

## Product datasheet for **MC220570**

### **Kif3a (NM\_008443) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kif3a (NM_008443) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kif3a
Synonyms:	Kif3; Kifl; Kns3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_008443, the custom clone sequence may differ by one or more nucleotides

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ATGCCGATCAATAAGTCGGAGAAGCCGAAAGCTGCGATAATGTGAAGGTGGTGGTTAGGTGCCGGCCTC
TCAATGAGAGAGAGAAGTCAATGTGCTATAGACAGGCCGTCAGCGTGGATGAAATGAGGGAACTATCAC
CGTCCATAAGACCGATTCTCCAACGAACCTCCAAGACATTTACTTTTCGATACTGTTTTGGACCAGAA
AGTAAACAACTTGATGTGTATAACTTAACTGCAAGACCAATTATTGATTCTGTTCTGGAAGGCTACAATG
GGACCATCTTTCATATGGACAGACTGGGACAGGCAAGACTTTCACCATGGAAGGCGTTCGAGCAGTACC
GGGGCTCAGAGGGGTTCATCCCAACTCATTGCTCACATATTTGGTCACATCGCAAAAGCAGAGGGCGAC
ACAAGTTTTTGGTTTCGAGTGTACTTGGAGATATATAATGAAGAAGTTCGAGACCTTTTGGTAAAG
ATCAGACCCAGAGGTTAGAGGTTAAAGAAAGCCCTGATGTGGGAGTATATCAAAGACTTATCAGCATA
TGTAGTCAACAACGCTGACGACATGGATAGAATCATGACTCTAGGCCACAAAACCGTTCTGTGGTGCG
ACTAATATGAACGAGCACAGCTCCCGATCCACGCCATCTTACAATTACTATAGAGTGCAGTGAGAAAG
GCGTGGACGGGAACATGCACGTCAGGATGGGCAAGCTCCACCTTGTGGATCTGGTGGGTGAGAAAGACA
AGCAAAAACCTGGAGCCACAGGACAGCGCTCAAGGAAGCTACCAAAATCAACCTTTCATTGTCTACCTG
GGCAACGTTATTTCTGCCTTGGTGGATGGAAAAAGCACTCACGTGCCGTATCGGAACTCCAACTGACCC
GTCTCTCGAGGACTCCTTAGGAGGAACTCAAAAACCATGATGTGTGCAAAATTTGGGCCAGCAGATTA
TAATTATGATGAAACTATCAGCACCTTGCGGTATGCCAACCGCGCAAGAACATTAACAAAGCGAGA
ATCAATGAGGACCCAAAGGATGCTCTGCTCCGCCAGTTTCAGAAAGAAATCGAAGAGCTGAAGAAAAAGC
TTGAGGAAGGGGAAGAAGTGTGAGGCTCTGACATCAGTGGGTGAGAGGAGGATGACGAGGAGGGTGAAC
TGGAGAAGATGGAGAAAAAAGAAAAAGAGAAGGACCAAGCAGGTAAAAAGAAAGTTTCCCAGATAAG
ATGGTGGAAATGCAAGCGAAAAATGACGAGGAGAGAAAAAGCACTGGAAACCAACTTGACATGGAAGAAG
AAGAAAGAAACAAGGCTAGAGCTGAAGCTAGAGAGACGGGAGAAGGACCTTCTGAAAGCCCAACAAGAGCA
TCAGTCTTTGCTGGAAGGCTGTCTGCTTTGGAAGAAGGTCATTGTGCGCGGCGTGGACCTGCTGGCC
AAGGCTGAGGAGCAAGAGAAGCTTCTGGAGGAGTCCAACATGGAGCTGGAGGAGAGGAGGAGACGAGCTG
AGCAGCTTCGAAAGAGCTGGAGGAAAAGGAGCAAGAAGCTTGGACATCGAGGAAAAATATACCAGTCT
GCAAGAGGAGGCACAAGGAAAGACCAAGAAATTAAGAAAGTCTGGACCATGCTGATGGCTGCAAGTCA
GAGATGGCTGATCTCCAGCAGGAGCATCAGAGGGAGATCGAAGGCCTCCTGGAGAACATCCGGCAGCTCA
GCCGGGAGCTCCGTCTTCAGATGCTCATCATTGATAAATTCATACCTCAGGATTACCAGGAAATGATTGA
AACTACGTCCACTGGAATGAAGACATAGGAGAATGGCAGCTAAAATGTGTGGCTACACAGGAAATAAC
ATGAGGAAACAACTCCAGTCCCTGACAAGAAGGAGAGACCCATTTGAAGTCGACCTTTCCACAGTGT
ACCTCGCTATACAGAGGAGAGTCTGCGTCAGTCTCTGATGAAGTTAGAAAGGCCACGGACCTCCAAGGG
GAAAGCAAGGCCAAAGATGGGGCGAAGAAAGCGTTCTGCAAAAGCCTGAGACCGTAATTGATTCTTTACTT
CAGTAA
    
```

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2070\\_a05.zip](https://cdn.origene.com/chromatograms/ja2070_a05.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_008443

**Insert Size:** 2106 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_008443.3](#), [NP\\_032469.2](#)

**RefSeq Size:** 5438 bp

**RefSeq ORF:** 2106 bp

**Locus ID:** 16568

**UniProt ID:** [P28741](#)

**Cytogenetics:** 11 31.97 cM

**Gene Summary:** Microtubule-based anterograde translocator for membranous organelles. Plus end-directed microtubule sliding activity in vitro. Plays a role in primary cilia formation (PubMed:21670265). Plays a role in centriole cohesion and subdistal appendage organization and function. Regulates the formation of the subdistal appendage via recruitment of DCTN1 to the centriole. Also required for ciliary basal feet formation and microtubule anchoring to mother centriole (PubMed:23386061).[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).