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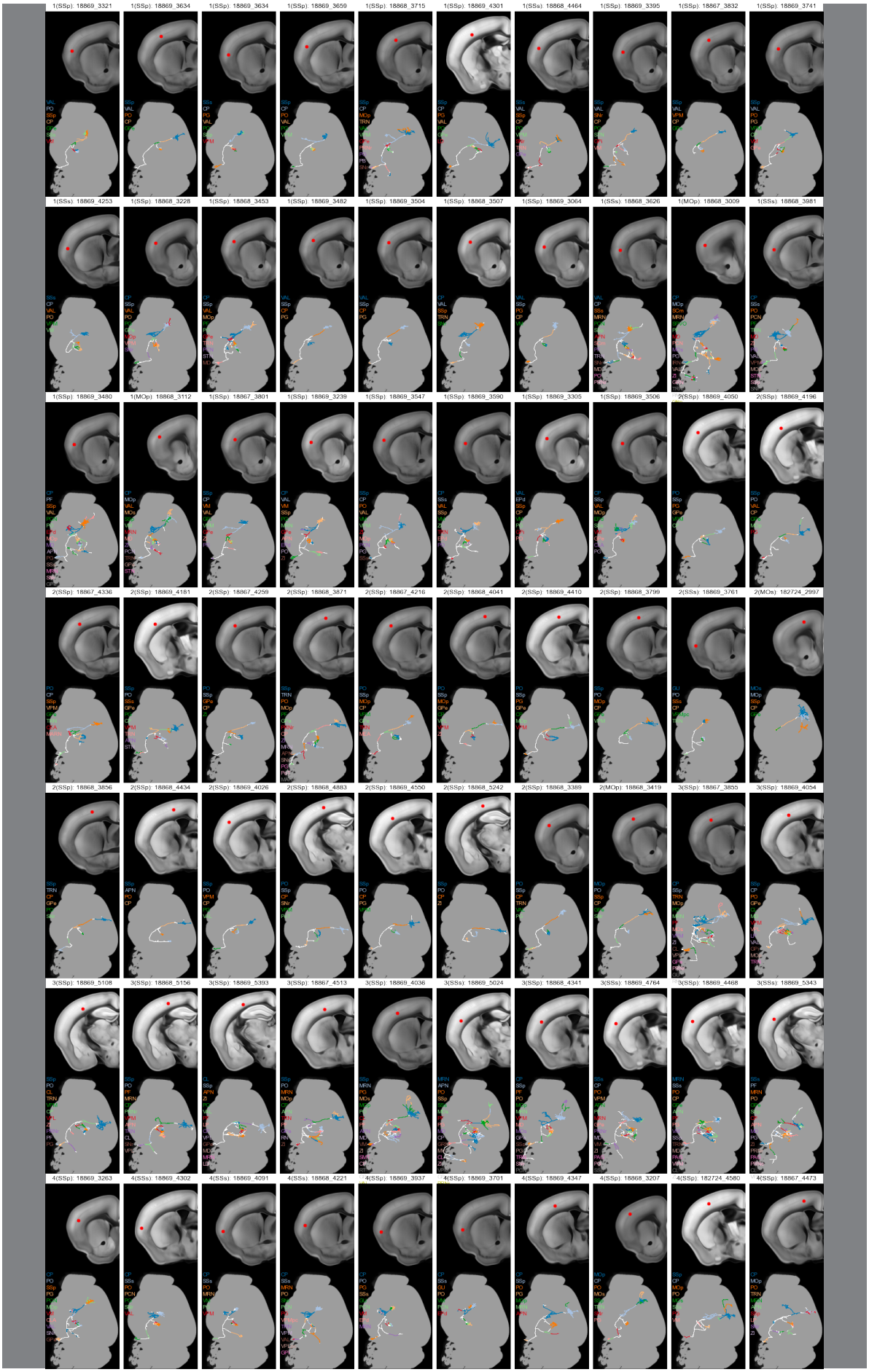
Supplementary information

Morphological diversity of single neurons in molecularly defined cell types

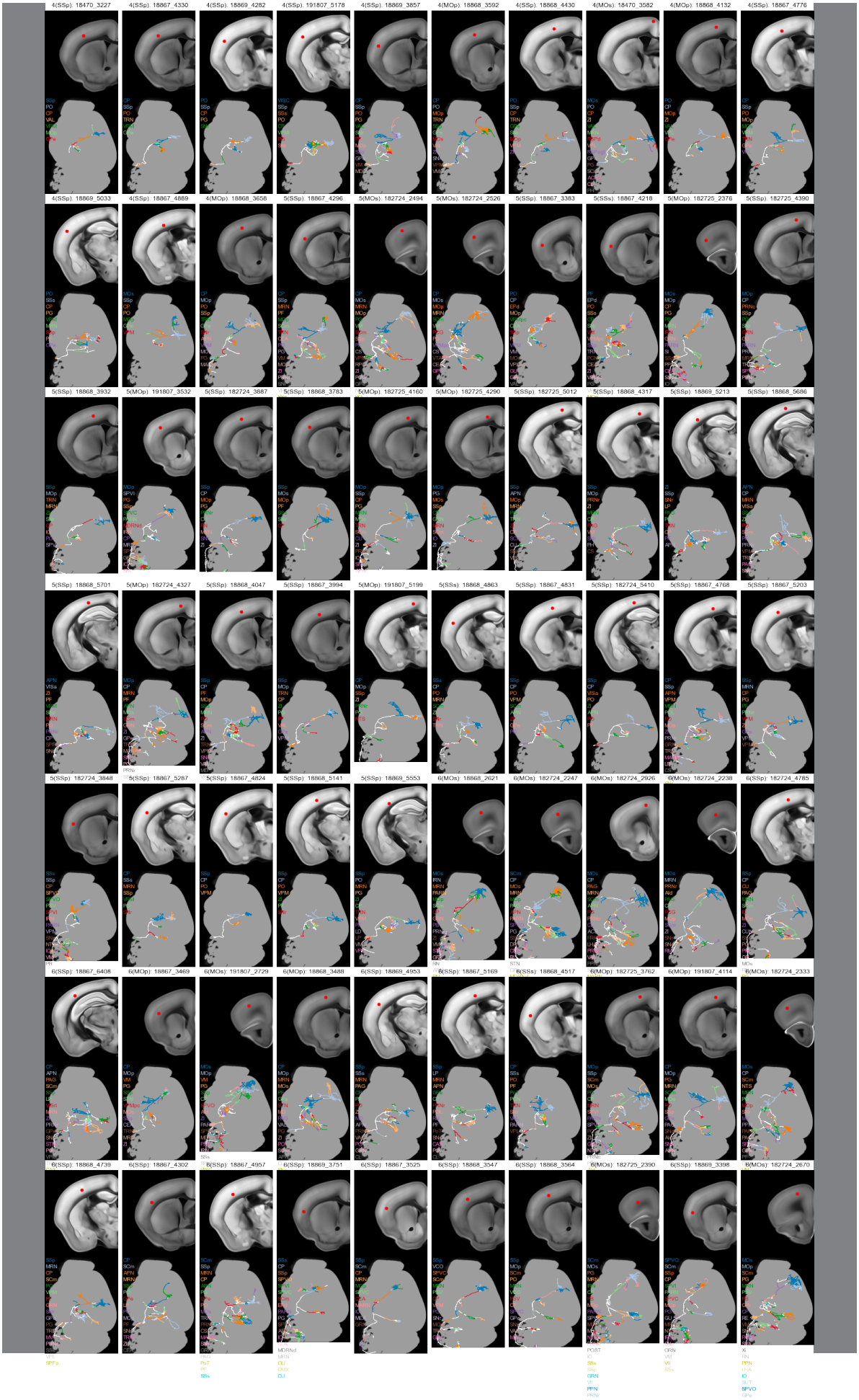
In the format provided by the authors and unedited

Supplementary Figure 1. Overview of reconstructed cortical L5 ET neurons, visualized within the CCFv3 3D reference space. The first number in the label of each neuron indicates the neuron's cluster assignment shown in Figure 3. Each neuron is shown in two views: top, a coronal plane showing the location of the soma (red dot); bottom, a sagittal maximum projection view showing the brain-wide axon projection pattern. Cortical target regions with axon length >1 mm are indicated by different colors while other axon branches are shown in white.

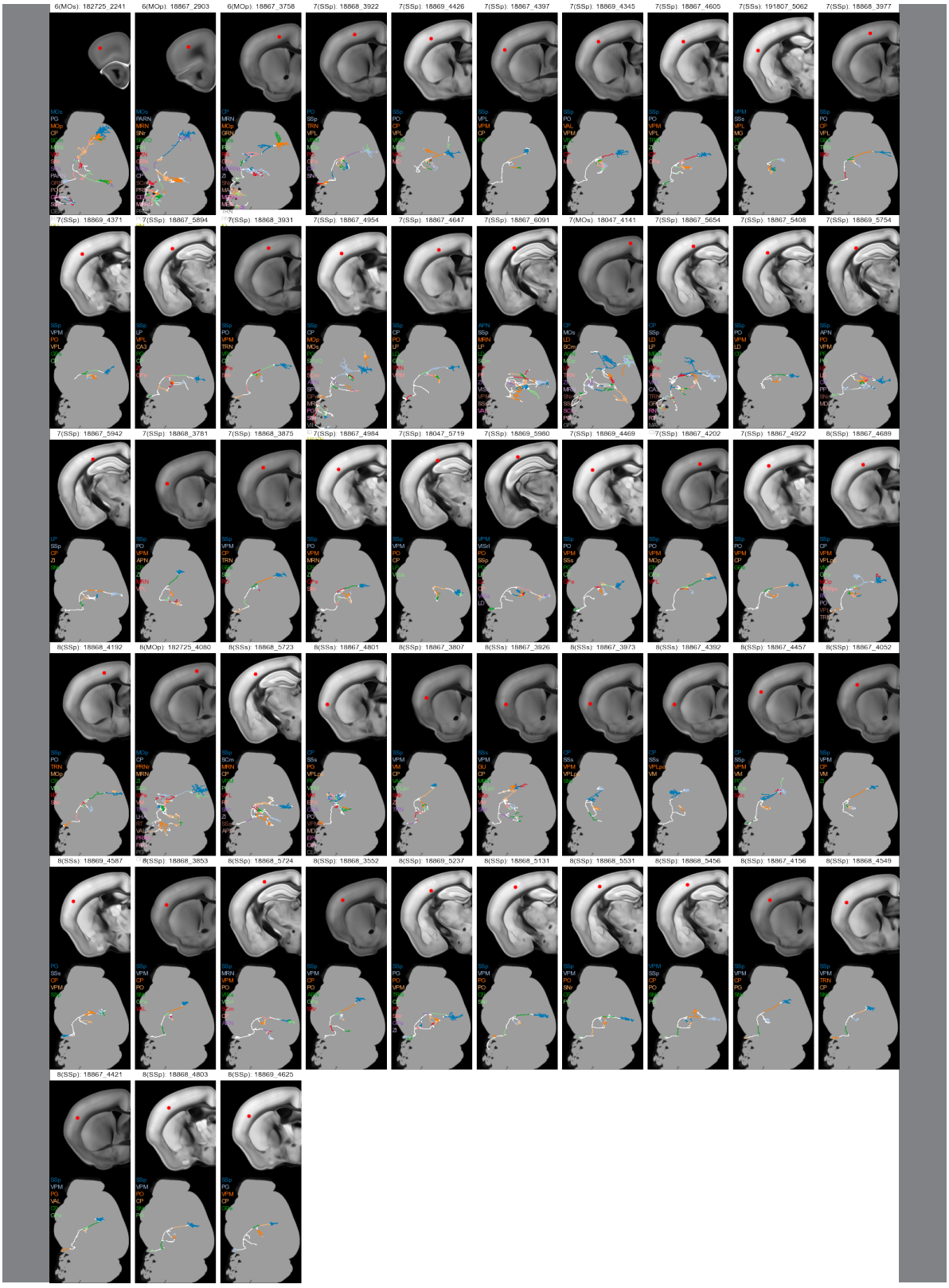
Supplementary Figure 1 L5 ET cells



Supplementary Figure 1 L5 ET cells



Supplementary Figure 1 L5 ET cells



Supplementary Figure 2. Tri-views of representative reconstructed neurons from core thalamic nuclei, visualized within the CCFv3 3D reference space. Each tri-view contains three views of the same neuron ordered from top to bottom: a whole-brain top-down view (soma indicated by a star, axon in red), a coronal plane showing the location of the soma (red dot), and a chosen coronal or horizontal plane close to the centre of the main axon arbor with superimposed maximum projection view of the axon arbors. Cortical target regions with axon length >1 mm are indicated by different colours while other axon branches are shown in white.

Supplementary Figure 2 representative TH core cells

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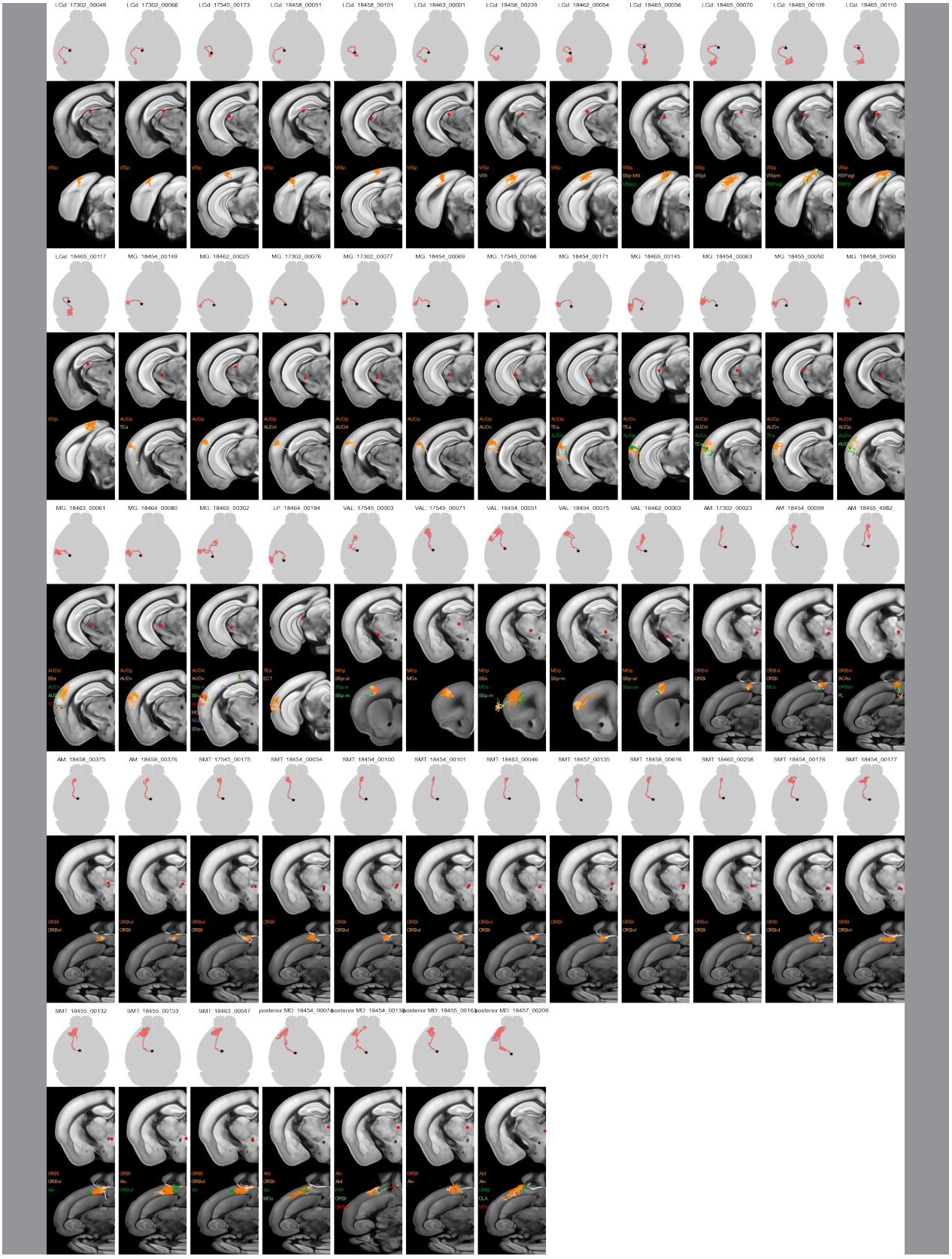

Supplementary Figure 3. Tri-views of all reconstructed neurons from matrix thalamic nuclei, visualized within the CCFv3 3D reference space. Each tri-view contains three views of the same neuron ordered from top to bottom: a whole-brain top-down view (soma indicated by a star, axon in red), a coronal plane showing the location of the soma (red dot), and a chosen coronal plane close to the centre of the main axon arbor with superimposed maximum projection view of the axon arbors. Cortical target regions with axon length >1 mm are indicated by different colours while other axon branches are shown in white.

Supplementary Figure 3 all TH matrix cells