

Volcano plot showing the relationship between $\log_2(\text{FC})$ (X-axis) and $-\log_{10}(\text{p-value})$ (Y-axis). The plot is divided into four quadrants by a vertical dashed line at $\log_2(\text{FC}) = 0$ and a horizontal dashed line at $-\log_{10}(\text{p-value}) = 1.3$. Genes are colored blue (upregulated), red (downregulated), and grey (not significant). Labeled genes include Nrg1, Lrrc4c, Syt1, Mdga2, Dpp10, Nrg3, Dlg2, Lrp1b, Kcnd2, Opcml, Tenm2, Ctnnap2, Il1rapl1, Dlgap1, Nalf1, Anks1b, Ctnna2, Adgrb3, Nkain2, Lrrtm4, Eri3, H3f3b, Klf7, Cfdp1, Daam1, Bdp1, Ubr1, and others.