

Supplementary information

PAX6 does not regulate *Nfia* and *Nfib* expression during neocortical development

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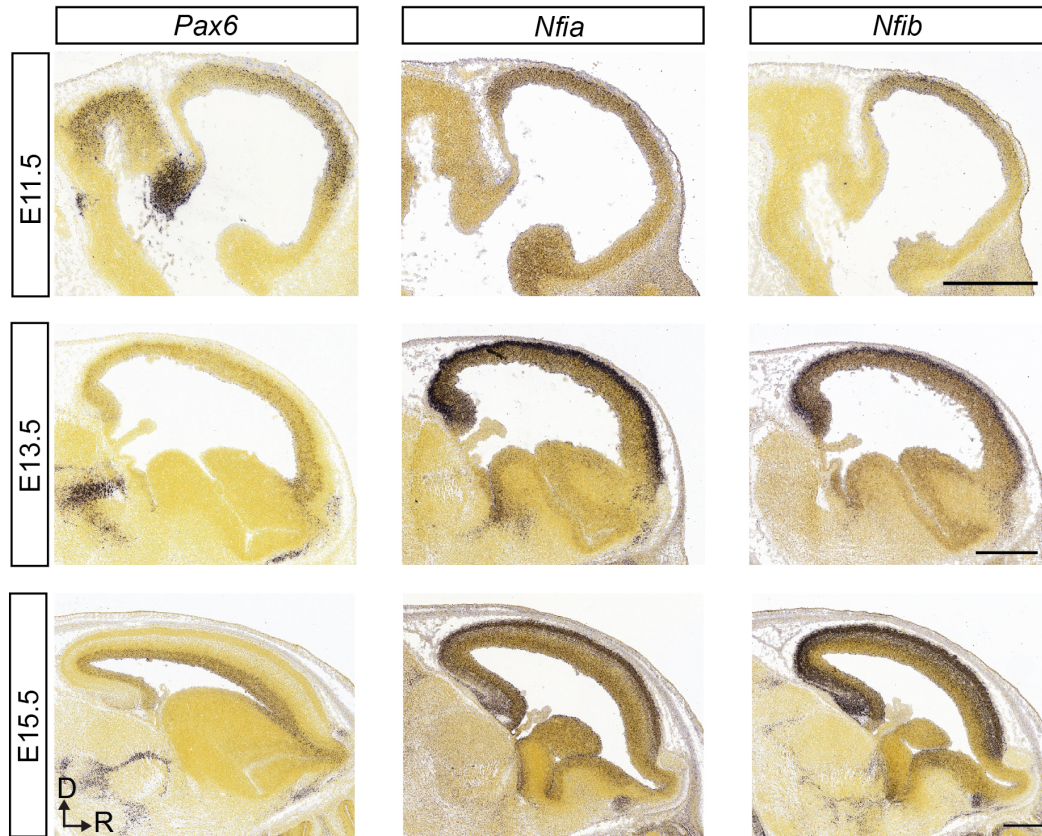
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Supplementary Figure S1
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Supplementary Figure S1. *Nfia* and *Nfib* mRNA are expressed in a high caudal to low rostral gradient during early neocortical development. *In situ* hybridization analyses using probes for *Pax6*, *Nfia* and *Nfib* were obtained from the Allen Brain Atlas²³. Analyses were performed using sagittal sections of E11.5, E13.5 and E15.5 C57Bl/6J wildtype brains. mRNA expression of all analyzed genes were detected from E11.5. While *Pax6* was expressed in a high rostral to low caudal gradient in the ventricular zone of the neocortex at all ages, *Nfia* and *Nfib* were expressed in opposing high caudal to low rostral gradients at E11.5 and E13.5, with highest expression observed in the developing cortical plate. At E15.5, the expression of *Nfia* and *Nfib* remains the highest in the cortical plate, but expression across the rostral-to-caudal axis is now more evenly distributed. Scale bar represents 500 μm . D = dorsal; R = rostral. Image credit: Allen Institute for Brain Science.