**Extended Data Figure 1-3:**

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| **Gene name** | **Assay ID** | **Functional relevance** |
| ARC ᵒ | Mm01204954\_g1 | Activity-Regulated Cytoskeleton-Associated Protein: plasticity protein |
| DDX3Y ᵒ | Mm00465349\_m1 | DEAD-Box Helicase 3 Y-Linked: male-specific brain protein 7 |
| DRD2 ᵒ | Mm00438545\_m1 | Dopamine receptor D2 |
| DRD3 ᵒ | Mm00432887\_m1 | Dopamine receptor D3 |
| HSPA1A (HSP70) ᵒ | Mm01159846\_s1 | Heat Shock Protein Family A (Hsp70) Member 1A: Stabilizes proteins and mediates folding of newly translated proteins |
| OPRL1 ᵒ | Mm00440563\_m1 | Opioid Related Nociceptin Receptor 1 |
| PPP1R9B (SPINOPHILIN) ᵒ | Mm00552071\_m1 | Protein Phosphatase 1 Regulatory Subunit 9B: scaffold protein for dendritic spines |
| PVALB ᵒ | Mm00443100\_m1 | Parvalbumin: GABAergic interneuron marker |
| RELA (NFKB) ᵒ | Mm00501346\_m1 | RELA Proto-Oncogene, NF-KB Subunit: signal transduction for inflammation |
| SLC17A6 (VGLUT2) ᵒ | Mm00499876\_m1 | Solute Carrier Family 17 Member 6 (Vesicular glutamate transporter 2): presynaptic glutamate uptake |