

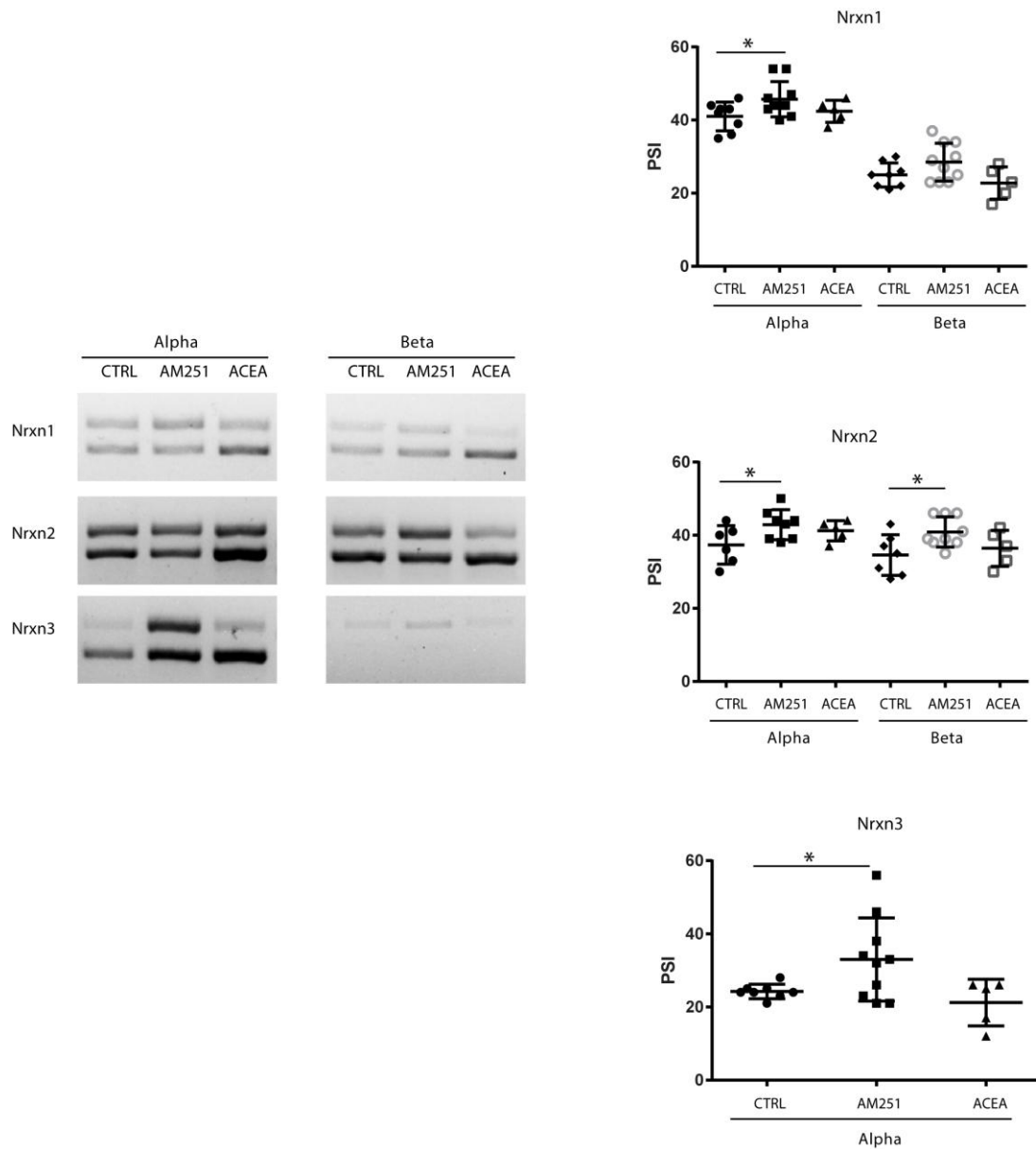


Figure S1. Splicing pattern of α/β Nrns after CB1 receptors stimulation.

A) RT-PCR analysis performed with selective primers to discriminate α and β isoforms of Nrns (1-3) in hippocampal slices after stimulation for 6h with ACEA or AM251. B) Relative scatter plots show the PSI, calculated by densitometric analysis (Image Lab 6.0) of Nrns (1-3) splicing pattern in hippocampal slices. AM251 treatment induced higher level of +SS4 (inclusion) in α and β isoforms. Hippocampal slices treated

only with vehicle were used as control. Results were obtained from (5-10) samples selected from n=2 independent experiments. * $p < 0.05$; Error bars represent SD.

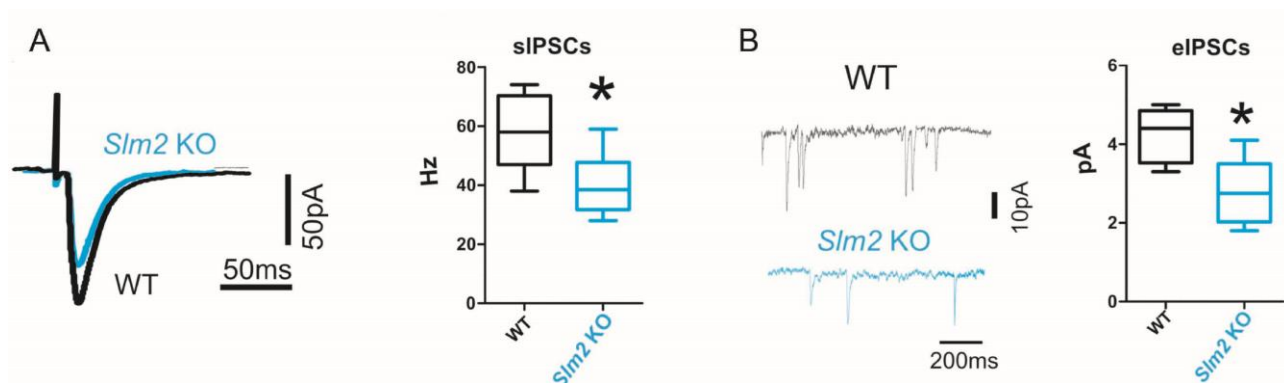


Figure S2. *Slm2* ko electrophysiological characterization of GABAergic input.

Representative traces of spontaneous (A) and evoked IPSCs (B) recorded from WT (black) and *Slm2* ko mice (blue). Box plots show that *Slm2* ko mice have a significant reduction of both evoked IPSCs amplitude and spontaneous IPSCs frequency.