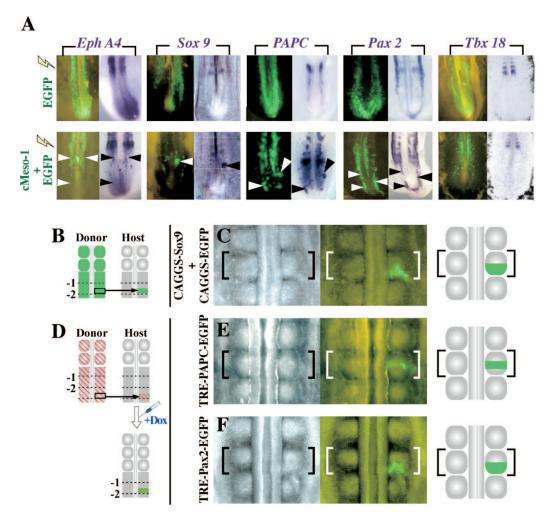
## **Supporting Information**

Watanabe et al. 10.1073/pnas.0902859106



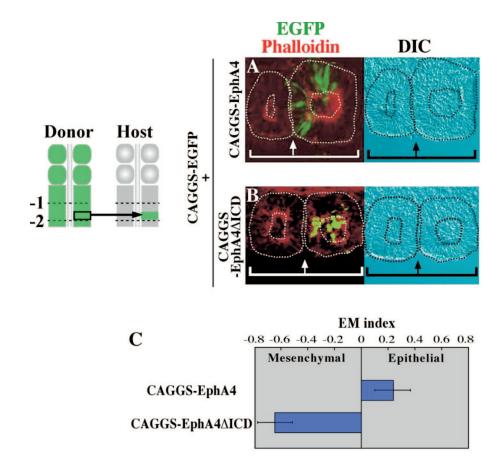


Fig. S2. Eph-forward signals appear to be important for the MET of posterior border cells, although these signals are dispensable for the gap induction. (*A, B*) Embryos were whole-mount stained with phalloidin, and confocal images of horizontal view over a 10-μm thickness were obtained (dark field). The embryo was subsequently subjected to paraffin-sectioning to obtain the same view for Nomarski microscopy. The anterior to the left and the midline to the bottom (neural tube discarded). An arrow indicates a gap ectopically formed. (*A*) Most of EphA4-electroporated cells exhibited an epithelial character in a formed somite. (*B*) EphA4\_ICD-electroproated cells, although capable of inducing a gap, failed to epithelialize correctly. (*C*) EM-index for the somitic cells electroporated with EphA4 (*n* = 13 somites) or EphA4-ICD (*n* = 9 somites). See also Fig. 30.

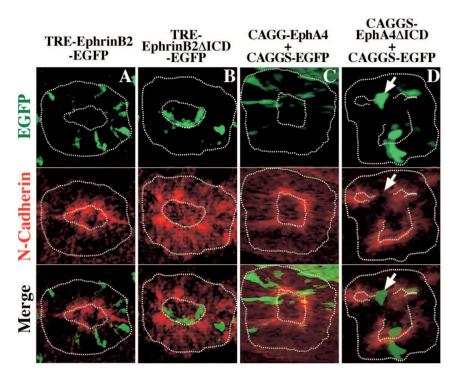


Fig. S3. Bidirectional activation of EphrinB2-reverse and EphA4-forward signals is important for the MET to occur during somitogenesis. Somites electroporated with the constructs shown on the top were stained for N-cadherin, an apical marker for somitic epithelium. Sagittal views with the dorsal to the top and the anterior to the left.