

Description of Additional Supplementary Files

Supplementary Data 1: scNOMeRe-seq Primer Sequences.

Supplementary Data 2: Sample and Sequencing Information. Sheet 1. scNOMeRe-seq sample information; Sheet 2-4. RNA-seq, NOMe-seq and BS-seq data sequencing information; Sheet 5-6. NOMe-seq and BS-seq covered WCG/GCH sites information.

Supplementary Data 3: ZGA Genes. List of 2-cell embryos significantly upregulated genes, compared to zygotes. The Wald test was used for significance testing in DESeq2. The P values were adjusted for multiple testing using the procedure of Benjamini-Hochberg.

Supplementary Data 4: ZGA associated CREs. Sheet 1-2. ZGA genes associated promoter and distal CREs. The significance of the coefficients was calculated with two-tailed Student's t-tests. The P values were further adjusted by the BenjaminiHochberg approach.

Supplementary Data 5: DEGs between ICM and TE. The Wald test was used for significance testing in DESeq2. The P values were adjusted for multiple testing using the procedure of BenjaminiHochberg.

Supplementary Data 6: ICM and TE associated CREs. Sheet 1-2. ICM/TE-DEGs associated promoter and distal CREs. The significance of the coefficients was calculated with two-tailed Student's t-tests. The P values were further adjusted by the BenjaminiHochberg approach.