

## Product datasheet for **MC203744**

### **Kif2c (NM\_134471) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kif2c (NM_134471) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kif2c
Synonyms:	4930402F02Rik; ESTM5; Knsl6; MCAK; X83316
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC006841  
 GCGGTTTAGGCGTTGTTAACACAGCGCAGTATTAGCAGAGTCGTGGTTTTCCAAGCTTCTTTCATTTGTGT  
 TGCCTGTTGTTGTTCTGAGTCCATGGAGTCGCTTACGCACGCCTGTTTCTGGTCTCTCCATCAACAT  
 TCAACGCAGCAATGGCTTAATTCACCCCGCAATATAAGCACAGTGAACGTGGAGAAATCTGTGTTTCG  
 GTGGAATGGATCGAAGGAGGTACCACAAAAGGCAAAGAGATTGACATTGACGATGTGGTGAATAAAC  
 CAGAGCTCTACAGCTTCTTCCCTTACGACCGAAGGACAGTCTGCCACTGCAGGAAAACGTAACGGTCCC  
 GAAGCAAAAACGCAAATCAGTCAACTCCAAAATCCAGCTCTAAAAGAAGGCCTTCGAAGCCGCTCCACT  
 CGCATGTCCACTGTCTCAGAAGTTCGAATCCCTGCTCAGGAGAATGAAATGGAGGTGGAGCTGCCTGTGC  
 CTACAAACTCTCGCAAGCAGTTTGCCATTCCCAGCCACCCTCGGGCCTCTGCTCCACAGTGACAGAATT  
 GCCGTTGTTGATGGTCAGTGAGGAGGCAGAAGAGCAAGCCACTCCACCCGCAGTACCTCATCTGCAAAAC  
 CCTGGGAACTCAGTTCGGAGGAAATCGTGTATCGTGAAGGAGATGGAGAAAATGAAGAACAAGCGTGAAG  
 AGAAGAGGGCCAGAACTCGGAGCTAAGAATAAAGCGAGCACAGGAATATGACAGCAGCTTTCAAAACG  
 GGAATTTGCCCGATGATCAAAGAATTTCCGGTACTATGGAATGTAGCCCGCTTACTGTGACAGACCTT  
 ATCGAAGAGCACAGGATCTGTGCTGTGTGTCAGGAAACGCCACTGAATAAACAAGAACTGGCCAAGAAAG  
 AAATCGATGTGATTTCTGTTCCAGCAAGTGTCTCCTCCTGGTGCATGAACCCAAGTTAAAAGTGGACTT  
 AACGAAGTACCTGGAGAACAAGCTTTCTGCTTTGACTTTGCATTTGATGAGACAGCTTCCAATGAAGTT  
 GTCTACAGGTTACAGCAAGGCCACTGGTACAGACGATTTTTGAAGGGGAAAAGCAACATGCTTTGCTT  
 ATGGACAGACAGGCAGTGGGAAGACACATAACAATGGGTGGAGATCTGTCTGGTAAAAGTCAGAACGCATC  
 TAAAGGGATCTACGCCATGGCTTCCCGGATGTCTTCTTCTGAAGAACCAGCCTCGGTACCCGAACTTA  
 AACCTGGAAGTTTATGTGACATTTCTCGAGATCTACAATGGGAAGGTGTTTGATCTGCTCAACAAAAGG  
 CCAAGTTACGTGTGCTGGAGGACAGCAGGCAGCAGGTGCAGGTTGTGGGACTGCAGGAGTACCTGGTCAC  
 CTGTGCTGATGATGTCATCAAGATGATCAACATGGGCAGTGCCTGCAGGACTTCTGGACAACATTTGCC  
 AACTCCAATTCCTCCCGCTCCCAGCCTGCTTCCAGATTCTTCTTGAAGTAAAGGGAGATTACATGGCA  
 AATTCTCTTTGGTGGATCTGGCAGGGAATGAACGAGGGGCCGACACATCTAGTGTGACCCGAGACTCG  
 CATGGAGGGAGCAGAAATTAACAAGTCTCTCCTGGCTCTGAAGGAGTGCATCCGGGCGCTGGGACAGAAC  
 AAGGCTCACACCCGTTCCGTGAGAGCAAGCTGACCCAGGTGCTGAGGGACTCGTTCATTGGGGAGAACT  
 CGAGGACCTGCATGATCGCCATGATCTCACCAGGCATAAGCTCCTGTGAATACACCTTAAACACGCTGAG  
 ATACGCAGACAGAGTCAAGGAGCTAAGCCCCACAGCGGACCCAGTGGAGAGCAGCCGTTTCCAGTGGAA  
 ACAGAAGTGAAGGAGCCAGCTAATGGGACGTCTCTGACTGGCAATGAAGAGGAGGAGCTGTCTTCCC  
 AGATGTCCAGCTTAATGAAGCCATGACTCAGATCAGGGAGCTGGAAGAGAGGGCCCTGGAAGAGCTCAG  
 AGAGATCATAAGCAAGGACAAACTGGCTTGGCTCTCCGAGATGACAGATCAGCCAGACTATGACTTG  
 GAGACCTTTGTGAACAAAGCAGAATCTGCCTGACACAGCAGGCTAAGCAGGCGAAGCACTTCTCAGCCC  
 TTTCGAGAAGTCATCAAGGCCCTGCGCTAGCCATGCAACTGGAAGAACAGGCTAGCAAAACAAATAAACAG  
 CAAGAAACGGCACCAATGATGACTTCAAATAAAGATCTGTTTATCAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_134471

**Insert Size:** 2166 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:** [BC006841](#), [AAH06841](#)

**RefSeq Size:** 2325 bp

**RefSeq ORF:** 2166 bp

**Locus ID:** 73804

**UniProt ID:** [Q922S8](#)

**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 (1) represents the longer transcript and encodes the longer isoform (1).