

## Product datasheet for **SC114087**

### **KIF21B (NM\_017596) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KIF21B (NM_017596) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF21B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_017596, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGGCCAGGGGACTGCTGCGTCAAGGTGGCCGTCAAGGATCCGGCCCCAGCTGTCTGAAGGAGAAGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_017596 unedited</p> <pre>GGTCAAAATTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGCAGGCCTTT GGCCCGTGGTGGAGCCCTGTGGGGAGGTGCAGCAGCCTGGCCCCATCCCACCTTCCGAG GAGCTGGCCTCCCCGCTTCTCCCAGCCAGCCTCTAGAGCCACTGCACCTGCCTCTGAGC CCAAAAAGATAAGTCTCAGGTAGCTAAGGAAACCAGGTGTGGGCGGTGGGCCTTGACG CTAACCCCTAACCCCTTGGAACCCGACAGATAGCCCAACTGGCCCAACAGTCCCTGG GGTCCCTTTGGATGGGGCCAAGGTGGAGCTGCTAGAAAGATTCTTTGGGGAGATGGTC AGAAATACTTCAGTTATTTATTATTTTGTATTTTATTTTGTCTGTTGCCTCCTGGAA ACGGACTTGAAGTTTCTCCCTATATTCTTCCCTCAGCTCTTGGGGCCAGAAATCCC AAAGGGAGTCCGCTGCCCGGCCCTCCAGGGCCGCCTCCTCTGTTTGCTTGCAGAGGAG GGAAGTGTCTTTCGACTCTGCAGCTCAGGCCTGTCCCCGACACAGCCCCAGGGAGTCT TCTAGCTACCCCTGGCCTCTAGGCCGCTGACGCTCAGTGCCTTCTCCGTTCCGGGGCC TGGTACCCGTGCCGGCAGCCTTACACCAGCCATGCCCGCGCACCATGTGTCTTCTA CTCGCGAGGTCTGTGCCAGCGCCCCGAAAGGGCGGGGGCGCTACCCCGAGCCAGCCC CCGGGGGTTCTGCCCCAGNCTTGCCTGGGCCCGTAGAACCACGTGGGGGCTGTGCTGC TGGGAAGTGCCTGATTGGGGAGAGGAAGNCCGAACCCTGACCCCGNCTNCCCAGNCTGA GTCCCACTGGCCCGGGATCTCTCACT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_017596 unedited</p> <pre>TCTTGGCCGCGGCCGCAATCTAAATCGAGTTTTTTTTTTTTTTTTTTTGGACATTGGTCATT CAGGTTTTATTTATGACAACTGTCTTAAAACACACACATCCAATCTAGGAACAGAAATGT ACAACATGGGGCTTAAATAACTTTCATACACTATGTACAGCCATCGGCAGAGGTACAAAA CATATATACACCTTGTGCTAGTCACATCATGGAGGACAGCAGGAGCCTAATGAAGCCTGC AGCCTGGGCAGGACATGATTGCTAGAAAAGAGTTGGTGGGCAGGGCAGGGCCCTGATTCA TCTCAGGGGTCTTCTCTGATCCTCGGCTCTTGTGGAGGAGTTTCTATTTCTACTTCCC TGCAAGGCCCTCAGGACATGGTTCACAGGACTGAACTAGAGTGTGATAGGGGCTTCAAGA TCATGAGTGTGGGGATGGGGCACCGGACAGACAAAAGTTTGAAGAAAAAACAGAACT TTGCCTGAAAAATCTGTCATTGCTCACAATACGGACNCGAAACACTTCGTCACCAAATA AAAGTTTCGGGCTAATCTACAGCTGGTTTGTCTGGCCCTTGATGTGTACGCTACCCCGCC GCACGCACCCATCAGCCCTCCCCCTTCCCTACCGGGCCCGCCAGCCACACCCACGCTTC CCCCCTATACGACTAACCCAGGCACAGCCTCAAATCCCCCTCGTCTGCACCCGTCACCGCC CTCATTGACCATATCCCCTAACGCCAGGACAAGTATTGATCCGACAAACCGGCACCTCGA GCCACACCCCCCTAACCGCACGACACATCCTGGGCNCGTGAAACACCCCAACACCGGGC CCCTGGCTAGTCTCGATTTAGTGCCACCCCGCCATCTCCATAGATTGTCTACTTCCACG CCTTCTTCCGGTACTTTACTTCGTTTCTCGTCACGGACTCAGAGACCT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_017596
<b>Insert Size:</b>	3890 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_017596.1](#), [NP\\_060066.1](#)

**RefSeq Size:** 9916 bp

**RefSeq ORF:** 762 bp

**Locus ID:** 23046

**UniProt ID:** [O75037](#)

**Cytogenetics:** 1q32.1

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a member of the kinesin superfamily. Kinesins are ATP-dependent microtubule-based motor proteins that are involved in the intracellular transport of membranous organelles. Single nucleotide polymorphisms in this gene are associated with inflammatory bowel disease and multiple sclerosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]  
Transcript Variant: This variant (2) lacks an exon in the coding region but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.