

Product datasheet for **SC117112**

KIF3B (NM_004798) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF3B (NM_004798) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF3B
Synonyms:	FLA8; HH0048; KLP-11; RP89
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_004798, the custom clone sequence may differ by one or more nucleotides

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ATGTCAAAGTTGAAAAGCTCAGAGTCAGTCAGGGTGGTGGTTCGCTGTCGGCCCATGAATGGCAAGGAAA
AGGCTGCTTCGTATGACAAAGTGGTGGATGTGGATGTTAAGCTGGGGCAGGTGTCTGTGAAGAACCCCAA
AGGGACGGCCCATGAAATGCCAAGACCTTCACCTTTGATGCCGTCTATGACTGGAATGCCAAGCAGTTT
GAACTGTACGATGAGACGTTCCGACCACCTTGTGACTCTGTCTGCAAGGTTTCAATGGAACCATTTTTG
CCTATGGACAAACTGGGACAGGAAAAACCTACACCATGGAAGGAATCCGTGGTGACCCTGAAAAAGAGG
AGTCATTCCCTAACTATTTGACCATATCTTACCCACATCTCTCGATCCCAGAATCAACAATACCTGGTC
AGGGCTTCTTACTTAGAGATCTACCAGGAGGAGATCCGAGATTTGCTCTCAAAGGATCAGACCAAAAGGC
TTGAGCTCAAAGAGAGGCCTGACACAGGAGTGTATGTGAAAGACCTGTCTTCTTTGTCACCAAGAGTGT
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GATATAGGGCAGAAAAACATTGTGCTGTTAGAGCTGGACATGCCAGCCGACCACCAAGAGACTATGAGGG
TCCAGCCATTGCCCCCAAGGTCCAGGCTGCATTGGATGCGGCTCTGCAGGATGAAGATGAGATACAGGTG
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GATCCTCCTCCTTCTCAGGAACCCCTGCATCTCAGCTTTATCCACAGTCTCGGGGGCTGTTCCAAA
GTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004798 unedited
 NNGGTGTCGNATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGGAATGG
 CTGAGCCAGGGGTTTCGCCGCCCCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCC
 CGCTTTCGGCTCGGGCTCAGGACCGTAGCATCCTGAGACATTTTGAATTGACACTTCTC
 AAGATTTGACTGGATCAGAGTTCATCATGTCAAAGTTGAAAAGCTCAGAGTCAGTCAGGG
 TGGTGGTTTCGCTGTCGGCCATGAATGGCAAGGAAAAGGCTGCTTCGTATGACAAAGTGG
 TGGATGTGGATGTTAAGCTGGGCGAGGTGTCTGTGAAGAACCCCAAGGGACGGCCCATG
 AAATGCCCAAGACCTTACCTTTGATGCCGTCTATGACTGGAATGCCAAGCAGTTTGAAC
 TGTACGATGAGACGTTCCGACCCTTGTGACTCTGTCCTGCAAGGTTTCAATGGAACCA
 TTTTTGCCTATGGACAACTGGGACAGGAAAACTACACCATGGAAGGAATCCGTGGT
 ACCCTGAAAAAGAGGAGTCATTCTAATCATTGACCATATCTTACCCACATCTCTC
 GATCCCAGAATCAACAATACCTGGTCAGGGCTTCTTACTTAGAGATCTACCAGGAGGAGA
 TCCGAGATTTGCTCTCAAAGGATCAGACCAAAAGGCTTGAGCTCAAAGAGAGGCCTGACA
 CAGGAGTGTATGTAAAGACCTGTCTTCTTTGTCACCAAGAGTGTGAAGGAGATAGAGC
 ATGTGATGAATGTGGGAACCCAGACCGTTCTGTGGTGTACCACATGNACGAGCACAGT
 TCGCGGTCTTATGCAATTTTCGTTATCACTATTGAGTGCACCGAGGTGGCCCTCCAGGT
 GAAAACCACTCCCGTGGGAAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004798 unedited
 TTAGCTTGCCCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTCTGGTTTTT
 TTTTTTTTTTTTTTTTTTTTGGAGGGGAGTCTACTCTGTCCACCAGGCTGGAATGCAG
 TAGTGTTATCTCGACTACTGCAACCTCCGCCTCCAGGTTCAAGGGATTCTCGTGCCTC
 AGCTCCCGAGTAGCTAGGACTAAAGGCATGCCCCACCACACCAGGCAAAATTTTGTATT
 TTTAGCACCGACGGCTTTCACCATGTTGGCCAGGCTGGTCTTGAAGTCCCAACCTCAGG
 TGGTCCCCCACCTCGGCCCCCCAAACCGCCGACTATCGGCTTGCCAAAAAATAAATC
 TACCCTTCCCCCGCTTATCCGTTAGACCCCCCCCCCGACTTTCCTCCCCGTCATC
 ATCCCGATCCGCTCCTCCACCCCGCCCCCATAATTCGTTCCGCCCCCCCCACAACC
 CTGCTGAGGCCCCCTCCCCCTCCCGTCCCCCCTCCCCCCCCCGTCCCCGCTCC
 CTCCCTTGATTTCCCGCCCGCCCCCCTTCTACCCCATATCCCCCATTCCATT
 CGCCCCCGCTCCCCCTGGCCGTTCCGCCCCCCCCCTCGTCGTTACCCCTACCCCCCC
 GCCTTTTCCACCCCTCCCGCCCTCGCCGCTTCTCCACCCTATTTTTTTTCAATTT
 CCCCCCGTTTCTTCCCCCCCCCATTGTCCCCATTTAATCTTTTTCCCCCCCCCGTC
 CTCCCCCCCCATCCTTCTTCTCCTCCCCCGCTCTATCCCCCGCCGCTTTTCGC
 CCACGCCGCCCGCCCGCTCACCCCTTTCCCGCCCCCCCCCCCCCGCATTCC
 TCTTTTCTCCATCTCTCCCCGCTCGCCGCATCTCCCCGCTTCCCCCCCCGCT
 T

Restriction Sites:

NotI-NotI

ACCN:

NM_004798

Insert Size:

5000 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_004798.2](#), [NP_004789.1](#)

RefSeq Size: 6103 bp

RefSeq ORF: 2244 bp

Locus ID: 9371

UniProt ID: [O15066](#)

Cytogenetics: 20q11.21

Domains: kinesin

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene acts as a heterodimer with kinesin family member 3A to aid in chromosome movement during mitosis and meiosis. The encoded protein is a plus end-directed microtubule motor and can interact with the SMC3 subunit of the cohesin complex. In addition, the encoded protein may be involved in the intracellular movement of membranous organelles. This protein and kinesin family member 3A form the kinesin II subfamily of the kinesin superfamily. [provided by RefSeq, Jul 2008]