

## Description of Supplementary Files

**File Name:** Supplementary Data 1.

**Description:** Patient information.

**File Name:** Supplementary Data 2.

**Description:** Comb-p results for DMR calls in EPIC microarrays.

**File Name:** Supplementary Data 3.

**Description:** Pathway analysis of EPIC array probes.

**File Name:** Supplementary Data 4.

**Description:** Summary statistics for RNA sequencing.

**File Name:** Supplementary Data 5.

**Description:** Differential expression results for case-control RNAseq data.

**File Name:** Supplementary Data 6.

**Description:** Pathway analysis for transcriptomic data from GSEA.

**File Name:** Supplementary Data 7.

**Description:** Results of cis meQTL analysis of DMRs from the EPIC arrays.

**File Name:** Supplementary Data 8.

**Description:** Results of eQTL analysis of EPIC DMRs with SCZ GWAS hits and credible SNPs.

**File Name:** Supplementary Data 9.

**Description:** Genotype-disease interaction of cis-SNPs in linkage equilibrium in IGF2 DMR region.

**File Name:** Supplementary Data 10.

**Description:** Summary statistics for processing pipeline of targeted bisulfite sequencing (SeqCapEPI).

**File Name:** Supplementary Data 11.

**Description:** RNA-seq of wild-type and *Igf2enh*<sup>-/-</sup> mice.

**File Name:** Supplementary Data 12.

**Description:** Differential expression in *Igf2enh*<sup>-/-</sup> mice in frontal cortex.

**File Name:** Supplementary Data 13.

**Description:** Differential expression in *Igf2enh*<sup>-/-</sup> mice in striatum.

**File Name:** Supplementary Data 14.

**Description:** Pathway enrichment results for *Igf2enh*<sup>-/-</sup> mice for frontal cortex.

**File Name:** Supplementary Data 15.

**Description:** Pathway enrichment results for *Igf2enh*<sup>-/-</sup> mice for striatum.

**File Name:** Supplementary Data 16.

**Description:** Enriched synaptosomal proteins in striatum of wild type mice, relative to *Igf2enh*<sup>-/-</sup> mice. Ratio values above 1 are higher in the wildtype; those under 1 are higher in *Igf2enh*<sup>-/-</sup> mice.

**File Name:** Supplementary Data 17.

**Description:** Mouse synaptosome wt vs *Igf2enh*<sup>-/-</sup> pathway analysis results from Metacore (Disease pathways).

**File Name:** Supplementary Data 18.

**Description:** Mouse synaptosome wt vs Igf2enh<sup>-/-</sup> pathway analysis results from Metacore (Biological processes).

**File Name:** Supplementary Data 19.

**Description:** Mouse synaptosome enrichment analysis (Biological processes).

