

File Name: Supplementary Movie 1

Description: Wildtype E13.5 mouse embryo, caudal region, stained for Sox2 (red), T/Brachyury (T;Bra; green) and Foxa2 (blue) proteins. 3-Disco clearing, Ultramicroscope II imaging.

File Name: Supplementary Movie 2

Description: *Gdf11*^{-/-};*Hoxd12*^{OE}_1 embryo, caudal region, stained for Sox2 (red), T/Brachyury (T;Bra; green) and Foxa2 (blue) proteins. 3-Disco clearing, Ultramicroscope II imaging.

File Name: Supplementary Movie 3

Description: *Gdf11*^{-/-};*Hoxd12*^{OE}_2 embryo, caudal region, stained for Sox2 (red), T/Brachyury (T;Bra; green) and Foxa2 (blue) proteins. 3-Disco clearing, Ultramicroscope II imaging.