

Additional File 4. Differences in expression between inner cell mass (ICM) and trophoctoderm (TE) for genes considered as being characteristically expressed by ICM, embryonic stem cells and TE in human or mouse. ^a

Genes Considered Characteristic of ICM or embryonic stem cells

<i>ABL2</i>	<i>ACOT9</i>	<i>AMD1</i>	<i>ARHGER18</i>	<i>BXL2L14</i>	<i>CANX</i>	<i>CCNB1</i>	<i>CDCA2</i>	<i>CENPF</i>	<i>CLDN7</i>	<i>CYP2S1</i>	DAB2	<i>DDX3X</i>
<i>DNMT3L</i>	DSP	<i>EI24</i>	<i>EIF1AX</i>	<i>EIF2S1</i>	<i>EIF5B</i>	<i>EPRS</i>	<i>FGFR2</i>	<i>FGFR3</i>	<i>FLG</i>	<i>FOXD3</i>	<i>FOXH1</i>	<i>GATA2</i>
GATA3	<i>GATAD1</i>	<i>GJC1</i>	<i>GLTSCR2</i>	GM2A	<i>GPD1L</i>	<i>H19</i>	<i>HMGB1</i>	<i>HN1</i>	<i>HSD17B11</i>	<i>IFITM2</i>	<i>IGF2R</i>	<i>IL17RA</i>
IL6R^b	<i>ITGA5</i>	<i>ITGA6</i>	<i>JAK2</i>	<i>JUNB</i>	KDM2B	<i>KLF2</i>	<i>KTN1</i>	<i>LAMC1</i>	<i>LAMP2</i>	<i>LEFTY1</i>	<i>LRPAP1</i>	<i>MAP3K3</i>
<i>MORC1</i>	<i>MRPL15</i>	<i>MTCH2</i>	<i>MUC15</i>	<i>MYC</i>	NANOG	<i>NANOS1</i>	<i>NODAL</i>	OTX2	<i>PAX8</i>	<i>PDPN</i>	<i>PEG3</i>	<i>PEX3</i>
<i>PLK1</i>	<i>POU2F1</i>	<i>POU5F1</i>	<i>PPARD</i>	<i>PTP4A1</i>	<i>PTTG1IP</i>	<i>PUM1</i>	<i>PUM2</i>	<i>PYGB</i>	<i>RAB12</i>	<i>PYGB</i>	<i>RAB12</i>	<i>RAB5C</i>
<i>RAB6A</i>	<i>RELL1</i>	<i>RHPN2</i>	<i>RPL14</i>	<i>RPL19</i>	<i>RPL32</i>	<i>RPL7A</i>	<i>RUNX1</i>	<i>SALL4</i>	<i>SBNO1</i>	SCD	<i>SIN3B</i>	<i>SLIT3</i>
<i>SMAD2</i>	<i>SMAD4</i>	<i>SMAD5</i>	<i>SNX3</i>	SOX2	<i>SPATA13</i>	<i>SPETA5L1</i>	SPIC	<i>SRRM1</i>	SSFA2	<i>STAG2</i>	STAT3	<i>TACC1</i>
<i>TAL1</i>	<i>TAXBP1</i>	TFRC^c	<i>TGFBR1</i>	<i>TGFBR3</i>	<i>TMED2</i>	<i>TOP2A</i>	<i>TPRKB</i>	<i>TRNAU1AP</i>	VAV3	<i>XIST</i>	<i>ZBTB34</i>	ZC3HAV1
<i>ZFP42</i>	<i>ZNF296</i>											

Genes Considered Characteristic of TE

AQP11	<i>ARNT2</i>	<i>ASCL2</i>	ATP1B3	<i>BMP4</i>	<i>CDH19</i>	<i>CDH22</i>	CDH24	<i>CDX1</i>	<i>CDX2</i>	<i>CELSR2</i>	<i>CGB</i>	<i>CGB1</i>
<i>CGB2</i>	CGN^d	<i>CLDN10</i>	<i>CLDN2</i>	<i>CSNK1A1</i>	CYP11A	<i>DAAM1</i>	DSC2	ELF5	<i>EOMES</i>	<i>ESRRB</i>	<i>FGFR2</i>	<i>GCM1</i>
<i>HAND1</i>	<i>HLA-G</i>	HSD3B1	IFNT1	<i>ID2</i>	<i>IRX3</i>	<i>JAM2</i>	<i>KRT1</i>	KRT18	<i>LEP</i>	<i>LHCGR</i>	MSX2	<i>OCLN</i>
PAG2	<i>PCDH1</i>	<i>PCDHB7</i>	<i>PSG3</i>	SFN	<i>TBX1</i>	<i>TEAD2</i>	<i>TEAD4</i>	TKDP1	TJP2			

^a Genes in blue were upregulated in ICM and genes in red were upregulated in TE. The adjusted P value was <0.05 unless indicated by superscripts

^b adjusted P=0.05

^c adjusted P=0.06.

^d adjusted P=0.09.