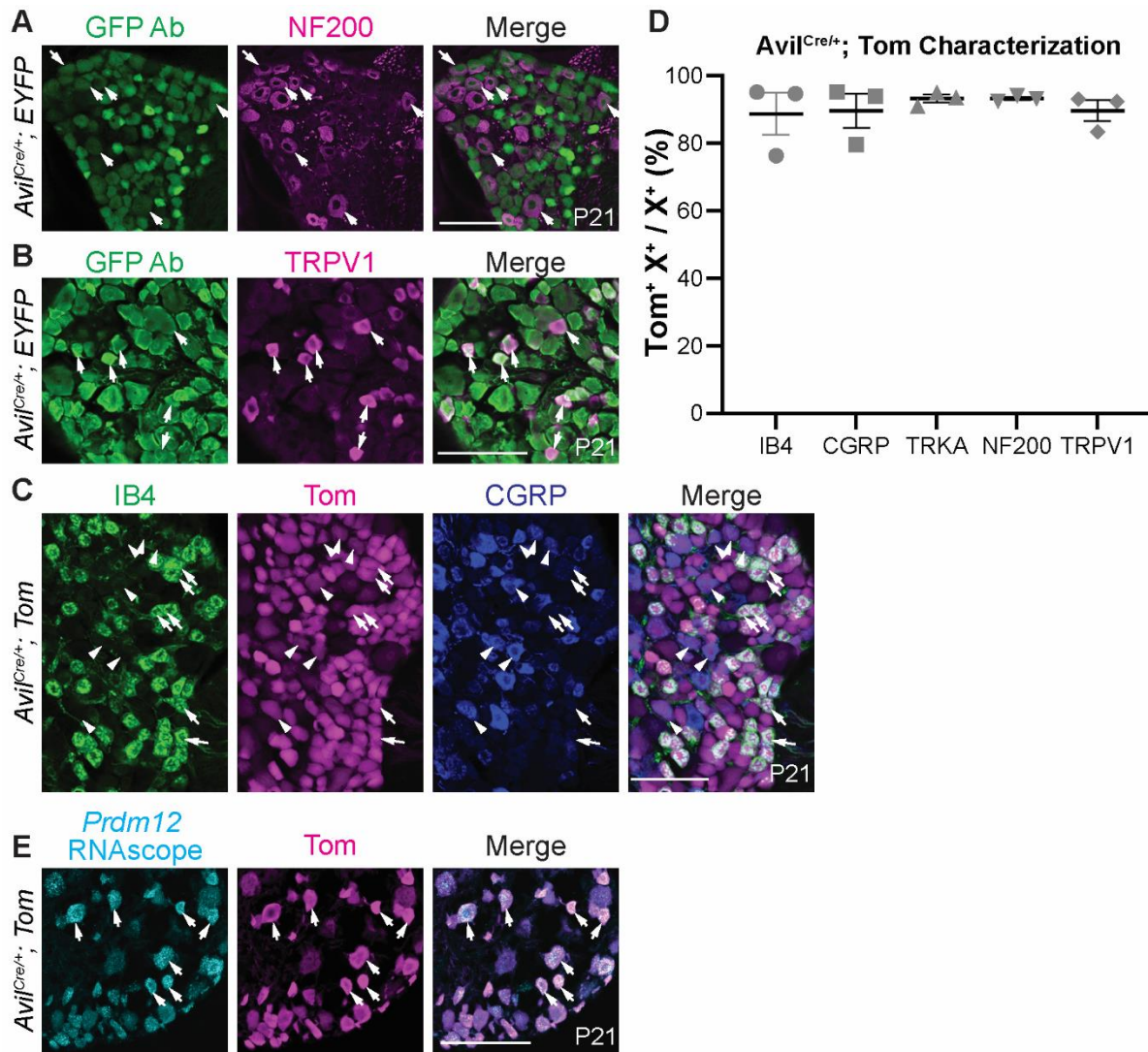


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Supplemental information

**Loss of *Prdm12* during development,
but not in mature nociceptors,
causes defects in pain sensation**

Mark A. Landy, Megan Goyal, Katherine M. Casey, Chen Liu, and Helen C. Lai



Supplemental Figure 1. Characterization of a sensory neuron specific CRE line. Related to Fig. 3. *Avil^{Cre/+}* crossed to a CRE-dependent reporter identifies DRG neurons expressing CRE recombinase. (A-C) *Avil^{Cre/+}*-lineage neurons colocalize with myelinated DRG neurons (A, NF200⁺, arrows) unmyelinated TRPV1⁺ neurons (B, arrows), and nonpeptidergic (C, IB4⁺, arrows) and peptidergic (C, CGRP⁺, arrowheads) C-fibers. (D) Quantification of Tom⁺ neurons as a percent of neurons expressing other markers in the *Avil^{Cre/+}* lineage. Counts are the average of three L2-5 DRG sections per animal in n=3 mice. (E) The *Avil^{Cre/+}*-lineage also colocalizes with *Prdm12* mRNA expression (arrows, RNAscope). Scale bars 100 μ m.

Table S3. Sequences for qPCR and genotyping primers, and the *Prdm12* exon V probe.

Related to the STAR Methods.

Sequence Type	Name	Sequence	Reference
qPCR Primers	Prdm12 exon 1 F	TCAAAACAGGGCTGAAGGCT	Desiderio et al. 2019
	Prdm12 exon 1 R	TTGCGCCATCGGCCATATAA	
	Prdm12 exon 5 F	CTTGGGGAGGGCAATGCTTA	Desiderio et al. 2019
	Prdm12 exon 5 R	TCCAATCACAGCCAAGGGTC	
	Ntrk1 F	AGAGTGGCCTCCGCTTTGT	Bartesaghi et al. 2019
	Ntrk1 R	CGCATTGGAGGACAGATTCA	
	Calca F	TTTGAGGTCAATCTTGAAAGCA	Harvard PrimerBank
	Calca R	CTGAGCAGTGACACTAGAGCC	
	Scn10a F	ACCGACAATCAGAGCGAGGAG	Laedermann et al. 2014
	Scn10a R	ACAGACTAGAAATGGACAGAATCACC	
	Mrgprd F	TTTTCAGTGACATTCCTCGCC	Harvard PrimerBank
	Mrgprd R	GCACATAGACACAGAAGGGAGA	
	Trpv1 F	CCGGCTTTTTGGGAAGGGT	Harvard PrimerBank
	Trpv1 R	GAGACAGGTAGGTCCATCCAC	
	Trpm3 F	CAAGATGCCTGCCGTTTTTCT	Harvard PrimerBank
	Trpm3 R	GTCTAATTGGCAACTACCCCAA	
	Trpa1 F	GTCCAGGGCGTTGTCTATCG	Harvard PrimerBank
	Trpa1 R	CGTGATGCAGAGGACAGAGAT	
	Trpv2 F	TGCTGAGGTGAACAAAGGAAAG	Harvard PrimerBank
	Trpv2 R	TCAAACCGATTTGGGTCCTGT	
	Trpm8 F	ACAGACGTGTCCTACAGTGAC	Harvard PrimerBank
	Trpm8 R	GCTCTGGGCATAACCACACTT	
	Sst	ACCGGGAACAGGAACTGG	Harvard PrimerBank
	Sst	TTGCTGGGTTGAGTTGGC	
	Nefh F	AGCCTGCACTACTCGCTGA	Harvard PrimerBank
	Nefh R	GGCCGTTGCTTAGGGTGTC	
	Ntrk2 F	CTGGGGCTTATGCCTGCTG	Harvard PrimerBank
	Ntrk2 R	AGGCTCAGTACACCAAATCCTA	
	Ntrk3 F	CTGAGTGCTACAATCTAAGCCC	Harvard PrimerBank
	Ntrk3 R	CACACCCCATAGAACTTGACAAT	
	Pvalb F	ATCAAGAAGGCGATAGGAGCC	Harvard PrimerBank
	Pvalb R	GGCCAGAAGCGTCTTTGTT	
Atf3 F	AGCTGAGATTCGCCATCCAGAA	Laedermann et al. 2014	
Atf3 R	CTCGCCGCCTCCTTTTCCT		
Kcnma1 F	AAGACGAAGGAGGCCAGAA	Laumet et al. 2015	
Kcnma1 R	TCAGTGTCTGGGCGGATATC		
Hprt F	GTCCTGTGGCCATCTGCCTAG		

	Hprt R	TGGGGACGCAGCAACTGACA	Harvard PrimerBank
Genotyping Primers	Prdm12dlg	GGTGCAAGGTCCAAATGTCT	Chen et al. 2020
	Prdm12drg/Null R	CACACTGCAGCTGGCTAAAC	
	Prdm12 Null F	TTCGGATGAGATGGCTAAGG	
	Cre F	GGACATGTTTCAGGGATCGCCAGGCG	This lab
	Cre R	GCATAACCAGTGAAACAGCATTGCTG	
	iCre F	AGATGCCAGGACATCAGGAACCTG	The Jackson Laboratory
	iCre R	ATCAGCCACACCAGACACAGAGATC	
ISH Probe	Prdm Exon V	GCAGGGCCCGCTCTCCACGCGGACATC TCTGTCCTAGATGACAGGAGAGGGGGAA CAGACGATCTCCAAAGAGAGCTGAGTAG TTGGGAGTGGAAGAGAGAGCTACCTCCT TGGCCCAGAGTGGGCTTGGGGAGGGCA ATGCTTATCTCTGCCTCCTGGGAATGGT GTCTTGATGTGTCACGAGTGGAGGGAA GACGTTGACCCTTGGCTGTGATTGGAGC CCTAAAGTGATTAGCACAGACCGGGAGA GACCTGATCATTTCGGGGGGCCCTGCTTT CCTTCAGGCTACTTTCCCTAGCCTCCAG CTCCCAGGGAAGGACAAGACGACAATAT ATTTTTTGAAGTGTGCTGGGCAGATTGA GAGTGGAGTCACAAGAGACATTTACCAC AGCCCGTGGGCAAGACCCTGACCCTTTT GGGGCTTCAGTTTCCCATCTATAGAAC GCAGTAATTAGATCAGTGCTCCCTCTCC TAAATCTC	This paper