

## Product datasheet for **MR211060**

### **Kif18a (NM\_139303) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kif18a (NM_139303) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kif18a
Synonyms:	AU024633; B130001M12Rik; gcd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR211060 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCGCACTGAAGAAGACTTATGTCACCCGATGAAAGTAGTTGTCCGTGTACGTCCTGAGAACACAA  
 AAGAAAAGCGGTGCAGTTCTGTAAAGTGGTTCATGTAGTGGATAAACATATACTCAGTTTTGATCCGAA  
 ACAAGAAGAAATCAGTTTTTTTACAGAAAAGAAAACACAAATTTTATATTACTAAAAGGCAAAAATAAA  
 GATCTGAAGTTTGTATTTGATGCTGCTTTGATGAAACTTCAACTCAAATGGAAGTTTTTGAACACACAA  
 CCAAGCCAATCCTTCATAGTTTTCTGAATGGATACAATTGCACAGTATTTGCATATGGTGCCACTGGATC  
 TGGGAAAACACACAATGCTAGGATCAGCTGCTGAACCTGGGGTGTACCTGACAATGCTGGACCTT  
 TTCAAATGCATCGATGAGATTAAGAAGAGAAAGAGTGTAGCACTGCCGTGCATACCTGGAGGTATATA  
 ATGAACAGATCCGTGACCTCTTGACAAAACAGGACCCTTGGCTGTCGGGAAGATCCCAAAAAGGAGT  
 GGTGTTCCAGGGTCTTACTCTACACCAGCTAAATCTTCAGAGGAAATATTACAGCTACTAGACAATGGA  
 AACAAAAACAGGACCCAGCATCCCACTGACGTGAATGCAGTGTCTTCTCGTTCCCATGCTTTTTCCAGA  
 TTTATTTGCGACAACAAGACAAAACAGCGAGCATCAATCAAAATGTCCGTATAGCCAAAATGTCACCTCAT  
 CGACCTCGCAGGATCTGAGAGGGCCAGTGTTCGGGTGCTAAAGGGTACAGATTTGTAGAAGGCACAAAAT  
 ATTAACAAATCTCTTTAGCTCTTGGGAATGTCATCAATGCCTTAGCAAAACAAAAGAGAAGAAATCAGC  
 ATATTCCTTACAGAAATAGTAAGCTTACTCGTTTGTGTAAGGATTCTCTTGGAGGAAACTGTCAAATAT  
 AATGATAGCTGCTGTAGTCTTCTCTTTATTTATGATGACACATAAACACTCTTAAGTATGCTAAT  
 CGTGCAAAGGAAATTAATCTTCTTTGAAGAGCAATGTTCTTAATCTCAACAGTCACATATCTCAGTATG  
 TAAAGATGTAAATATGCAGAAAAGCAGAGATTTAATGTTGAAAGAAAACAAAGGCCTATGAAGAACA  
 GAAAGCCCTGTCTGACAGAAATGACTGTCTAAATTAGTACATTCAAACCCAGAAGACAGAGAAACTGAA  
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 AAATGTTACTTAAGGCAATGCGCTAAAGTCACTCTATCACCAACAGTGCATATAACAGATAGAGATGAT  
 GTGTTCTGAAGACAAAGTGGAAAAGGCCACTTGCAAAACGAGATCACAGACTTGAAAAGTTGAAAACCAAC  
 AGCTGTTTTCTAGAGAAAAGAAAGAAGAGGTGTGAAACAATTTGATGAAAATACTAATTTGGCTACATC  
 GTGTTGAAAACGAAATGCGACTCTTGGGTCAAATGGTGATATCCAGAGGCACTCAATAAAGAGCTTCA  
 CTGTCACCATTTACACCTCCAGAACAAAGAACTGAAAACACAAAATGGCACACATGACAGCTCTAGCTTGT  
 CTCAGGAACAGCAGCACAAAGCAAACTGAGGCAGTATTGAATGCTTTGCTTCCAGTACTAAGAAAACAGT  
 ATTGAAAATTGAAAGAACTGGCCTGTCAAATGCTGCTTTTGATTCTGACTTCAAAGATATTGAACATTT  
 AGTAGAGAGAAAAAGGTGGTGGCTTGGGCTGACCAAACTAATGAACATTCAAACCGAAATGATCTTCCA  
 GGGATTTCTCTTCTATGACCTTCCCACAGCTTGAACCAATTCAGTCTATTTCTTGTGACATCTGTGA  
 GTGATCCTAACGTGCTTAACTTACTCCACAACGAAGAACCAGAAGAAAATAATTCCTTCTCCCTTGAA  
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 CAGCCTATTGTTTATACGCCAGAGGACTGCAAAAAGCTCAAGACCTGTTTCCATCCTTAACGAGAACTT  
 CATCGCAGTCTGCAAATGTAATGAATGACAATCCAGAAAGCACTGTGTAGAATAGAGTCTCCTCTCAG  
 CAGAACTGAGTGCAAACAGGGTTTGTACTCTACATCTACTGTGTGATAGCATCAGAGGCTTGAAGAAT  
 AAATGGCCTGAACAAGAACCCTAGCAAGCAGCAAAAAGCAGTGTGCACAGGATAGAGTCTTCTTCAATTT  
 CAACAAAGGATTCTATGCCTGAATCAGCAGGTGTGCCGTCTACATGGCAATGACTACTGCTGCAAGAG  
 GAAATGGAACAAATGAGTTCTACATCAAATGCTTCAATCAAATCTGATGAAAGTTGTGGATTTGCCAAA  
 CGCATTGACGGGATAATTCAAGCGTTAAGCCTATGCAAGAAAACAGACTGAAAGTGGGCTATAAAAAGAA  
 ATACCAACAAAACAAATCAAACATGCTTAGAAAAATTTAGAAGAAACACTTCAAAGAAAATGTACAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211060 protein sequence  
 Red=Cloning site Green=Tags(s)

MSGTEEDLCHRMKVVVVRPENTKEKAVQFCVVHVVDKHLISFDPKQEEISFFHRKKTTFDITKRQNK  
 DLKFVFDVAVFDETSQMEVFEHTTKPILHSFLNGYNCTVFAYGATGSGKTHTMLGSAEPGMYLTMLDL  
 FKCIDIEIKKEECSTAVSYLEVYNEQIRDLLTNSGPLAVREDSQKGVVVQGLTLHQPKSSEEILQLLDNG  
 NKNRTQHPTDVNAVSSRSHAVFQIYLRQQDKTASINQNVRIAKMSLIDLAGSERASVSGAKGSRFVEGTN  
 INKSLALGNVINALANTKRRNQHIPYRNSKLTRLLKDSLGGNCQTIMIAAVSPSSLFYDDTYNTLKYAN  
 RAKEIKSSLKSNVNLNLSHISQYVKICNMQKAEILMLKEKLKAYEEQKALSDRNDCAKLVHNSPEDRETE  
 RFQEILNCLFQNREGIRQEYLKLEMLLKANALKSSYHQCHKQIEMMCSEDKVEKATCKRDHRLEKLKTN  
 SCFLEKKKEEVSKQFDENTNWLHRVENEMRLLGQNGDIPEALNKLHCHHLHLQNKELKTQMAHMTALAC  
 LQEQQHKQTEAVLNALLPVLRKQYWKLETKLSNAAFDSDFKDIEHLVERKKVVAWADQNEHSNRNDLP  
 GISLLMTFPQLEPIQISICTSVSDPNVLKLTQRRTRRKIIPSPLKVQHTQKSALSESTQLNDSF SKEL  
 QPIVYTPEDCKKAQDLFPSL TRTSSQSANVMNDNSQKALCRIE SPLSRTECKQGLYSTL CDSIRGLKN  
 KWPEQEPLASSKSSVHRIESSSFSTKDSMPESAGVPSYAMATTAARKRWKQMSSTSNASIKSDESCGFAK  
 RIRRDNSSVKPMQENRLKVGYKRNTNKTNSNMLRKFRRNTSKENVQ

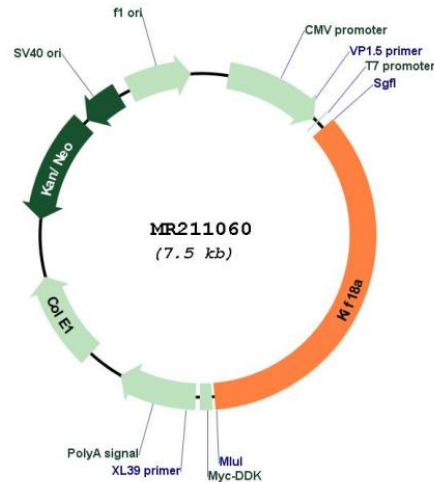
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_139303

**ORF Size:** 2661 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\\_139303.1](#), [NP\\_647464.1](#)

**RefSeq Size:** 3487 bp

**RefSeq ORF:** 2661 bp

**Locus ID:** 228421

**UniProt ID:** [Q91WD7](#)

**Cytogenetics:** 2 E3

**MW:** 100.9 kDa

**Gene Summary:** Microtubule-depolymerizing kinesin which plays a role in chromosome congression by reducing the amplitude of preanaphase oscillations and slowing poleward movement during anaphase, thus suppressing chromosome movements. May stabilize the CENPE-BUB1B complex at the kinetochores during early mitosis and maintains CENPE levels at kinetochores during chromosome congression (By similarity).[UniProtKB/Swiss-Prot Function]