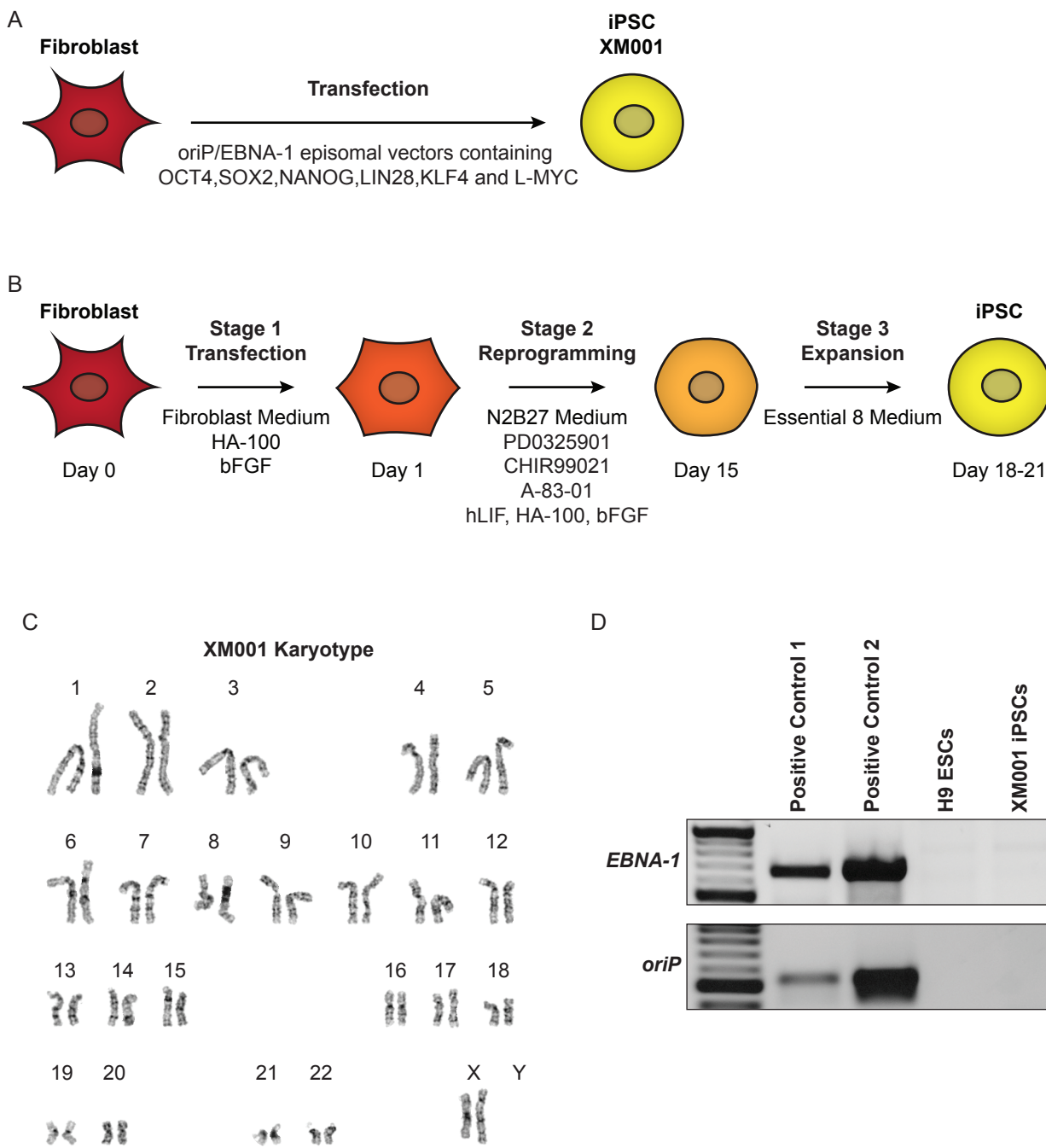
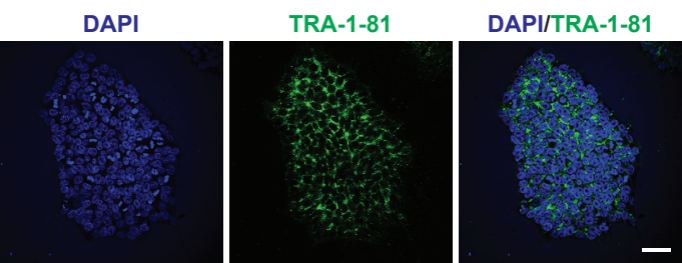
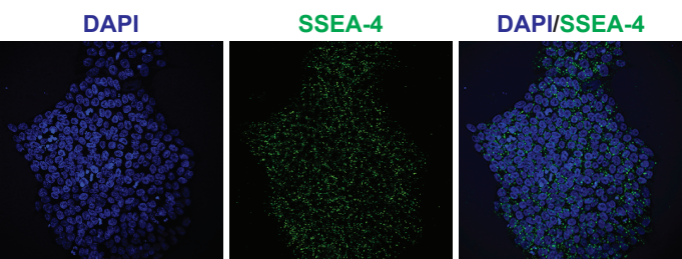
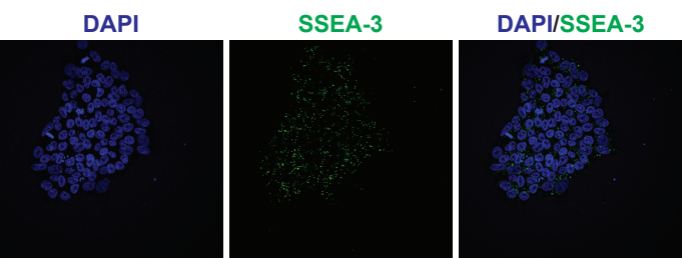
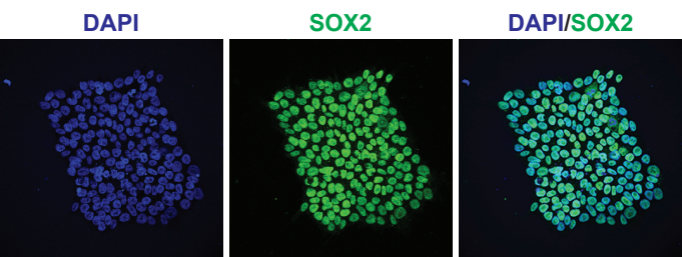
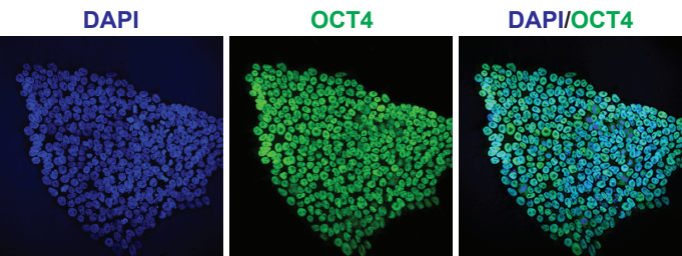


Supplement Figure 1: Reprogramming of skin fibroblasts into XM001 iPSCs.



Supplement Figure 2: XM001 iPSCs are pluripotent *in vitro*.

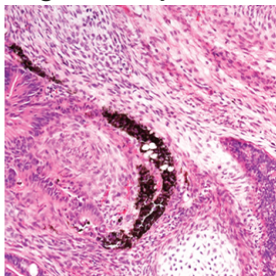
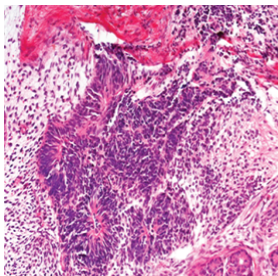


Supplement Figure 3. XM001 iPSCs are pluripotent *in vivo*.

Neural rosettes

Pigmented epithelium

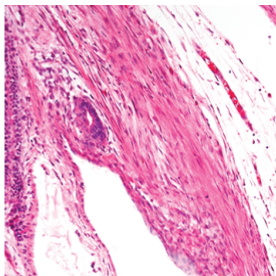
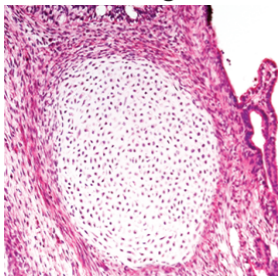
Ectoderm



Cartilage

Smooth muscle

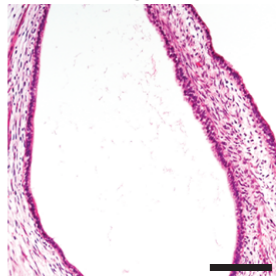
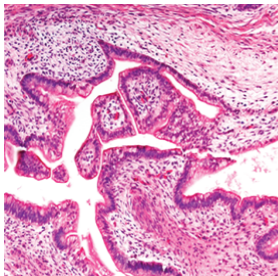
Mesoderm



Gut epithelium

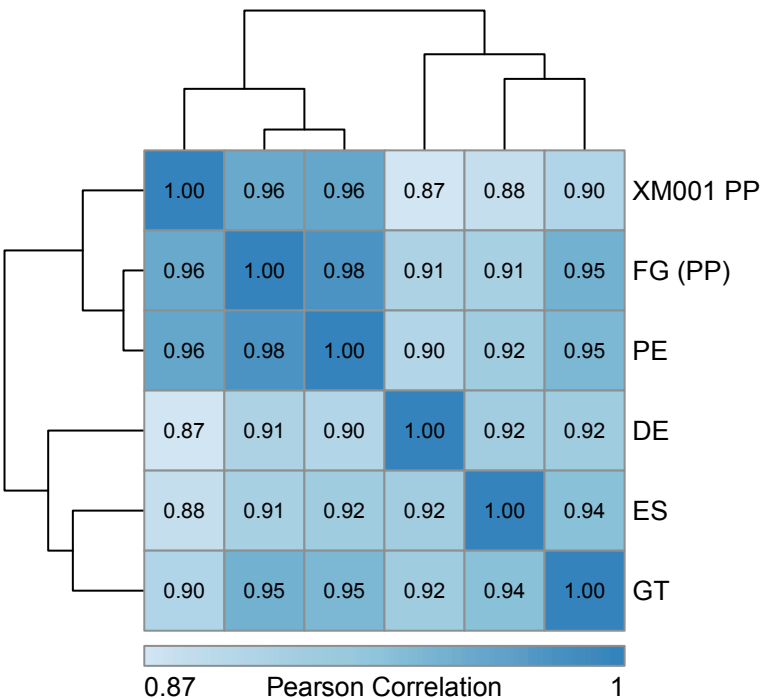
Respiratory epithelium

Endoderm

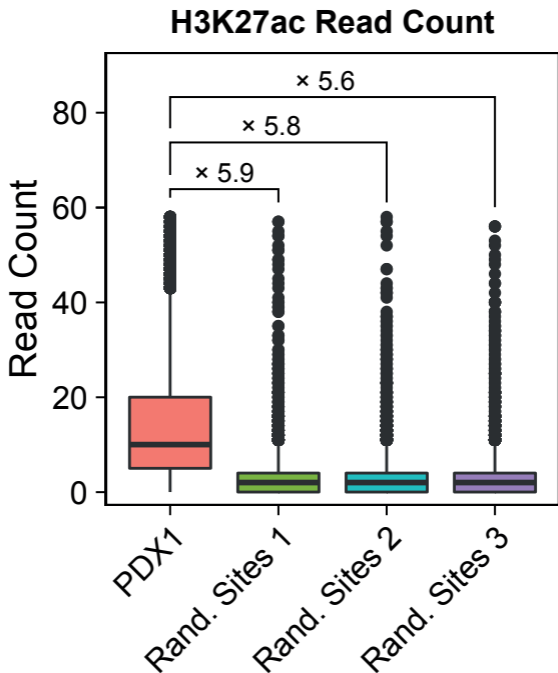


Supplement Figure 4: Hierarchical clustering of H3K27ac at different stages.

In vitro Derived Progenitors



Supplement Figure 5: H3K27ac is enriched at PDX1 binding sites.

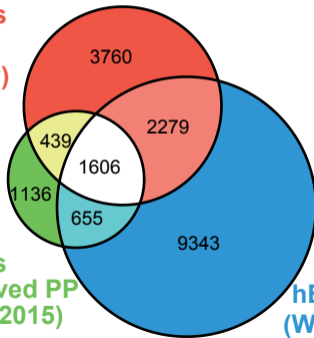


Supplement Figure 6: Comparison of PDX1 binding in XM001 PPs with previous datasets.

**PDX1 Sites
XM001 PP
(this study)**

**PDX1 Sites
hESC derived PP
(Teo et al. 2015)**

**PDX1 Sites
hESC derived PE
(Wang et al. 2015)**



Supplement Figure 7: Differential binding of PDX1 in XM001 PPs and adult islets.

