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Supplemental Data

KIF1A, an Axonal Transporter of Synaptic Vesicles, Is Mutated in Hereditary Sensory and Autonomic Neuropathy Type 2

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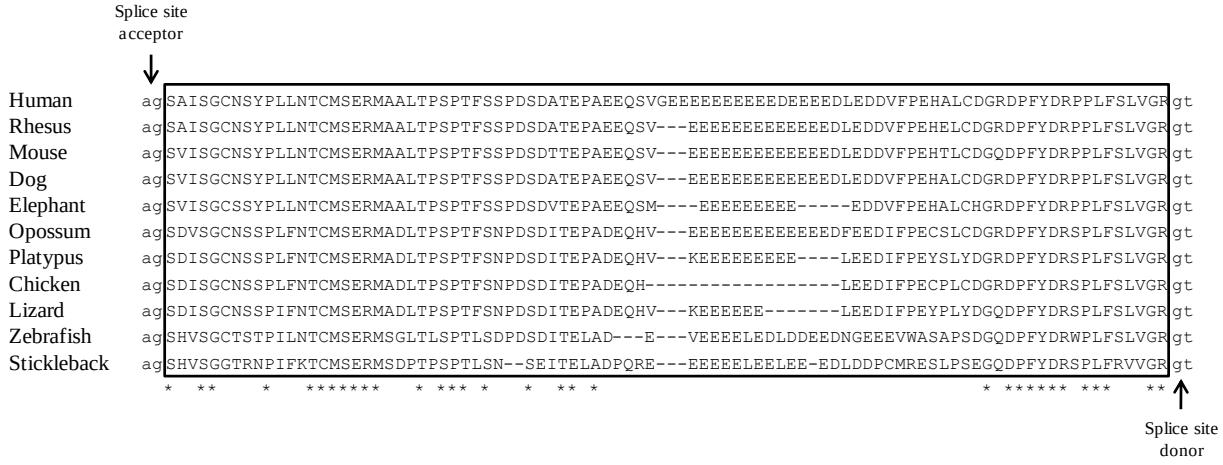

Figure S1. Conservation across species of splice acceptor/donor sites and amino acid sequence of exon 25b. Asterisks below the residues indicate amino acids fully conserved across the different species.

Table S1. Primer sequences for *KIF1A* screening, and characterization of the *KIF1A* exon 25b-containing isoform.

Exon	Template	Forward Primer	Reverse Primer
2	Genomic DNA	CTGTCCTGCCTCCTCAGATA	CCCATAGGCACAGGACCAT
3	Genomic DNA	TCCCCACCTTGGAGTGTAGA	AGCGGCTCAGAGAAGTTGAG
4	Genomic DNA	GCAGACATGATGGGCTGAG	CCTCCTGACTCCCTGCTCT
5	Genomic DNA	CACAGGCTGCCCACAGTAT	GGCACTCACTTTGCATCAGA
6	Genomic DNA	CATCTCCTCACTCAGGGGTC	GAGGTGAAGGGGCTTCCTC
7	Genomic DNA	ATGACCTGGTTCAGAGGGCT	GACCACCACCCCTACCCT
8	Genomic DNA	AACAGCTGTGGAGACCTTGC	CTCCTGCCACCCACTCTG
9	Genomic DNA	GTGGCCTCCACTCCACAC	CGGAAACGAGGGTGACAG
10	Genomic DNA	AGACCACGGGGTGGTAGAG	GCCAATGCAGGGCAGAC
11	Genomic DNA	CAGCTTTGAGGACCCACTTG	AGTGGGGAAGAAGGGCAC
12	Genomic DNA	CAGCCTCCCCATCTGTAAAT	TGGTCACTGGTGCTTCCTAA
13	Genomic DNA	CTCTAGGCACCCTTGGGAC	CCCAGGAGAGAGGATGTGAT
13b	Genomic DNA	TGACCCTCTGGAGACAAACC	GTTCACCCCTCCCTGACC
14	Genomic DNA	CCATAGACGTGTCCGACCTT	TGCCTCTCTAACTCCTCCGA
15	Genomic DNA	GAATATGGCGCTTGTGCTTT	AGGGCTCAGTGCTCATCCT
16	Genomic DNA	CCCCATTGGTCAGCCAG	GTGCTCCCCTACTTCCAGG
17_18	Genomic DNA	GGTAGTCTGGTGCCTGGAGA	TTAGTGCTGGGTAAGCTGGG
19	Genomic DNA	AGGGAAAAGAGAGGCGAGAG	CTTGGACATGGGAACAGAGG
20_21	Genomic DNA	CCCTTTCTCCTCACGCCT	TTAGATGCAAGAGATGGGGC
22	Genomic DNA	CTGTCTAGGCGCAGTGTGAG	GCAAAAGTGCTGACCAGTGA
23	Genomic DNA	CACAGGGTCAGCTTAGGCA	CAAGTAGCTGTCCCCGTCAT
24	Genomic DNA	TGAAATCTCCAGAAGGTGGG	CTGCAGGTACTCGCTGTGAA
25	Genomic DNA	CCACTGTCCCCAGGAGATAA	TGGAAAAGCACTTGTCAGGG
25b	Genomic DNA	TAAAGCAGCATTCTCGATGG	AGCGGTTCCTCTGTGCC
26	Genomic DNA	TTTGCAGCTCCATGTTGTGT	CCTCTGCCTGCAAAGGTC
27	Genomic DNA	CCTGTGCCCTCACTTTGACT	CAGGGGTGTTAGAGGAGCAA
28_29	Genomic DNA	GTGGCAGGGTCTACGGTG	CAACACAGCACCAACATGG
30	Genomic DNA	GTGGGTTCCACCTGGTAAGG	AGAAGAGGGAGAATGAGCCA
31	Genomic DNA	TGATGTGACTCTCCTTCCCC	GCTGGATGAAAAGATCTGGG
32	Genomic DNA	CCTGTAGCCCTTCTGTCTCC	ACAGCCCAGTCACAGAGGAC
33	Genomic DNA	GGCATCTCCTCCTTGAGTGT	GGAAGAACGACTCTGGATGC
34_35	Genomic DNA	GTCCACTGTGTCCTGTGCTG	CAGACGCAGAGGTGTGGTTA
36	Genomic DNA	AGCTGGCTTGCTGACAGG	GTCACCTTGTGTGGCTGAAC
36b	Genomic DNA	GCCGGTGCTTGTTCTGAC	CCGAGGAGAAAGGAACTCG
37	Genomic DNA	CCCTTGTCTGTCGCTCTGTC	TCTGGGTCATATGGGGTTGT
38	Genomic DNA	AGAAGGCTGGAAGGGCAC	GAGTGTGGCTGGGCCTC

39	Genomic DNA	GGCTGACTGTGCGTTTGATA	AAATGGCAGCTTCGCTGT
40	Genomic DNA	AGAGGGGAGACAGCTTCACA	CTCCAGCTTTTGCTCTGCAC
41	Genomic DNA	GCTGAGGCTGAGCACAACT	GGAGTTGCCCAGAAATGACT
42	Genomic DNA	AGGGGTGGGTAGAAGAGCCT	AATGGGAGTTTTCCTCAGGG
43	Genomic DNA	TAAGCAGCAGGTGTGGGGTA	GTGCTCTCTGTGCCCGAGT
44	Genomic DNA	TGAGGAGGGTGAAGCCTG	TGTCTCCCCAAGTATGAGGG
45	Genomic DNA	GTGGTAGATGGTGAGTGCCC	GAGTCTGGGGTGAGCAGATG
46	Genomic DNA	GGGACTTTCCTGGCAGTG	CAGCAGGGCCCTATCAAAT
47	Genomic DNA	CAGGGCACGGTGGATATG	GCTGTCTGGCAGGAGAGG
2 to 25b	cDNA	GGCCGGGGCTTCGGTGAA	GAGTCGGGGCTCGAGAAGGTG
24 to 25b	cDNA	AAGAACGGGGCCACCCACTACT	GAGTCGGGGCTCGAGAAGGTG
25b to 26_27	cDNA	CGGCCGGGACCCGTTTTAC	GGGCCTCTTCATCGGCTGAG
25b to 47	cDNA	CGGCCGGGACCCGTTTTAC	CGCATCTGGGCAGACCTCCTTC
25_26 to 27	cDNA (qPCR)	TGGTTCCGGCTGGTGGGCAGGG	GGCGGACGCCAGAGCCATAATCAGG
25b to 27	cDNA (qPCR)	CCCCTGTTCAGTTTAGTAGGAAGGGC	GGCGGACGCCAGAGCCATAATCAGG
POLR2A	cDNA (qPCR)	CCCCGCTCCATTGCTGCCAA	GTGCAGAGTTGGCTGCCGGT