

## Product datasheet for **MR210881**

### **Kif18b (NM\_197959) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kif18b (NM_197959) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kif18b
Synonyms:	3000004C01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>MR210881 representing NM\_197959  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGATGGCTGTGGAAGACAGCGTGGTTCGGGTGGTCGTGCGGGTGGAGCCTCCACCCCTAAGGAGC  
 TAGAGAGTCAGCGCGGCCCTGTGATTACAGTGGTAGACGAGCGGATGCTGGTATTTGACCCCGAGGAGTG  
 TGATGGGGGATTTCTTGCCCTAAAATGGAGTGGTCCCAATGGCCCAAGAAGAAGGGCAAAGACCTG  
 ACATTTGTCTTTGACCGTGTCTTTGGTGGAGATGGCCACTCAGGAGGATGTGTTCCAGCACACCACACACA  
 ACATCCTCGACAGCTTTCTCAGGGCTACAACCTGCTCAGTGTTCCTATGGCGCCACCGGGGCTGGGAA  
 GACACACACTATGCTGGGGAGGGAGGGAGGCCCGCATCATGTACCTGACCACCATGGAAGTGTACAGG  
 CGTCTGGAAGCCCGCAGGAAGAAAAGCAATTCGAGGTGCTCATCAGTTACCTGGAGGTGTACAATGAGC  
 AGATCCATGACCTCCTGGAGCCAAAGGACCCCTCACCATCCGTGAGGACCCAGATAAGGGTGTGTGGT  
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 AGCCGCACACAGACCCACGGATGCCAACGCCACATCCTCCCGTCTCATGCCATTTTCCAGATCTTTG  
 TGAAGCAGCAGGACCGGGTTCAGGACTGACCCAGGCCCTTCGAGTAGCCAAGATGAGCTTGATTGACCT  
 GGCTGGCTCCGAGCGGGCATCCAGCACCATGCCAAAGGAGAGCGGCTGCGGGAGGGTGCCAACATCAAC  
 CGCTCTCTGTTAGCACTATTAATGTCCTCAATGCCCTGGCTGATGCAAAGGGCCGAAGTCTCAGTAC  
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 TGCTGCCATCAGCCCTCCAGCCTGACCTACGAGGATACTTACAACCCCTCAAATATGCTGACCGTGCC  
 AAGGAGATCAGACTCACGCTGAAGAGCAATGTGATCAGCGTGGACCATCACATTAGCCAATATGCCACCA  
 TCTGCCAGCAGCTCCAGGCTGAGGTAGCCTTCTGAGGGAGAACTCCAGATGTATGAGGCTGGAGCCCA  
 GGCCTGCAACAGCAGTGTCTCCACAGCCTCCACGTTGAGCATTCCACAAAGCCTTTCTAGCTCCTCG  
 TTACAGCCTGGGCCCTCCAGCCAGTCTCTACCCTAGAGTGCCATGCAAAGAATGAAACTCTTCAAGAGG  
 AGAGCCTGGGATCAGACGCCAGGGACAGGAGATTGTGGAAGAAAGTGTTCAGAGCAGGAGCAGTGTCC  
 CCAGGACAAACAGTGTCCAACCCAGAAGCCAGAGCCGAACCTGCCCGGGTCCCCTAGTCCAAGTGTACAG  
 GCAAAGCCAGGCACGGGCCAACACTCACACAGAAACAGGATGCGGACCACTCCAACAGTTGGCCCTCC  
 AGGTGCTCCGCTGGCCAGCGACAATACTCCCTGCTGCAGGCAGCCAACTCCTGACTCCTGACATGAT  
 CTCAGAGTTTGGACCCTGCAGCAACTAGTCTCGAGGAAAGCGTTGACCACAGGGCTGAGAGCCCCAGG  
 TCTCCTGCTCTGGCCAGAGGGGACCCACTAGCTCAGGCGCTGTGTTCCGAGTCTAAGTCTCAGGGTACT  
 GTGGTCCAGTGACCAGGACCATGGCAAAGCAACTGAATGGTCTCACACACTCTGGGGGCCCACTCGC  
 ACCTGACTGCACCTCAGATAAGACATTCAAAAGCCTACCAAGGAGAAAGAAAGGAGCTGACCCCGAA  
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 GAAGGGGCTCTCTACCTAAGGCCAGCCGTGCTCTGAGCCGAGAACTCCAAAAGAGAGAGGGCCTCTTC  
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 AGTCCCCCTCAAACCCAGCTTCCAGGAATTTGTTGACTGGGAAAAAGTTTCCCCGAGCTGAACAGTAC  
 CGACCAGCCCTTTCTCCCAGCGCACCTGTCTTCAATTCACGAAGGGCCGCAAGCCTTCGCTTCCCTGCA  
 GTCAGTCCAGCAAGAAGAGGCGTACTATGAGGCCCTCAGTCTCCGAGGCCGACGCTGTATTGCCCGTC  
 TCCACAGTAGCACCTGAAGAAGCCAAACAGACCTTCACTGTCCAGAGCCACCCTTGAGCCCCACTG  
 CCTTGATGACCAGAGGACTCCTAAAGGACTGACTGGGGTACAGAGTCTTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210881 representing NM\_197959  
Red=Cloning site Green=Tags(s)

MVMAVEDSVVVRVVRPPTPKELESQRRPVIQVVDERMLVFDPEECDGGFPGLKWSGSHNGPKKKGKDL  
TFVFDVRFGEMATQEDVFQHTTHNILD SFLQGYNC SVFAYGATGAGKTHMLGREGEPGIMYLTMMEL YR  
RLEARQEEKQFEVLISYLEVYNEQIHDLLEPKGPLTIREDPDKGVVVPGLSFHQPASAEQLLEMLTRGNC  
SRTQHPTDANATSSRSHAFQIFVKQQDRVPGLTQALRVAKMSLIDLAGSERASSTHAKGERLREGANIN  
RSL LALINVLNALADAKGRKSHVPYRDSKLRLLKDSIGGNCRTVMIAAISPSSTLYEDTYNTLKYADRA  
KEIRLTLKSNVISVDHHISQYATICQQLQAEVAFLREKLQMYEAGA QALQQCSPQPPTLSIPQSLSSSS  
LQPGPSSQSSTLECHAKNETLQEE SLGSDAQQQEIVEESASEQECPQDKQCPTQKPEPNLPGSPSPSVQ  
AKPGTGQHSPQKQDADHSKQLALQVLR LAQRQYSLLQAANLLTPDMI SEFETLQQLVLEESVDHRAESPR  
SPALARGDPLA QALCSESKSSGYCGPVTRTMAKQLNGLTHTLGAPLAPDCTSDKTFQKPTKEKKRKLTP E  
EPGSLPAPNLEMKRQSQSFLPCLRRGSLPKAQPCSEPRTPKRERASSPSPSSRVCPATVIKSRVPLGPSA  
LQNCSTPLALPTRDLNTTFNVSEESPSKPSFQEFVDWEKVSPELNSTDQPF LPSAPVVFIFTKGRKPSLPA  
VTASKKRRTMRPSVSRGRSC IARLHSSTLKKPNRPFTVPEPPLSPHCLDDQRTPKGLTGVTESY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9039\\_g08.zip](https://cdn.origene.com/chromatograms/mm9039_g08.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_197959

**ORF Size:** 2502 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_197959.2](#), [NP\\_932063.2](#)

**RefSeq Size:** 3345 bp

**RefSeq ORF:** 2505 bp

**Locus ID:** 70218

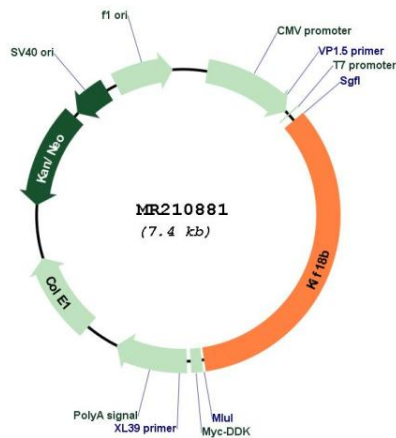
**UniProt ID:** [Q6PFD6](#)

**Cytogenetics:** 11 E1

**MW:** 92.4 kDa

**Gene Summary:** In complex with KIF2C, constitutes the major microtubule plus-end depolymerizing activity in mitotic cells. Its major role may be to transport KIF2C and/or MAPRE1 along microtubules (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR210881