



**Figure S9. Quality control of Visium SRT data.**

Violin distribution plots with spots colored by the quality control category: 20 spots had glare artifacts from imaging in the A $\beta$  channel (blue); 152 spots had low library size and were on the edge of the tissue (dark pink); 930 spots had either low library sizes, low gene expression features, or high mitochondria percent and were retained for further analyses (orange); 37,185 spots passed all QC checks (light gray). LQ stands for low quality. **(A)** Library size in log<sub>10</sub> scale. **(B)** Number of detected genes in log<sub>10</sub> scale. **(C)** Proportion of reads from the mitochondria (chrM).