

**Supplemental Figure S5: Comparison of POU5F1 DamID-seq signal in different studies.** POU5F1 binding signal detected by ChIP-seq (Buecker et al. 2014) (top), by DamID-seq in this study with 10<sup>6</sup> cells (middle) and in Jacinto et al. 2015 (bottom) at the 3 different loci. The protocol described in this study improves the signal-to-noise ratio of the DamID-seq signal providing higher agreement with ChIP-seq.