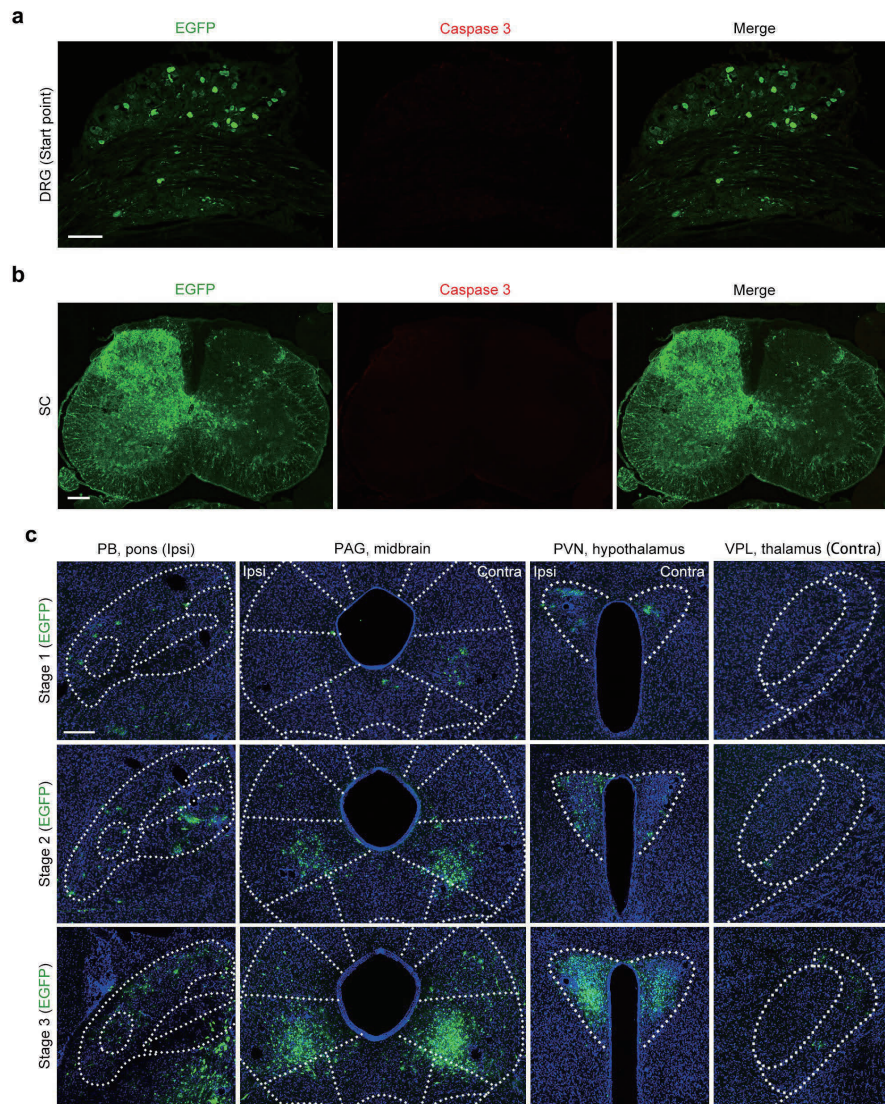




Supplementary information Fig. S1 Tracing of the somatosensory neural network in the brain arising from lumbar 5 DRG neurons. **a**, The expanded images of DRG in Fig. 1c showing EGFP-labeled DRG neurons did not express Caspase 3 ($n = 19$). Scale bar, 200 μm . **b**, The expanded images of SC in Fig. 1c showing EGFP-labeled neurons in the SC did not express Caspase 3 ($n = 19$). Scale bar, 200 μm . **c**, EGFP-labeled neurons in the ipsilateral PB, PAG, PVN and contralateral VPL. Scale bar, 200 μm ($n = 8$ for stage 1, $n = 5$ for stage 2, $n = 6$ for stage 3).