

**SUPPLEMENTARY FIG. S3.** (**A**) Functional annotation of genes with promoters hypermethylated in EpiSCs using Ingenuity Pathway Analysis (*P*-value < 0.01 and number of genes > 5). Terms associated with molecular transport are represented as *purple bars*, metabolism functions as *blue* and developmental functions as *pink bars*. (**B–D**) IGV browser view of three genes repressed in EpiSC compared to ESCs and showing extensive methylation at their promoters in EpiSCs: *Tbx3* (**B**), *Zfp42* (**C**), and *Dnmt3l* (**D**). The *green boxes* highlight promoter regions. For *Dnmt3l*, it corresponds to the zygotic specific promoter [16].