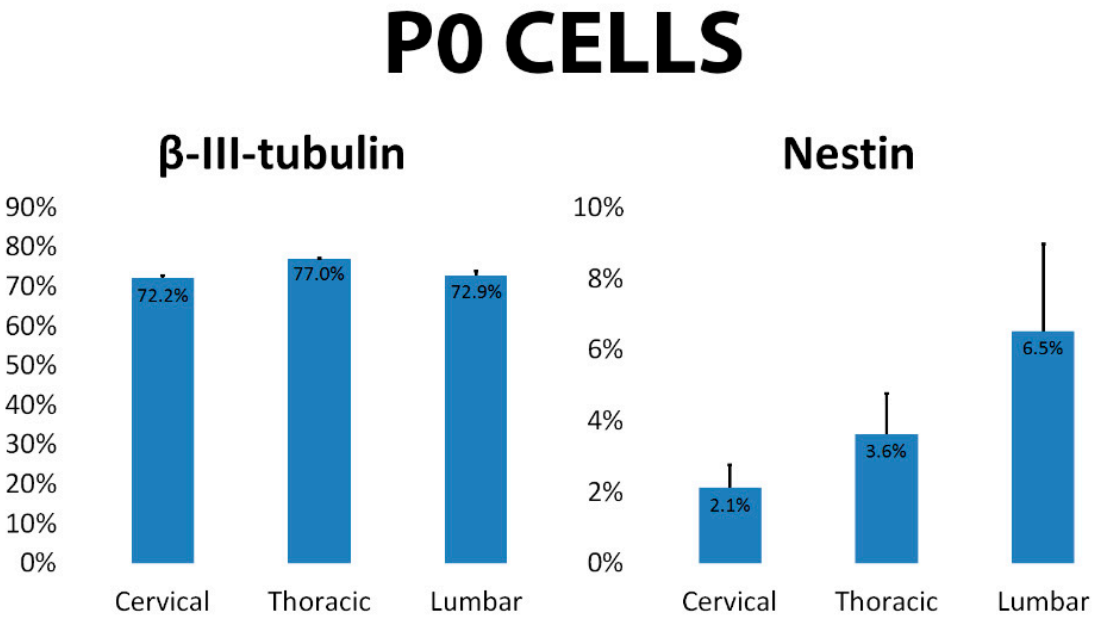

Figure S1. Quantitative in vitro characterization of fetal cells (P0 cells) isolated from different segments of E14.5 embryo spinal cords. Approximately ¾ of the cells expressed neuronal marker III-β-tubulin while no significant differences were seen between the cells from the different spinal cord segments. Number of Nestin+ progenitor cells increased from Cervical < Thoracic < Lumbar though the differences were not significant.

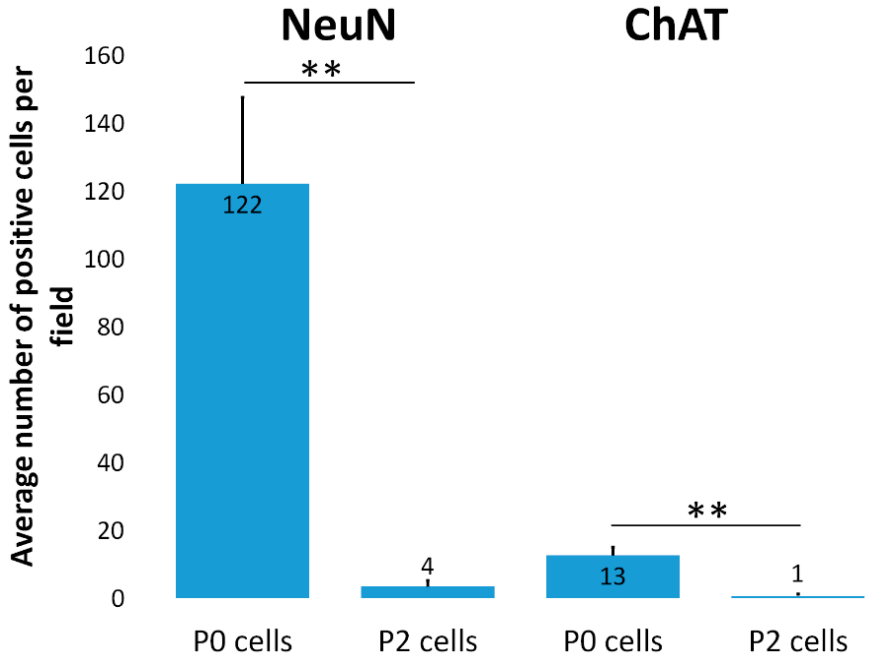

Figure S2. Quantitative characterization of grafted cells in vivo. Number of NeuN^{+}GFP^{+} cells and ChAT^{+}GFP^{+} cells was significantly higher in the P0 cell graft compared to the P2 cell graft. ** $p < 0.001$. Quantification is done for 6 weeks timepoint. $n = 5–6$ in each group.

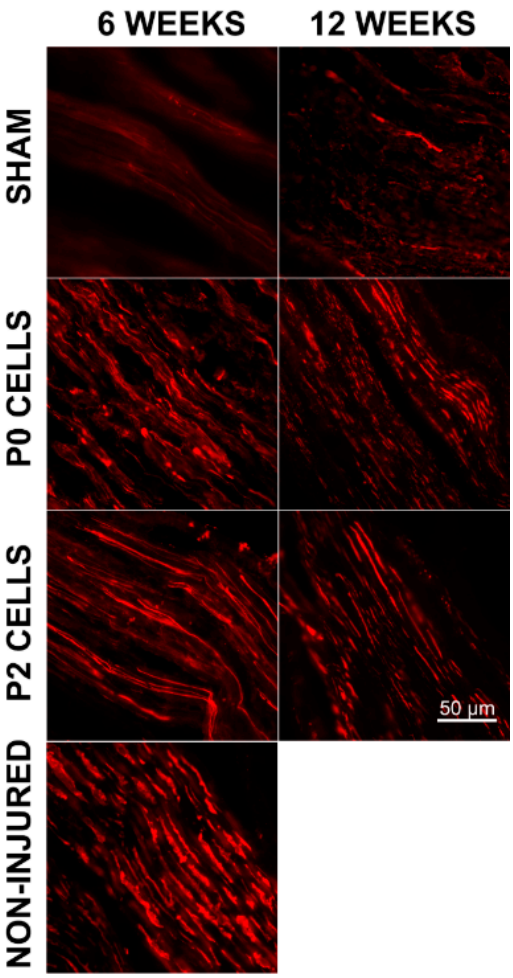

Figure S3. Musculocutaneous nerve longitudinal sections distal to the cell graft showing NF200^{+} axons 6 and 12 weeks after nerve injury. Very few axons were seen in the sham group while the cell-grafted nerves show numerous thin NF200-positive axons extended towards the target muscle. Thick axons in the non-injured nerve are shown for comparison.