**Supplementary Table S2. Gene names and the generic functions of 24 genes exclusively altered in frontal cortex gray matter of HDLS**

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| --- | --- | --- | --- | --- |
| **Gene name** | **Accession number** | **Fold Change** | **P-value** | **Generic functional class** |
| *SPSB1* | NM\_025106.3 | 2.97 | 0.015 | Receptor |
| *CCL2* | NM\_002982.3 | 2.94 | 0.047 | Receptor ligand |
| *HVCN1* | NM\_001040107.1 | 2.93 | 0.034 | Voltage gated ion channel |
| *CARHSP1* | NM\_001042476.1 | 2.78 | 0.029 | Binding protein |
| *PDGFA* | NM\_002607.5 | 2.22 | 0.046 | Receptor ligand |
| *DNAJB4* | NM\_007034.3 | 2.05 | 0.038 | Binding protein |
| *NFIA* | NM\_005595.1 | 1.97 | 0.026 | Transcription factor |
| *TGM1* | NM\_000359.2 | 1.92 | 0.049 | Generic enzyme |
| *CADM1* | NM\_014333.3 | 1.79 | 0.010 | Binding protein |
| *JARID2* | NM\_004973.2 | 1.78 | 0.037 | Transcription factor |
| *TMEM47* | NM\_031442.3 | 1.75 | 0.011 | Generic protein |
| *PDE3B* | NM\_000922.3 | 1.75 | 0.011 | Generic enzyme |
| *CTTNBP2NL* | NM\_018704.2 | 1.72 | 0.029 | Generic protein |
| *PTPRZ1* | NM\_002851.2 | 1.72 | 0.048 | Generic protein |
| *AHCYL1* | NM\_006621.4 | 1.72 | 0.021 | Generic enzyme |
| *PLA2G15* | NM\_012320.3 | 1.70 | 0.028 | Phospholipase |
| *SLC1A3* | NM\_004172.4 | 1.62 | 0.032 | Transporter |
| *JMY* | NM\_152405.2 | 1.58 | 0.031 | Binding protein |
| *MECP2* | NM\_001110792.1 | 1.57 | 0.036 | Binding protein |
| *ARHGAP5* | NM\_000476.2 | 1.53 | 0.016 | Regulators |
| *AK1* | NM\_000476.2 | 1.52 | 0.046 | Kinase |
| *GOLM1* | NM\_016548.3 | 1.52 | 0.037 | Generic protein |
| *UNC13A* | NM\_001080421.2 | -1.58 | 0.042 | Generic protein |
| *NEFL* | NM\_006158.3 | -1.77 | 0.033 | Binding protein |