OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC228631

Kif2c (NM_001290662) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif2c (NM_001290662) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kif2c
Synonyms:	4930402F02Rik; ESTM5; Knsl6; MCAK; X83316
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC228631 representing NM_001290662
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTGACATTGACGATGTGGCTGCAATAAACCCAGAGCTCCTACAGCTTCTTCCCTTACGACCGAAGG
ACAGTCTGCCACTGCAGGAAAACGTAACGGTCCCGAAGCAAAAACGCAAATCAGTCAACTCCAAAATTCC
AGCTCTAAAAGAAGGCCTTCGAAGCCGCTCCACTCGCATGTCCACTGTCTCAGAAGTTCGAATCCCTGCT
CAGGAGAATGAAATGGAGGTGGAGCTGCCTGTGCCTACAAACTCTCGCAAGCAGTTTGCCATTCCCAGCC
ACCCTCGGGCCTCCTGCTCCACAGTGACAGAATTGCCGTTGTTGATGGTCAGTGAGGAGGCAGAAGAGCA
AGCCCACTCCACCCGCAGTACCTCATCTGCAAACCCTGGGAACTCAGTTCGGAGGAAATCGTGTATCGTG
AAGGAGATGGAGAAAATGAAGAACAAGCGTGAAGAGAAGAGGGCCCAGAACTCGGAGCTAAGAATAAAGC
GAGCACAGGAATATGACAGCAGCTTTCCAAACTGGGAATTTGCCCGGATGATCAAAGAATTTCGGGTTAC
TATGGAATGTAGCCCGCTTACTGTGACAGACCCTATCGAAGAGCACAGGATCTGTGTCTGTGTCAGGAAA
CGCCCACTGAATAAACAAGAACTGGCCAAGAAAGAAATCGATGTGATTTCTGTTCCCAGCAAGTGTCTCC
TCCTGGTGCATGAACCCAAGTTAAAAGTGGACTTAACGAAGTACCTGGAGAACCAAGCTTTCTGCTTTGA
CTTTGCATTTGATGAGACAGCTTCCAATGAAGTTGTCTACAGGTTCACAGCAAGGCCACTGGTACAGACG
ATTTTTGAAGGGGGAAAAGCAACATGCTTTGCCTATGGACAGACAGGCAGTGGGAAGACACATACAATGG
GTGGAGATCTGTCTGGTAAAAGTCAGAACGCATCTAAAGGGATCTACGCCATGGCTTCCCGGGATGTCTT
CCTTCTGAAGAACCAGCCTCGGTACCGGAACTTAAACCTGGAAGTTTATGTGACATTCTTCGAGATCTAC
AATGGGAAGGTGTTTGATCTGCTCAACAAAAAGGCCAAGTTACGTGTGCTGGAGGACAGCAGGCAGCAGG
TGCAGGTTGTGGGACTGCAGGAGTACCTGGTCACCTGTGCTGATGATGTCATCAAGATGATCAACATGGG
CAGTGCCTGCAGGACTTCTGGACAAACATTTGCCAACTCCAATTCCTCCCGCTCCCACGCCTGCTTCCAG
ATTCTTCTTCGAACTAAAGGGAGATTACATGGCAAATTCTCTTTGGTGGATCTGGCAGGGAATGAACGAG
GGGCCGACACATCTAGTGCTGACCGGCAGACTCGCATGGAGGGAGCAGAAATTAACAAGTCTCTCCTGGC
TCTGAAGGAGTGCATCCGGGCGCTGGGACAGAACAAGGCTCACACCCCGTTCCGTGAGAGCAAGCTGACC
CAGGTGCTGAGGGACTCGTTCATTGGGGAGAACTCGAGGACCTGCATGATCGCCATGATCTCACCAGGCA
TAAGCTCCTGTGAATACACCTTAAACACGCTGAGATACGCAGACAGAGTCAAGGAGCTAAGCCCCCACAG
CGGACCCAGTGGAGAGCAGCCGGTTCAGATGGAAACAGAAGTGATGGAAGCCAGCTCTAATGGGACGTCT
CTGACTGGCAATGAAGAGGAGGAGCTGTCTTCCCAGATGTCCAGCTTTAATGAAGCCATGACTCAGATCA
GGGAGCTGGAAGAGAGGGCCCTGGAAGAGCTCAGAGAGATCATACAGCAAGGACCAAACTGGCTTGAGCT
CTCCGAGATGACAGATCAGCCAGACTATGACTTGGAGACCTTTGTGAACAAAGCAGAATCTGCCCTGACA
CAGCAGGCTAAGCAGGCGAAGCACTTCTCAGCCCTTCGAGAAGTCATCAAGGCCCTGCGCCTAGCCATGC
AACTGGAAGAACAGGCTAGCAAACAAATAAACAGCAAGAAACGGCACCAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001290662

Insert Size: 2013 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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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_001290662.1, NP_001277591.1
RefSeq Size:	2792 bp
RefSeq ORF:	2013 bp
Locus ID:	73804
Cytogenetics:	4 53.42 cM
Gene Summary:	In complex with KIF18B, constitutes the major microtubule plus-end depolymerizing activity in mitotic cells (PubMed:14980225). Regulates the turnover of microtubules at the kinetochore and functions in chromosome segregation during mitosis. Plays a role in chromosome congression and is required for the lateral to end-on conversion of the chromosome-microtubule attachment (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. It encodes isoform 2, which has a shorter and distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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