**Supplementary Table 1. Details of eight summarized neuronal subtypes.**

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| Abbreviation | Scientific Name | Type | Location | References |
| L2P | L2 pyramidal neurons | Excitatory | Upper Layer 2/3 | [1,2,3,4] |
| L3P | L3 pyramidal neurons | Excitatory | Lower Layer 2/3 | [4,5,6] |
| Pyr | Star pyramidal and pyramidal neurons | Excitatory | Layer 4 | [7,8,9,10,11] |
| SSP | Spiny stellate pyramidal neurons | Excitatory | Layer 4 | [6,7,8,12] |
| STP | Slender-tufted pyramidal neurons | Excitatory | Layer 5a | [13,5,14] |
| TTP | Thick-tufted pyramidal neurons | Excitatory | Layer 5b | [15,16,17,18,19] |
| CTP | Cortico-thalamic pyramidal neurons | Excitatory | Layer 6a | [20, 21, 22,23] |
| CCP | Cortico-cortical pyramidal neurons | Excitatory | Layer 6a | [21, 23, 24,25] |

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