Fig. S1  Effects on gene expression of chronic intraperitoneal injections of vehicle solution (controls of Figure 5) compared to uninjected WT and Crtc1−/− mice (controls of Figure 2). (A) Effects of chronic injections on total Bdnf expression in the hippocampus (HIP) and prefrontal cortex (PFC). Chronic injections reduced Bdnf levels of WT in the HIP and PFC (***p<0.01, ****p<0.001) and of Crtc1−/− mice in the PFC (####p<0.001, vs. Crtc1−/− mice). (B) Effects of chronic injections on BdnfIV expression in the HIP and PFC. Chronic injections had no effect on BdnfIV levels in the HIP. Injections significantly downregulated BdnfIV in the PFC of Crtc1−/− mice (##p<0.01, vs. Crtc1−/− mice), and they also presented lower BdnfIV levels than injected WT mice in the same structure (§p<0.05, vs. WT injected). (C-F) Effects of chronic injections on Nr4a1-3 expression in the HIP and PFC. Chronic injections significantly decreased the expression of Nr4a1-3 in the HIP and of Nr4a2-3 in the PFC of WT mice (*p<0.05, ***p<0.001, vs. WT mice). Non-injected Crtc1−/− mice presented lower Nr4a1-3 levels in the HIP and PFC than non-injected WT mice (†p<0.05, vs. WT mice), except for Nr4a3 in the HIP. Injected Crtc1−/− mice also displayed lower levels of Nr4a1 and Nr4a2 in the PFC (§p<0.01, vs. WT injected). In Crtc1−/− mice, chronic injections only reduced the levels of Nr4a3 in the HIP (###p<0.001). *: WT vs. WT injected, †: WT vs. Crtc1−/−, #: Crtc1−/− vs. Crtc1−/− injected, §: WT injected vs. Crtc1−/− injected.