Suppl. Figure 4
Gene: Prl3b1 (Csh2/Pl2)

A

Prl3b1

Placental lactogen 2 (Prl3b1) is expressed by P-TGCs after Prl3d expression begins to decline around E9.5 (Carney et al., 1993), and has traditionally been used as a marker of TGC formation along with Prl3d (Pl1) and Prl2c (Plf). However, Prl3b1 is also expressed in spongiotrophoblast (SpT) beginning around E9.5-10.5. In addition, some expression of Prl3b1 can be detected in the ectoplacental cone (EPC) as early as E8.5. While Prl3b1 expression cannot be detected in TGCs which invade the spiral arteries (SpA-TGCs), expression can be seen in TGCs lining the maternal canals (C-TGCs). Prl3b1 is one of the few prolactin family members which is expressed in TGCs of the labyrinth layer; that is the TGCs lining the maternal sinusoids, previously referred to as mononuclear trophoblast but now called sinusoidal trophoblast giant cells (S-TGCs).