Supplementary information, Figure S13

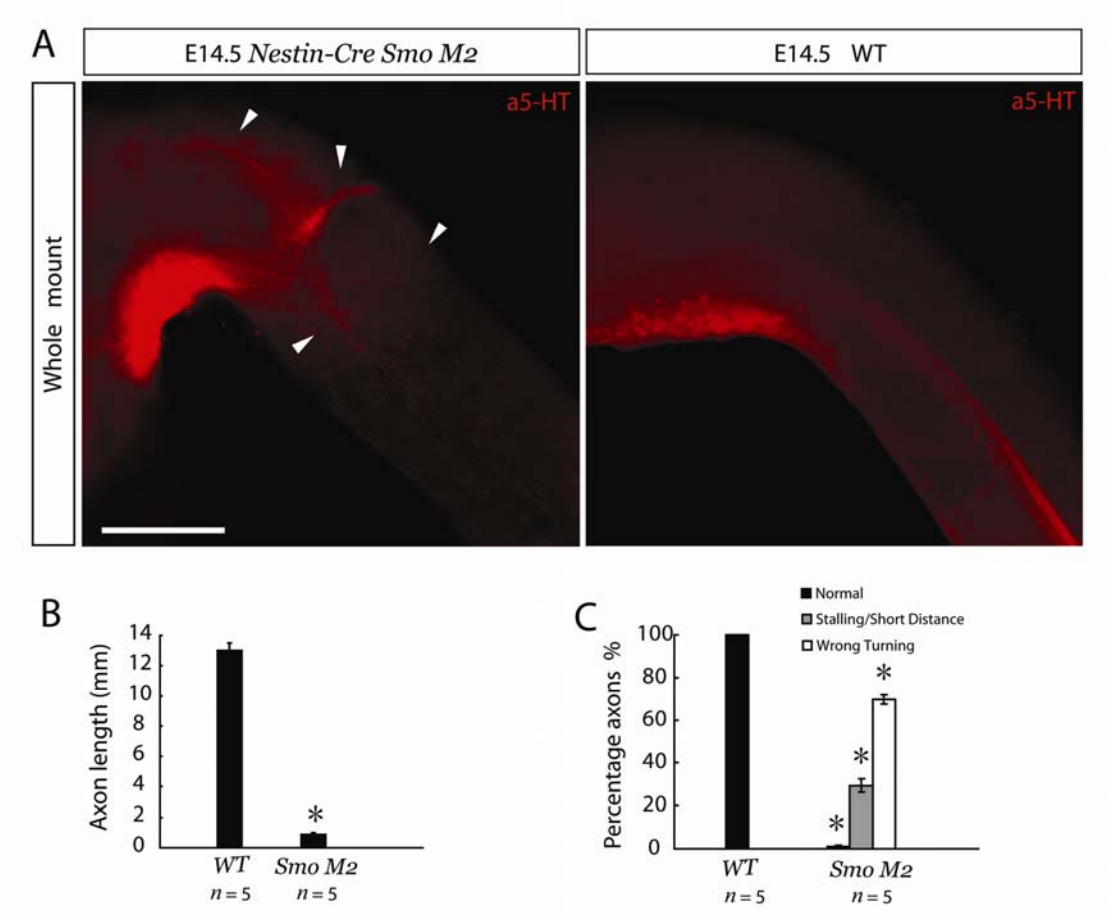

Figure S13 Abnormal RST axon pathfinding detected in *Nestin-Cre; SmoM2* mice. **(A)** In E14.5 *Nestin-Cre; SmoM2* mice, the projection of serotonergic RST axons was stalled in the upper cervical spinal cord. Most of the Smo M2-expressing RST axons were misguided with clear backward loops and anterior deflection to the brainstem (white arrowheads). Scale bar: 500 μm. **(B**, **C)** Quantification of serotonergic RST pathfinding behavior in *Nestin-Cre; SmoM2* and WT mice. **B** shows the different projection distances of serotonergic RST axons in *Nestin-Cre; SmoM2* and WT mice. Data are presented as the mean ± S.E.M. (mm). WT: 13.001 ± 0.488; *Nestin-Cre; SmoM2*: 0.881 ± 0.101. **C** shows the percentage of axons with normal and misguided behavior in *Nestin-Cre; SmoM2* and WT mice. Data are presented as the mean ±

S.E.M. (%). WT: 100 ± 0 % normal; *Nestin-Cre; SmoM2* mice: 1.00 ± 0.05% (normal projection); 29.33 ± 3.11% (stalled or projected over a short distance); 69.67 ± 2.36% (anterior deflection). Error bars were derived from sets of experiments, and *n* indicates the total number of embryos quantified. Asterisks indicate values that differ significantly from the values of the control groups ($P < 0.05$).