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Product datasheet for SC126818

KIF1B (NM_183416) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF1B (NM_183416) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF1B
Synonyms:	CMT2; CMT2A; CMT2A1; HMSNII; KLP; NBLST1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC126818 sequence for NM_183416 edited (data generated by NextGen Sequencing)

ATGTCGGGAGCCTCAGTGAAGGTGGCTGTCCGGGTAAGGCCCTTCAATTCTCGAGAGACC
AGCAAGGAATCCAAATGCATCATTCAGATGCAAGGCAACTCGACCAGTATTATTAACCCA
AAGAATCCAAAGGAAGCTCCAAAGTCCTTCAGCTTCGACTATTCCTACTGGTCTCATACC
TCACCCGAAGATCCCTGTTTTGCATCTCAAAACCGTGTGTACAATGACATTGGCAAGGAA
ATGCTCTTACACGCCTTTGAGGGATATAATGTCTGTATTTTTGCGTATGGGCAGACTGGT
GCTGGAAAATCTTATACAATGATGGGTAAACAAGAAGAAAGCCAGGCTGGCATCATTCCA
CAGTTATGTGAAGAACTTTTTGAGAAAATCAATGACAACTGTAATGAAGAAATGTCTTAC
TCTGTAGAGGTGAGCTACATGGAAATTTACTGTGAAAGAGTACGAGATTTGCTGAATCCA
AAAAACAAGGGTAATTTGCGTGTGCGTGAACACCCACTTCTTGGACCCTATGTGGAGGAT
CTGTCCAAGTTGGCAGTTACTTCCTACACAGACATTGCTGACCTCATGGATGCTGGGAAC
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TTTACGATTGTTTTCACCCAGAAGAAACACGATAATGAGACCAACCTTTCCACTGAGAAG
GTCAGTAAAATCAGCTTGGTGGATCTAGCAGGAAGTGAACGAGCTGATTCAACTGGTGCC
AAAGGGACTCGATTAAAGGAAGGAGCAAATATTAATAAGTCTCTTACAACTTTGGGCAAA
GTCATTTCAGCCTTGGCCGAGGTGAGTAAAAAGAAGAAGAAAACAGATTTTATTCCCTAC
AGGGATTCTGTACTTACTTGGCTCCTTCGAGAAAATTTAGGTGGCAATTCTCGGACTGCA
ATGGTTGCTGCTCTGAGCCCCGCGGATATCAACTACGATGAGACTTTGAGCACTCTGAGA
TATGCAGATCGTGCAAAACAAATTAAATGCAATGCTGTTATCAATGAGGACCCCAATGCC
AAACTGGTTCGTGAATTAAAGGAGGAGGTGACACGGCTGAAGGACCTTCTTCGTGCTCAG
GGCCTGGGAGATATTATTGATACATCCATGGGGTCCCTCACTTCATCCCCATCTTCCTGC
TCACTCAGTAGTCAGGTGGGCTTGACGTCTGTGACCAGTATTCAAGAGAGGATCATGTCT
ACACCTGGAGGAGAGGAAGCTATTGAACGTTTAAAGGAATCAGAGAAGATCATTGCTGAG
TTGAATGAAACTTGGGAAGAGAAGCTTCGTAAAACAGAGGCCATCAGAATGGAGAGAGAG
GCTTTGTTGGCTGAGATGGGAGTTGCCATTCGGGAAGATGGAGGAACCCTAGGGGTTTTC
TCACCTAAAAAGACCCCACATCTTGTTAACCTCAATGAAGACCCACTAATGTCTGAGTGC

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CTACTTTATTACATCAAAGATGGAATTACAAGGGTTGGCCAAGCAGATGCTGAGCGGCGC
CAGGACATAGTGCTGAGCGGGGCTCACATTAAAGAAGAGCATTGTATCTTCCGGAGTGAG
AGAAGCAACAGCGGGGAAGTTATCGTGACCTTAGAGCCCTGTGAGCGCTCAGAAACCTAC
GTAAATGGCAAGAGGGTGTCCCAGCCTGTTCAGCTGCGCTCAGGAAACCGTATCATCATG
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ATCTTATACAAAAAGGAGAAGGAAGAAGCAGATCTTCTTTTGGAGCAGCAGAGACTGGAC
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AGGCGCTTGAGTAAAGATTCCAAGTGGGTCACAATCTCAGATCTTAAAATTCAGGCTGTC
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GAGCGGGACTCCTGGAGGGCAGTGGCCAGGGACGTCTGGGATACCGTCGGTGTTGGGGAT
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CAGCAACAGCCACCTCAACTACGTTGGAGAAGCAATTCTCTCAATAATGGCCAGCCGAAA
AGTACGCGCTGCCAGGCATCTGCCTCCGCGGAGTCATTAAACTCCCACAGTGGTCACCCC
ACTGCTGATGTACAGACTTTCCAGGCAAAGCGCCATATTCATCAACACCGTCAGTCTTAC
TGTAATTATAACACTGGAGGTCAGTTAGAGGGCAATGCAGCCACTTCCTATCAGAAGCAG
ACTGACAAACCCAGCCACTGTAGCCAGTTTGTGACACCTCCGCGGATGAGGAGACAGTTC
TCAGCACCCAATCTCAAAGCTGGTCGAGAAACCACAGTATAA

Clone variation with respect to NM_183416.3
285 c=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_183416 unedited
GCCGCGAAATTCGCACGAGGGCGCCCGCGCGCGTCGGAGCAGCTCCCCGTCCTCCGCAGC
CGTCACCGCCGGCCGTCGCCGCGCTGGCCTCCCGCACTCGCGCACTCCTGTCCGCCGCCC
ACCGCCCACCTCCCACCTCGATGCGGTGCCGGGCTGCTGCGTGATGGGGCTGCGGAGCGG
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CGCCCCCGCGCGCCGCGGCTCCTGTTGACCCGGTCCGCCCGTCGGTCTGCAGCGCGGCTG
AGGAAACTTGGCTGTAACTTCAAAAGAAGATTTGATTCTTTATTTCTGGACTGCATATAT
ATATATAACAAGGCCATTAAAATGTCGGGAGCCTCAGTGAAGGTGGCTGTCCGGGTAAGG
CCCTTCAATTCTCGAGAGACCAGCAAGGAATCCAAATGCATCATTCAGATGCAAGGCAAC
TCGACCAGTATTATTAACCCAAAGAATCCAAAGGAAGCTCCAAAGTCCTTCAGCTTCGAC
TATTCCTACTGGTCTCATACCTCACCCGAAGATCCCTGTTTTGCATCTCANAACCGTGTG
TACAATGACATTGGCAAGGAAATGCTCTTACACGCCTTTGAGGGATATAATGTCTGTATT
TTTGCGTATGGGCAGACTGGTGCTGGNAAATCTTATACCATGATGGGGTAAACAGAAGNA
AGCCAGGCTGGCATCATTCCACAGTTATGTGAAGAAACTTTTGAGGAAATCAATGACAAC
TGTAATGAAAGAATGTCCTACTCTGTAGAGGTGAGCTACATGGNAATTTACTGTGAAAGA
GTACAAGATTGCCTGATCCCAAAACAAGGGTATTTGCGTGTGCGGTGACACCCACTCCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_183416 unedited
NATCTCTGNACNCGCGGCCGCAATTCTANGANCAAATTTCAGAAAACTGCCCATTTATGG
TATACAAGCAAAGGGAGGTGTTGAAACTTTTACCAGTGTTTTGTCTTAACAATATAAAAC
CAGTTAATATTTATAATGTAAATAATAAGAACTCAAGGCCAAAGGTAGAACCAAATCAAA
TCATGAGCTAACACTGTCTGTTTCTTCCACCATGATTTCAAGTTTGTCCAGTAACTGATT
TATACTGTGGTTTCTCGACCAGCTTTGAGATTGGGTGCTGAGAACTGTCTCCTCATCCGC
GGAGGTGTCACAAACTGGCTACAGTGGCTGGGTTTGTCAGTCTGCTTCTGATAGGAAGTG
GCTGCATTGCCCTCTAACTGACCTCCAGTGTTATAATTACAGTAAGACTGACGGTGTTGA
TGAATATGGCGCTTTGCCTGGAAAGTCTGTACATCAGCAGTGGGGTGACCACTGTGGGAG
TTTAATGACTCCGCGGAGGCAGATGCCTGGCAGCGCGTACTTTTCGGCTGGCCATTATTG
AGAGAATTGCTTCTCCAACGTAGTTGAGGTGGCTGTTGCTGATTATTAATGTGCTGCTTG
CTAACTTGGATGTGATCTTGACTTCTCATTCCTTGAGAGCCCCATGGAAACTGGNGATCC
TTANAAGCTCCTTTACCCCCTTTTTCTTGGCTCTCTTCTTTATTCCCTTTCCTTGCTTCA
TCGCCTTTTGGAATCCTAAGCTCTATAACCTCATCTTCTGGTATGATGATATGTGTCCCC
AGACTCCAAGAGTTCCTGTGTTTAGGGTTGCTCTTAAAGGGGAAGCGGGGCTTCCCGGTC
CTCAGAGGGATGGACCTATGANGACATCCTGCCCACGAAGCTGCCTTGTTATCCCCTGCT
GGTGGCAGTTCCTAAACCCGATTTTGCTCTTGCCTTATTCACCCCAAACGTC

Restriction Sites: NotI-NotI

ACCN: NM_183416

Insert Size: 3890 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_183416.2, NP_904325.2
RefSeq Size:	5780 bp
RefSeq ORF:	3462 bp
Locus ID:	23095
UniProt ID:	O60333
Cytogenetics:	1p36.22
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a motor protein that transports mitochondria and synaptic vesicle precursors. Mutations in this gene cause Charcot-Marie-Tooth disease, type 2A1. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) contains a different segment for its 3' coding region and 3' UTR, compared to variant 1. The resulting protein (isoform alpha) has a shorter and distinct C-terminus compared to isoform b. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.