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Supplemental Material to:

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α6 integrin subunit regulates cerebellar development

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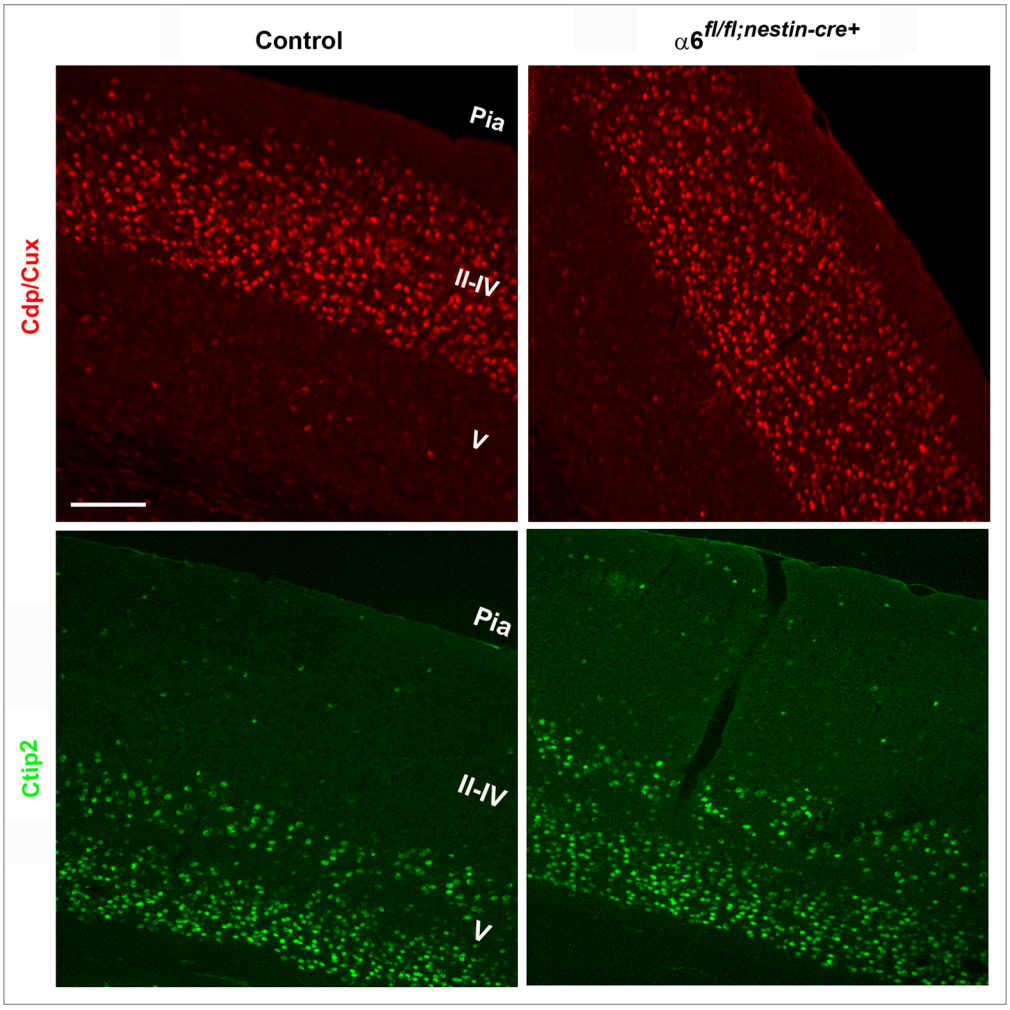

Figure S1. Normal cortical lamination in $\alpha^{6fl/fl;nestin\text{-}Cre}$ mice. Immunostaining for cortical layer-specific markers Cdp/Cux (red) and Ctip2 (green) on P21 coronal sections of control and mutant cerebral cortex. Neurons in layers II-IV expressed Cdp/Cux, while neurons in layer V expressed Ctip2. No differences in cortical laminar organization were observed comparing the control and mutant brains. Scale bar, 100 μm.

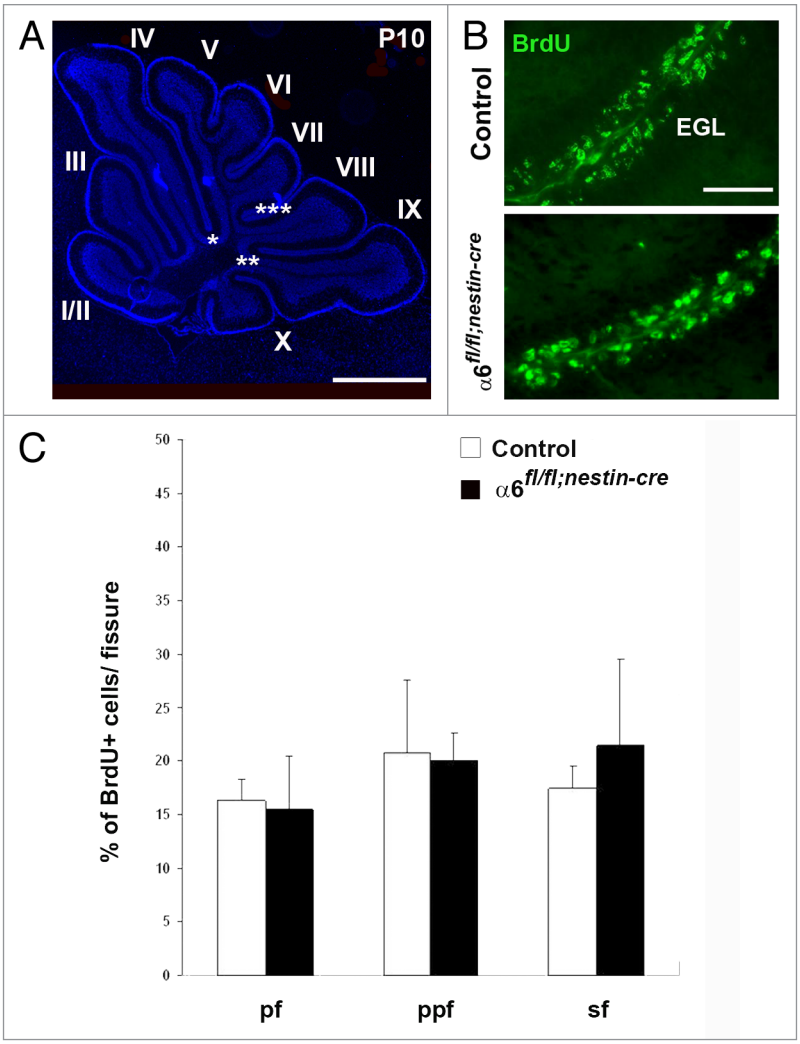

Figure S2. Granule cell precursor proliferation is not affected in the $\alpha 6^{fl/fl;nestin\text{-}Cre}$ mice. (**A**) Sagittal sections of P10 mouse cerebellum stained with DAPI. The asterisks indicate the primary fissure (pf, *), the secondary fissure (sf, **), and prepyramidal fissure (ppf, ***). Scale bar, 200 µm. (**B**) Mice were injected with BrdU and sacrificed 2 h later. Representative sagittal sections of P10 control and mutant cerebellum stained with BrdU antibody. Scale bar, 40 µm. (**C**) Quantitative analysis of BrdU incorporation at P10. The quantification of the BrdU incorporation was performed within the fastest growing folia, respectively pf (control: 16.3 ± 3.4%; mutant: 15.5 ± 6.9%), sf (control: 17.5 ± 3.5%; mutant: 21.4 ± 11.5%), and ppf (control: 20.7 ± 11.8%; mutant: 20 ± 3.6%) fissures, where the proliferation rate is presumably the highest. Three sections were counted per animal (3 controls and 3 mutants). Histogram depicting the percentage of BrdU-positive cells to total DAPI-positive cells in the fissure indicated in (**A**). No statistically significant difference was detected in the number of BrdU-positive cells between control and mutant animals in all three fissures. Error bars indicate the SD. EGL, external granular layer.