongside 50%, 25%, 10%, 5%, 2.5% and 1.25% of wt lysate, and subjected to SDS-PAGE and immunoblot analysis of GGA2.