

Figure 6-figure supplement 1

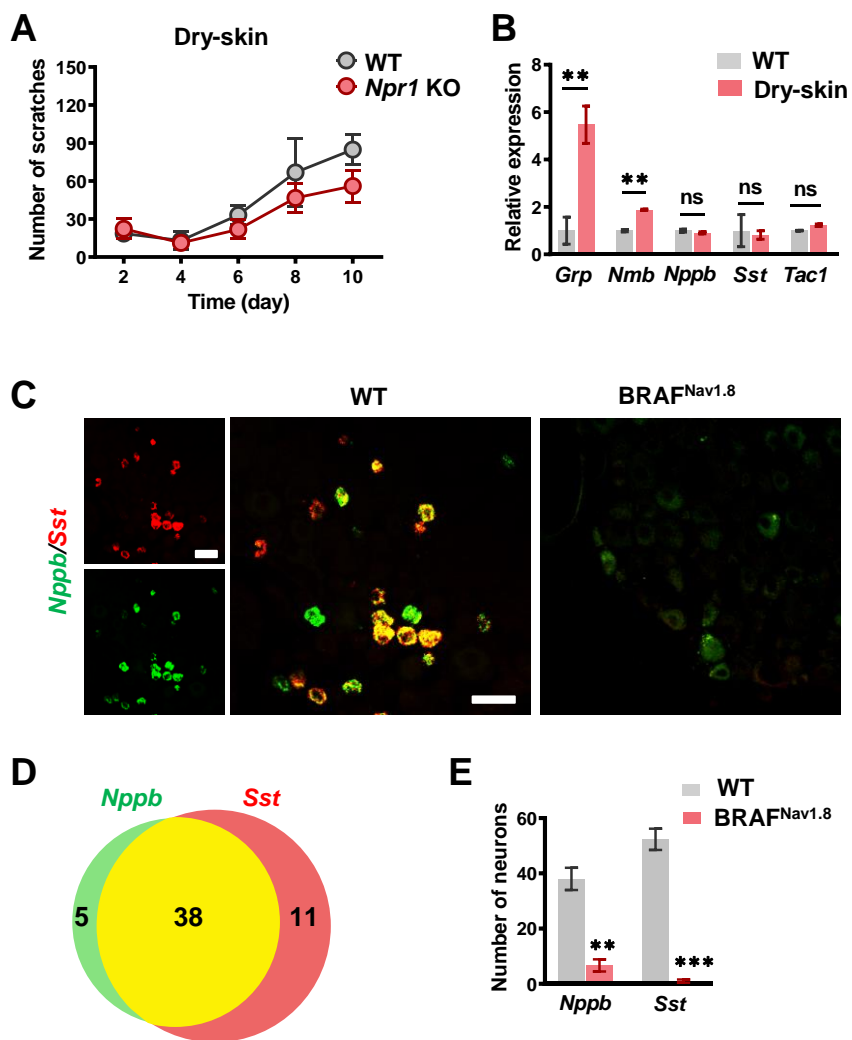


Figure 6-figure supplement 1: BNP-NPRA signaling is dispensable for

nonhistaminergic itch and neuropathic itch. **A**, *Npr1* KO mice and WT littermates showed comparable spontaneous scratching behaviors in the dry skin model. $n = 6$, $P = 0.1283$, $F_{1,50} = 2.392$, repeated measures Two-way ANOVA. **B**, Real-time RT PCR showing significantly reduced levels of *Grp*, *Nmb*, *Nppb*, *Sst* and *Tac1* in DRGs of dry skin mice relative to WT mice. $n = 4$. **C**, RNA scope ISH images showing that *Nppb* and *Sst* were largely co-expressed in WT DRG neurons. *Nppb* and *Sst* signals were dramatically reduced in DRGs of BRAF^{Nav1.8} mice. **D**, Venn diagram showing overlapping expression of *Nppb* and *Sst*. **E**, Quantified data of RNA scope showing that the numbers of *Nppb* neurons and *Sst* neurons were significantly reduced in the DRGs of BRAF^{Nav1.8} mice. $n = 4$. Values are presented as mean \pm SEM. ** $P < 0.01$, *** $P < 0.001$, unpaired t test. Scale bars, 50 μ m.