



Fig. S1. Electrophysiological properties of neurons derived from BDNF-GFP ESC clones. (A) Phase contrast picture of a neuron derived from BDNF-GFP clone H1 in microculture on cover slips at 11 DIV. (B) BDNF-GFP fluorescence of the same neuron as shown in (A). (C,D) Patch clamp recording of a neuron derived from BDNF-GFP clone E2 in the current clamp mode at a holding potential of -70 mV. At this stage of differentiation, neurons fired regular action potentials upon short current injection, and displayed repetitive firing upon sustained current injection (D).