|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Layers 2/3** | **Layer 5** |
|  | **% correct** | **V1** | **AM** | **PM** | **MMA** | **MMP** | **RSC** | **V1** | **AM** | **PM** | **MMA** | **MMP** | **RSC** |
| **gp31** | 73.0 | 1 | 1 | 1 | 1 | 0 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| **gp36** | 75.3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| **gp37** | 70.1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| **gp40** | 67.7 | 0 | 2 | 0 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 5 |
| **gp42** | 67.1 | 0 | 1 | 0 | 2 | 3 | 4 | 0 | 1 | 0 | 1 | 2 | 1 |
| **gp46** | 67.8 | 0 | 0 | 1 | 3 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 2 |
| **ai50** | 68.7 | 0 | 2 | 1 | 3 | 0 | 7 | 0 | 1 | 0 | 2 | 0 | 2 |
| **ai53** | 67.8 | 2 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| **ai55** | 71.6 | 0 | 3 | 0 | 2 | 0 | 1 | 0 | 3 | 0 | 1 | 0 | 0 |
| **ai56** | 71.9 | 4 | 7 | 6 | 1 | 3 | 0 | 3 | 4 | 4 | 1 | 3 | 0 |
| **ai57** | 67.2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

[**Supplementary File 2.**](https://docs.google.com/document/d/12frnsGqVL-UhMKL1jXzYlvriQBX_6Um6FCJjONLu834/edit#sptab_sessionPerform) Overall performance and number of imaging sessions for the main experiment, per mouse (rows), in various areas and layers (columns). Mice of the Thy1 GP5.3 strain have names starting with “gp”, and those from the Ai93-Emx1 strain have names starting with “ai” (see Methods).