

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATTGACATTGACGATGTGGCTGCAATAAACCCAGAGCTCCTACAGCTTCTTCCCTTACGACCGAAGG
 ACAGTCTGCCACTGCAGGAAAACGTAACGGTCCGGAAGCAAAAACGCAAAATCAGTCAACTCCAAAATTC
 AGCTCTAAAAGAAGGCCTTCGAAGCCGCTCCACTCGCATGTCCACTGTCTCAGAAGTTCGAATCCCTGT
 CAGGAGAAATGAAATGGAGGTGGAGCTGCCTGTGCCTACAACTCTCGCAAGCAGTTTGCCATTCCCAGCC
 ACCCTCGGGCCTCCTGCTCCACAGTGACAGAATTGCCGTTGTTGATGGTCAGTGAGGAGGAGAAGAGCA
 AGCCCACTCCACCCGAGTACCTCATCTGCAAACCTGGGAAGTTCAGTTCGGAGGAAATCGTGTATCGTG
 AAGGAGATGGAGAAAATGAAGAACAAGCGTGAAGAGAAGAGGGCCAGAAGTTCGGAGCTAAGAATAAAGC
 GAGCACAGGAATATGACAGCAGCTTCCAACTGGGAATTTGCCCGGATGATCAAAGAATTCGGGTTAC
 TATGGAATGTAGCCCGTACTGTGACAGACCCTATCGAAGAGCACAGGATCTGTGTCTGTGTGTCAGGAAA
 CGCCCACTGAATAACAAGAAGTGGCCAAGAAAGAAATCGATGTGATTTCTGTTCCAGCAAGTGTCTCC
 TCTGGTGCATGAACCAAGTAAAAGTGGACTTAACGAAGTACCTGGAGAACCAAGCTTCTGCTTTGA
 CTTTGCATTTGATGAGACAGCTTCCAATGAAGTTGTCTACAGGTTACAGCAAGGCCACTGGTACAGACG
 ATTTTTGAAGGGGAAAAGCAACATGCTTTGCCTATGGACAGACAGGCAGTGGGAAGACACATACAATGG
 GTGGAGATCTGTCTGGTAAAAGTCAAGCAGCATCTAAAGGGATCTACGCCATGGCTTCCCGGGATGTCTT
 CCTTCTGAAGAACCAGCCTCGGTACCGGAACCTAAACCTGGAAGTTTATGTGACATCTTCGAGATCTAC
 AATGGGAAGGTGTTTGTCTGCTCAACAAAAGGCCAAGTTACGTGTGCTGGAGGACAGCAGGCAGCAGG
 TGCAGTTGTGGACTGCAGGAGTACCTGGTACCTGTGCTGATGATGTCATCAAGATGATCAACATGGG
 CAGTGCCTGCAGGACTTCTGGACAACATTTGCCAACTCCAATTCCTCCGCTCCACGCCTGCTCCAG
 ATCTTCTTGAAGTAAAGGGAGATTACATGGCAAATCTCTTTGGTGGATCTGGCAGGGAATGAACGAG
 GGGCCGACACATCTAGTCTGACCGGCAGACTCGCATGGAGGGAGCAGAAATTAACAAGTCTCTCTGGC
 TCTGAAGGAGTGCATCCGGGCGCTGGGACAGAACAAGGCTCACACCCCGTTCCTGAGAGCAAGCTGACC
 CAGGTGCTGAGGGACTCGTTCATTGGGGAGAAGTTCGAGGACCTGCATGATCGCCATGATCTACCAGGCA
 TAAGTCTCTGTGAATACACCTTAAACACGCTGAGATACGCAGACAGAGTCAAGGAGCTAAGCCCCACAG
 CGGACCCAGTGGAGAGCAGCCGTTTCCAGATGGAACAGAAAGTATGGAAGCCAGCTCTAATGGGACGTCT
 CTGACTGGCAATGAAGAGGAGGAGCTGTCTTCCAGATGTCCAGCTTTAATGAAGCCATGACTCAGATCA
 GGGAGCTGGAAGAGAGGGCCCTGGAAGAGCTCAGAGAGATCATACAGCAAGGACCAAACTGGCTTGAGCT
 CTCCGAGATGACAGATACGCCAGACTATGACTTGGAGACCTTTGTGAACAAGCAGAAATCTGCCCTGACA
 CAGCAGGCTAAGCAGGCGAAGCACTTCTCAGCCCTTCGAGAAGTCAAGGCCCCTGCGCCTAGCCATGC
 AACTGGAAGAACAGGCTAGCAAACAAATAAACAGCAAGAAACGGCACCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 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.

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:	<ol style="list-style-type: none">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:	<u>NM_001290662.1</u> , <u>NP_001277591.1</u>
RefSeq Size:	2792 bp
RefSeq ORF:	2013 bp
Locus ID:	73804
Cytogenetics:	4 53.42 cM
Gene Summary:	<p>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]</p> <p>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.</p>