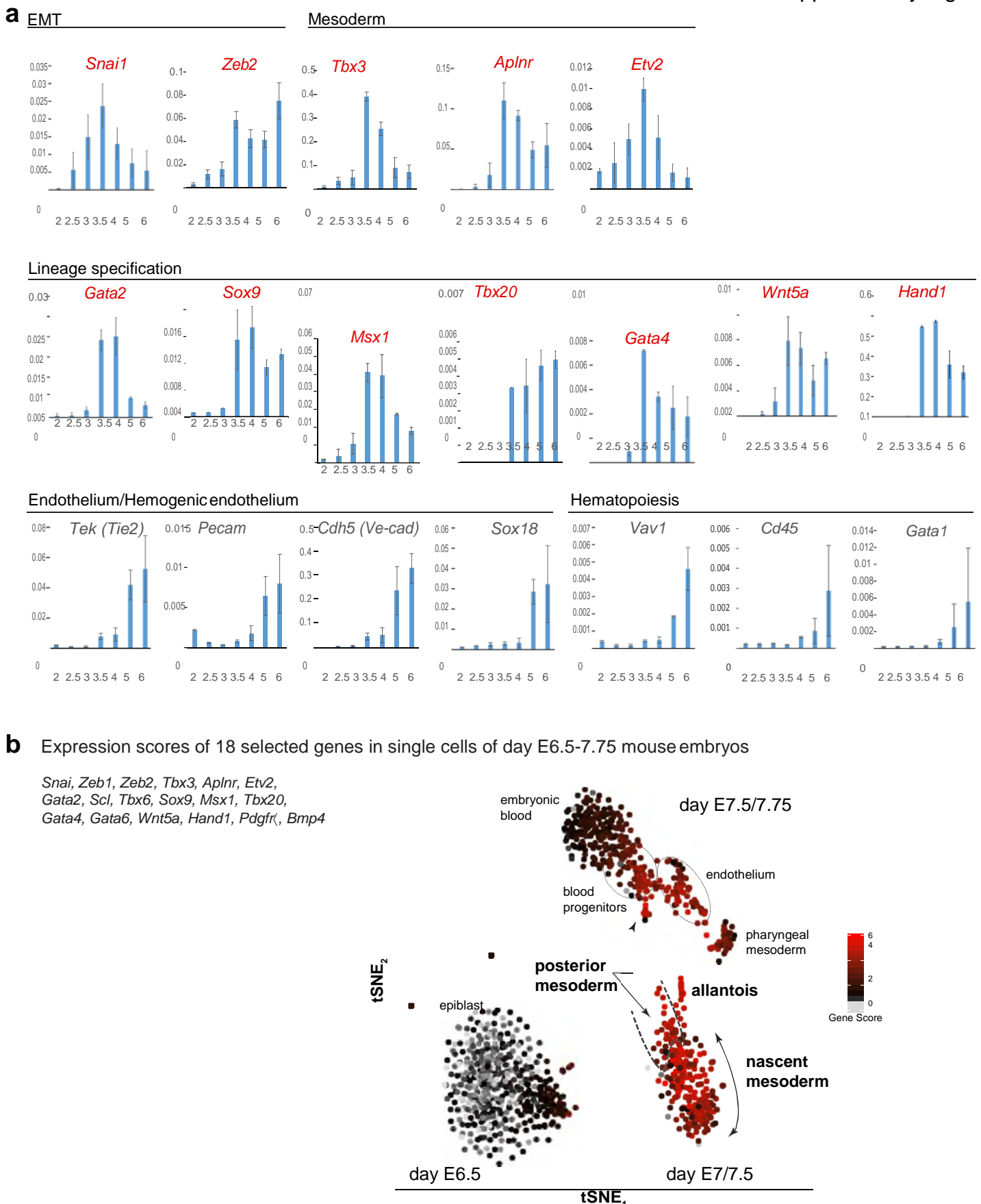


Supplementary information

**SCL/TAL1 cooperates with Polycomb RYBP-PRC1 to suppress alternative lineages in blood-fated cells**

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**Supplementary Figure 1. Day 3.5 EBs correspond to day E7/7.5 mouse embryos, related to Figure 1.**

**(a)** Gene expression analyses by RT-qPCR throughout a time-course of EB differentiation (day 2 to day 6).

To further define the embryonic developmental stage corresponding to day 3.5 EBs, we tested expression of more markers of key developmental time points and cell types. Expression of genes that mark epithelial to mesenchymal transition (EMT, *Snai1*, *Zeb2*) and mesoderm (*Tbx3*, *Aplnr*, *Etv2*) starts at days 2.5/3 and peaks at day 3.5. Confirming the data on *Scl*, *Mesp1* and *Tbx6* (Fig. 1a), expression of markers of lineage-fated progenitors arising from mesoderm becomes robust at day 3.5 (hematovascular *Gata2*; chondrogenic *Sox9*; muscle *Msx1*; and cardiac *Tbx20*, *Gata4*, *Wnt5a*, *Hand1*). In contrast, endothelial markers, also associated to the hemogenic endothelium, are lowly expressed at days 3.5/4 and increase considerably at days 5/6 (*Tek (Tie2)*, *Pecam*, *Cdh5 (Ve-cadherin)*, *Sox18*). Finally, the markers of more mature hematopoietic cells (*Vav1*, *Gata1*, *Cd45*) increase above background at day 5 and are expressed at higher levels at day 6. Therefore, day 3.5 sees strong expression of genes associated with cell fate specification in the primitive streak (EMT, mesoderm patterning and lineage specification). In red, markers that are maximally expressed at days 3.5/4 and have been used in (b).