

Description of Additional Supplementary Information

Supplementary Data 1: Marker genes of cell types.

Supplementary Data 2: Quantification of morphological and electrophysiological features for each cell type.

Supplementary Data 3: Quantification of morphological and electrophysiological features for bushy cells and bushy cell subtypes.

Supplementary Data 4: Quantification of morphological and electrophysiological features for T-stellate cell subtypes.

Supplementary Data 5: AUROC of MetaNeighbor analysis.

Supplementary Data 6: TFs and CAMs cell type specificity analysis.

Supplementary Data 7: Synergistic identity core of each cell type.

Supplementary Data 8: Citations support the functions or expression of TFs.

Supplementary Data 9: Sequences of the primers used in this study.