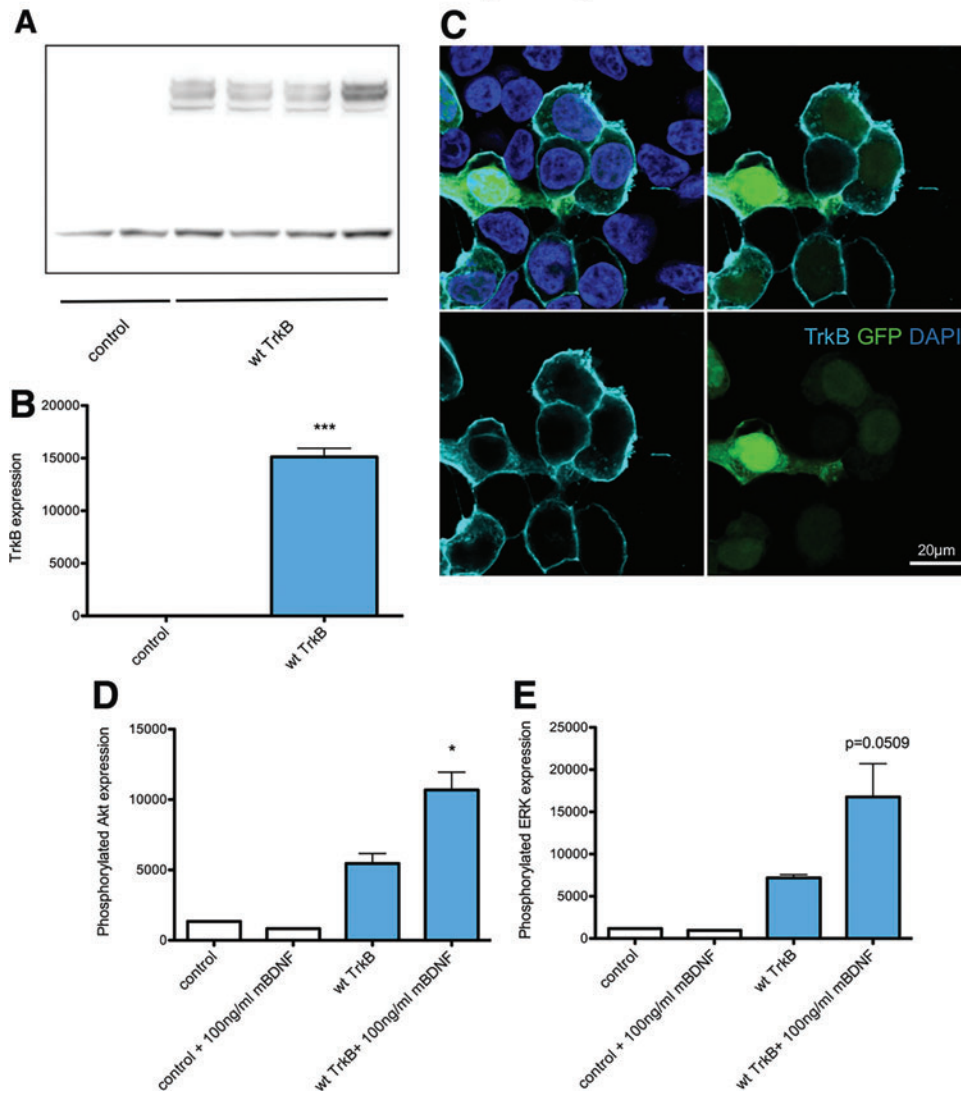


In Vitro (plasmid)



Supplementary Figure S4. Independent testing of HEK293 cells transduced with wt TrkB ensured the transgene for TrkB was correct and functional prior to incorporation into construct TrkB-2A-mBDNF. **(A and B)** HEK293 cells expressed TrkB protein 24 h after transduction with wt TrkB ($n=4$); $p < 0.001$ compared to control. **(C)** Expression of the TrkB receptor was observed around the cell membrane of transduced, GFP-positive cells. **(D and E)** Downstream activation could be detected after administering recombinant mBDNF for 4 h to TrkB expressing HEK293 cells ($n=4$); * $p < 0.05$ compared to wt TrkB. TrkB, tropomyosin-related receptor-B.