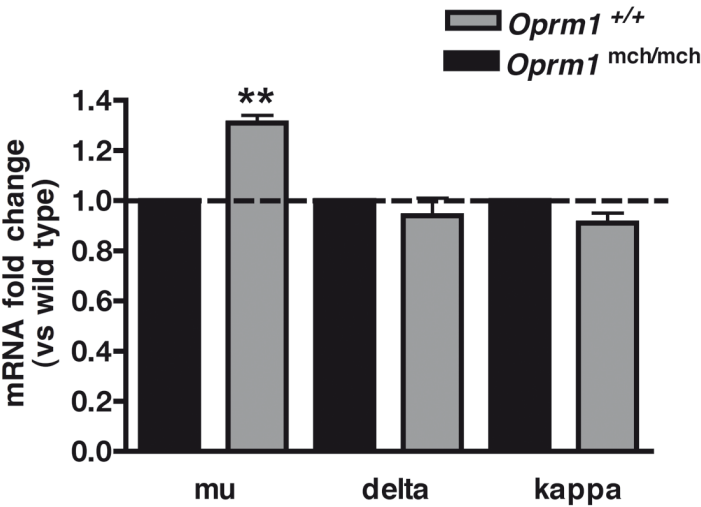


Supplemental Figure 1: Molecular characterization of the MOR-mcherry knock-in mouse,

(A) Opioid receptor transcripts. Quantification of Oprm1 (mu) Oprd1 (delta), and Oprk1 (kappa) transcripts on mRNA preparations from Oprm1+/+ (black bars) or Oprm1mch/mch (grey bars) brains (n= 3 animals per genotype).

(B) Receptor signaling. [³⁵S]GTPγS incorporation was measured on brain membranes from Oprm1+/+ (■), Oprm1+/mch (●) and Oprm1mch/mch (▲) mice following stimulation with the DOR selective agonist AR-M100390 or KOR selective agonist U50-488H. Data are the mean ± sem from independent experiments performed in triplicate (n=3 animals per genotype).

A



B

