**Table S5.** List of genes affected by valproic acid in a Disc1-independent manner

|  |  |  |  |
| --- | --- | --- | --- |
| **Gene Symbol** | **Gene name****NCBI ID** | **Functions** | **P-values**  |
| Hippocampus |
| Hist1h1c | Histone cluster 1, H1c**50708** | Nucleosome Assembly, Epigenetic | 4.36E-04 |
| Hist1h2be | Histone cluster 1, H2be**319179** | Nucleosome Assembly, Epigenetic | 1.13E-03 |
| Clcn2 | Chloride channel 2**12724** | Neuronal conductance/excitability | 8.3E-02 |
| Striatum |
| Egr2 | Early growth response 2 **13654** | Transcriptional Factor, Myelination, Motor axon guidance, Brain segmentation; Apoptosis, Immune system, Cognition  | 5.54E-02 |
| Fosb | FBJ osteosarcoma oncogene B**14282** | Transcriptional factor, Cell proliferation, differentiation | 5.54E-02 |