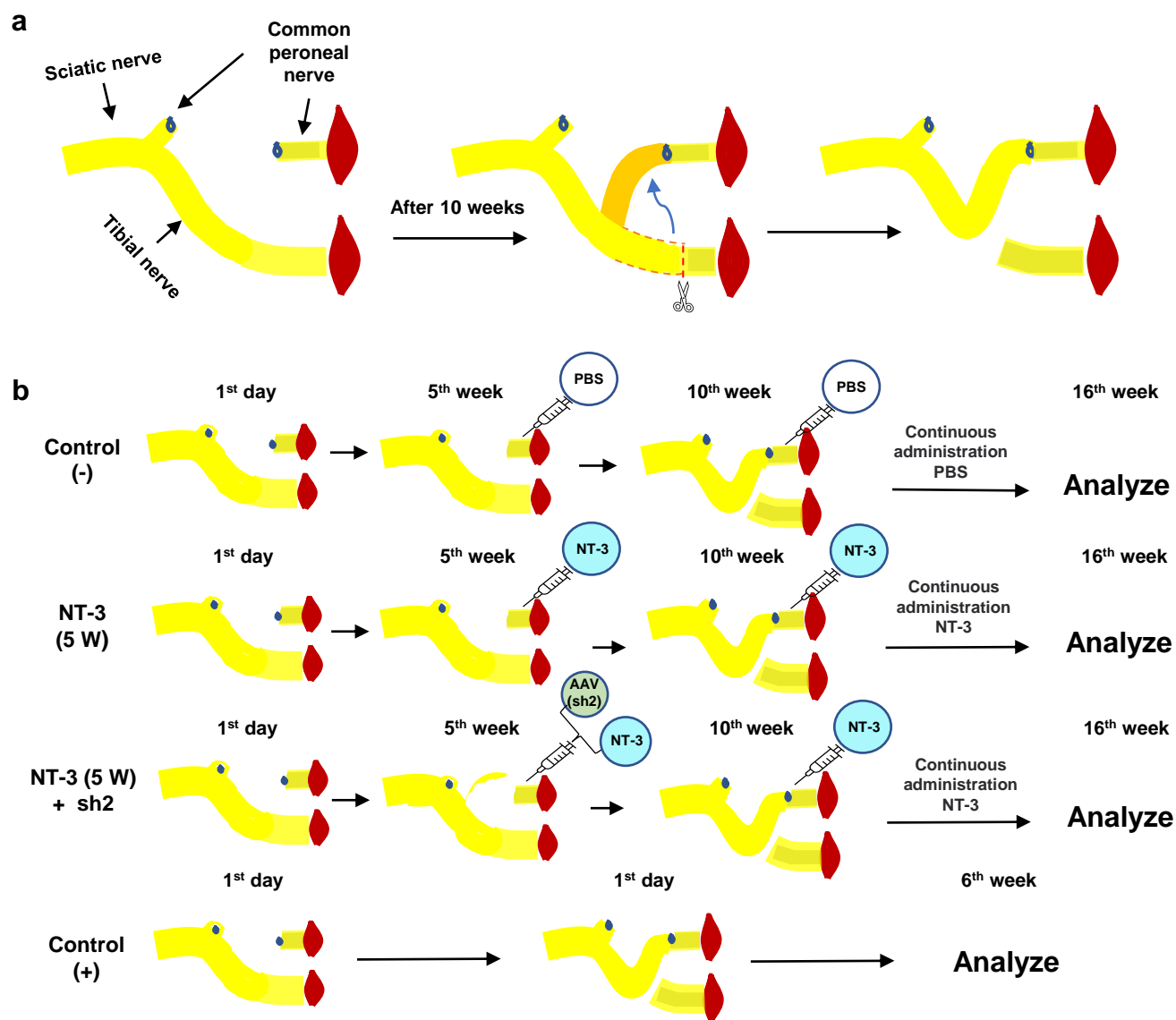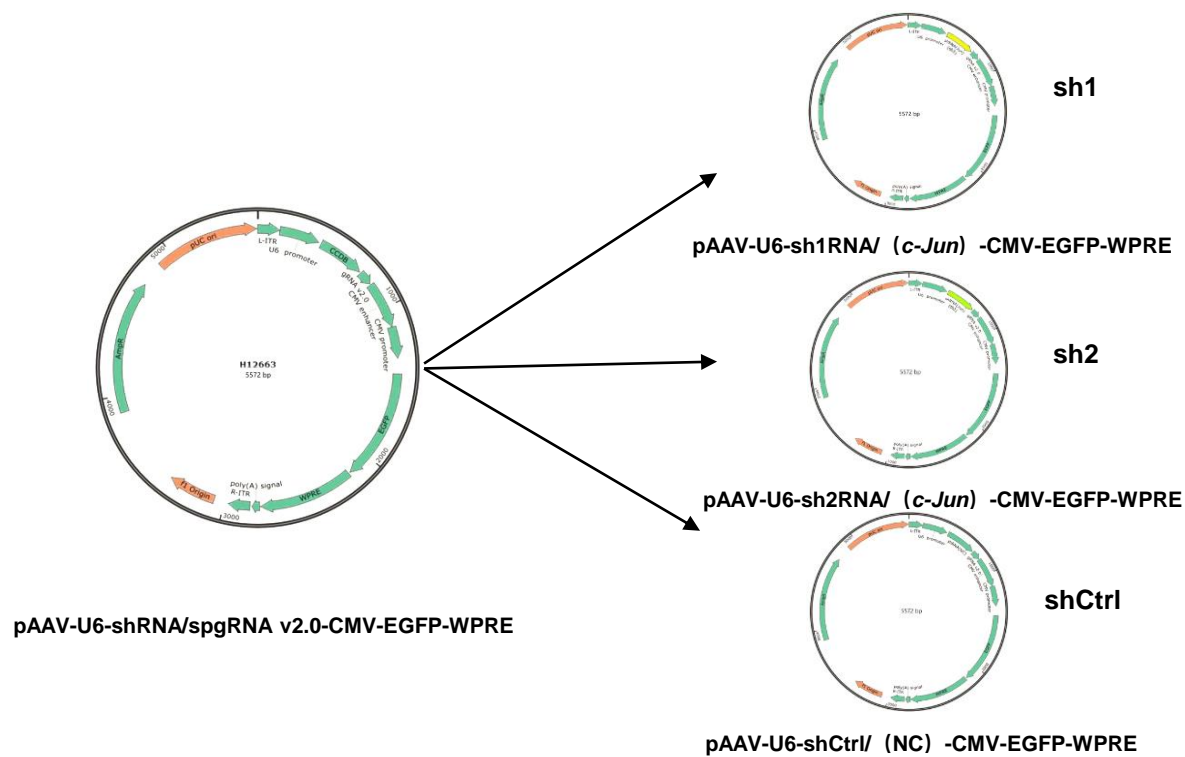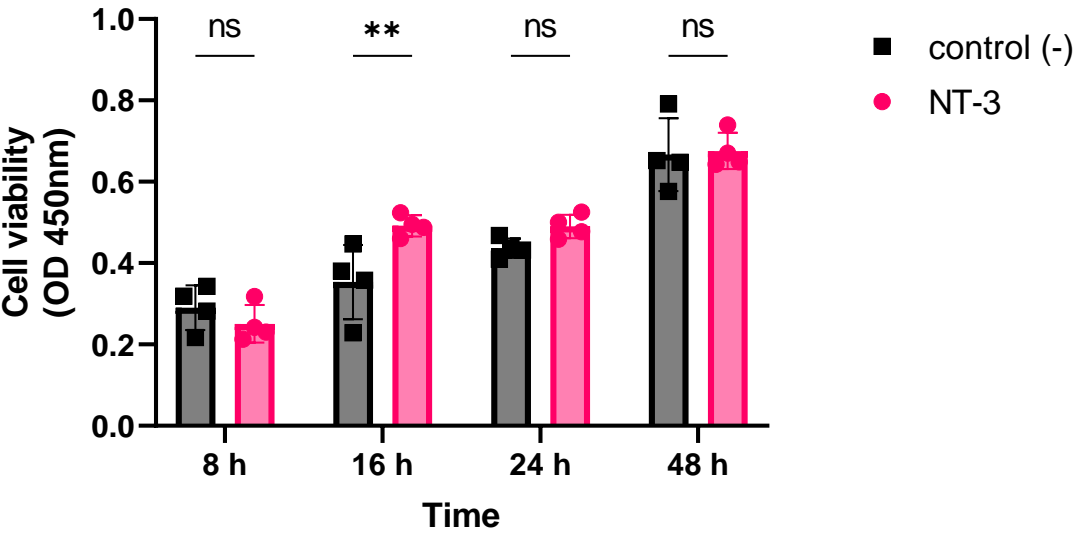**Supplemental Figure 1**   Establishment of regeneration model of peripheral nerve after chronic denervation

Supplemental Figure 2 Designing shRNA sequences and constructing AAV vectors.

pAAV-U6-shRNA/spgRNA v2.0-CMV-EGFP-WPRE

sh1

pAAV-U6-sh1RNA/（*c-Jun*）-CMV-EGFP-WPRE

sh2

pAAV-U6-sh2RNA/（*c-Jun*）-CMV-EGFP-WPRE

shCtrl

pAAV-U6-shCtrl/（NC）-CMV-EGFP-WPRE

Supplemental Figure 3 The viability of Schwann cell was measured by CCK-8 kit assay at different timepoints

Supplemental Figure 4 FITC-CTB-labeled motor neurons in anterior horn of the spinal cord