

Product datasheet for **MC228698**

Kif3a (NM_001290806) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Kif3a (NM_001290806) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Kif3a |
| Synonyms: | Kif3; Kifl; Kns3 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC228698 representing NM_001290806
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGATCAATAAGTCGGAGAAGCCGAAAGCTGCGATAATGTGAAGGTGGTGGTTAGGTGCCGCCTC
 TCAATGAGAGAGAGAAGTCAATGTGCTATAGACAGGCCGTCAGCGTGGATGAAATGAGGGAACTATCAC
 CGTCCATAAGACCGATTCTCCAACGAACCTCCAAGACATTTACTTTTCGATACTGTTTTGGACCAGAA
 AGTAAACAACCTTGATGTGTATACTTAACTGCAAGACCAATTATTGATTCTGTTCTGGAAGGCTACAATG
 GGACCATCTTTGCATATGGACAGACTGGGACAGGCAAGACTTTCACCATGGAAGGCGTTCGAGCAGTACC
 GGGGCTCAGAGGGGTATCCCAACTCATTGCTCACATATTTGGTCACATCGCAAAAGCAGAGGGCGAC
 ACAAGGTTTTGGTTCGAGTGCATACTTGGAGATATATAATGAAGAAGTTCGAGACCTTTGGGTAAAG
 ATCAGACCCAGAGGTTAGAGGTTAAAGAAAGCCCTGATGTGGGAGTATATATCAAAGACTTATCAGCATA
 TGTAGTCAACAACGCTGACGACATGGATAGAATCATGACTCTAGGCCACAAAACCGTTCTGTCGGTGCG
 ACTAATATGAACGAGCAGCTCCCGATCCCACGCCATCTTTACAATTACTATAGAGTGCAGTGAGAAAG
 GCGTGGACGGGAACATGCACGTCAGGATGGGCAAGCTCCACCTTGTGGATCTGGCTGGGTGAGAAAGACA
 AGCAAAAAGTGGAGCCACAGGACAGCGCCTCAAGGAAGCTACAAAATCAACCTTTCATTGTCTACCCTG
 GGCAACGTTATTTCTGCCTTGGTGGATGGAAAAAGCACTCACGTGCCGTATCGGAACTCCAACTGACCC
 GTCTCTCGAGGACTCCTTAGGAGGGAACCAAAAACCATGATGTGTGCAAAATATGGGCCAGCAGATTA
 TAATATGATGAAACTATCAGCACCTTGGCGGTATGCCAACCGCCAAGAACATTAAGAAAGCGGAGA
 ATCAATGAGGACCAAGGATGCTCTGCTCCGCCAGTTTCAGAAAGAAATCGAAGAGCTGAAGAAAAAGC
 TTGAGGAAGGGGAAGAAGTGTGAGGCTCTGACATCAGTGGGTGAGAGGAGGATGACGAGGAGGTTGAAT
 TGGAGAAGATGGAGAAAAAAGAAAAAGAGAAGGACCAAGCAGATAAGATGGTGGAAATGCAAGCGAAA
 ATTGACGAGGAGAGAAAAAGCACTGGAAACCAACTTGACATGGAAGAAGAAGAAAGAAACAGGCTAGAG
 CTGAACTAGAGAGACGGGAGAAGGACCTTCTGAAAGCCCAACAAGAGCATCAGTCTTTGCTGAAAAAGCT
 GTCTGCTTTGAAAAAGAAGGTCATTGTGCGGCGCGTGGACCTGCTGGCCAAGGCTGAGGAGCAAGAGAAG
 CTTCTGGAGGAGTCCAACATGGAGCTGGAGGAGAGGAGGAGACGAGCTGAGCAGCTTCGAAAGAGCTGG
 AGGAAAAGGAGCAAGAACGCTTGGACATCGAGGAAAAATATACCAGTCTGCAAGAGGAGGCCACAAGGAAA
 GACCAAGAAATTAAGAAAGTCTGGACCATGCTGATGGCTGCAAAGTCAAGATGGCTGATCTCCAGCAG
 GAGCATCAGAGGAGATCGAAGGCTCCTGGAGAATCCGGCAGCTCAGCCGGAGCTCCGTCTTCAGA
 TGCTCATATTGATAACTTCATACCTCAGGATTACCAGGAAATGATTGAAACTACGTCCACTGGAATGA
 AGACATAGGAGAATGGCAGCTAAAATGTGTGGCCTACACAGGAAATAACATGAGGAAACAACTCCAGTC
 CCTGACAAGAAGGAGAGAGACCCATTTGAAGTCGACCTTTCCACGTGTACCTCGCCTATACAGAGGAGA
 GTCTGCGTCAGTCTGTGTAAGTTAGAAAGGCCACGGACCTCCAAGGGGAAAGCAAGGCCAAAGATGGG
 GCGAAGAAAGCGTTCTGCAAAGCCTGAGACCGTAATTGATTCTTTACTTCAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001290806
Insert Size: 2085 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).

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| 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_001290806.1</u> , <u>NP_001277735.1</u> |
| RefSeq Size: | 5429 bp |
| RefSeq ORF: | 2085 bp |
| Locus ID: | 16568 |
| UniProt ID: | <u>P28741</u> |
| Cytogenetics: | 11 31.97 cM |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site in the central coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1.</p> |