

Supplementary Table 1 Genes mis-expressed in both Nav1.7 and Nav1.8 null mutant DRG

Gene	Fold-change Nav1.7	Fold-change Nav1.8
<i>Ceacam10</i>	- 18.94	- 2.63
<i>Smr2</i>	+1.96	-1.78
<i>Lrrc31</i>	-4.37	-1.66

Three transcripts are common to the altered transcriptome in Nav1.7 and Nav1.8 null mutant dorsal root ganglia, although *Smr2* is upregulated in the absence of Nav1.7 but downregulated in the absence of Nav1.8.

Supplementary Table 2 Genes mis-expressed in both Nav1.7 and Nav1.9 null mutant DRG

Gene	Fold change Nav1.7	fold change Nav1.9
<i>Ptger1</i>	+2.68	-1.92
<i>Sox11</i>	+1.57	-1.63
<i>Lrat</i>	-1.57	-1.71
<i>Npy1r</i>	-1.8	-1.68
<i>Jun</i>	+1.94	-1.52
<i>Mbp</i>	-1.52	+1.52
<i>Msi2</i>	-1.52	+1.6

Several genes are dysregulated in both Nav1.7 and Nav1.9 null mutant mouse DRG , but only 2 (*Npy1r* and *Lrat*) are jointly downregulated.