## File Name: Supplementary Data 1

Description: Clinical findings in individuals with EZH1 mutations. NR=Not Reported. NICU=Neonatal Intensive Care Unit. IVH=Intraventricular Hemorrhage. OCD=Obsessive Compulsive Disorder. CT=Computerized tomography. VLP=Variant of Low Pathogenic score. EEG=Electroencephalogram

## File Name: Supplementary Data 2

Description: Differentially expressed genes in EZH1-/- vs EZH1+/+ 2-month-old hPSC derived neurons.

## File Name: Supplementary Data 3

Description: Differentially expressed genes in EZH1+/G vs EZH1+/+ 2-month-old hPSC derived neurons.