**Table S2.** List of up-regulated genes affected by *Disc1*-L100P mutation in the hippocampus

|  |  |  |  |
| --- | --- | --- | --- |
| **Gene symbol** | **Gene name** **NCBI ID** | **Function** | **p-Value** |
| Pglyrp1 | Peptidoglycan recognition protein 1**21946** | Immune system; Apoptosis  | 9.94E-03 |
| Gga1 | Golgi associated, gamma adaptin ear containing, ARF binding protein 1**106039** | Vesicle-mediated transport, Intracellular protein transport  | 5.26E-02 |
| Upf1 | UPF1 regulator of nonsense transcripts homolog (yeast)**19704**  | mRNA catabolic process  | 7.46E-02 |
| Pacsin1 | Protein kinase C and casein kinase substrate in neurons 1**23969** | Cytoskeleton, Endocytosis | 5.03E-02 |
| Purb | Purine rich element binding protein B**19291** | Transcriptional factor, Apoptosis, Proliferation  | 3.03E-02 |
| Stard13 | StAR-related lipid transfer (START) domain containing 13**243362** | Cytoskeleton, Cell cycle, Proliferation, Signal transduction | 5.25E-02 |
| A930018M24Rik | RIKEN cDNA A930018M24 gene**328399** | Unknown | 5.26E-02 |
| Ppfia3 | protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 3**76787** | Unknown  | 6.02E-02 |
| Lcn2 | Lipocalin 2**16819** | Immune system, Proliferation, Apoptosis  | 7.24E-02 |
| Rnase4 | Ribonuclease, RNase A family 4**16819** | Catalyzes the degradation of RNA | 7.72E-02 |
| Celf4 | CUGBP, Elav-like family member 4**108013** | mRNA binding and splicing | 8.99E-02 |
| Slc35c2 | Solute carrier family 35, member C2**228875** | Transport | 8.99E-02 |
| Caskin1 | CASK interacting protein 1**268932** | Signal transduction | 9.07E-02 |
| Lrrc8a | Leucine rich repeat containing 8A**241296** | Unknown | 9.11E-02 |
| Xrcc1\*  | X-ray repair complementing defective repair in Chinese hamster cells 1**22594** | DNA repair  | 9.11E-02 |
| Agxt2l1\* | *Alanine-glyoxylate aminotransferase 2-like 1***71760** | Unknown |  9.75E-02 |
| Adar | Adenosine deaminase, RNA-specific**56417** | Transcriptional factor, Apoptosis, Proliferation, cell migration  | 9.75E-02 |
| Eif4ebp2 | Eukaryotic translation initiation factor 4E binding protein 2**13688** | Translation; Synaptic plasticity and memory  | 9.9E-02 |

Expression of genes corrected by valproate are highlighted; \*genes associated with schizophrenia