

## Product datasheet for **MC228714**

### **Kif3a (NM\_001290805) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kif3a (NM_001290805) 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:** >MC228714 representing NM\_001290805  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGATCAATAAGTCGGAGAAGCCGAAAGCTGCGATAATGTGAAGGTGGTGGTTAGGTGCCGCCTC  
 TCAATGAGAGAGAGAAGTCAATGTGCTATAGACAGGCCGTCAGCGTGGATGAAATGAGGGAACTATCAC  
 CGTCCATAAGACCGATTCTCCAACGAACCTCCAAGACATTTACTTTTCGATACTGTTTTGGACCAGAA  
 AGTAAACAACCTTGATGTGTATACTTAACTGCAAGACCAATTATTGATTCTGTTCTGGAAGGCTACAATG  
 GGACCATCTTTGCATATGGACAGACTGGGACAGGCAAGACTTTCACCATGGAAGGCGTTCGAGCAGTACC  
 GGGGCTCAGAGGGGTATCCCAACTCATTGCTCACATATTTGGTCACATCGCAAAAGCAGAGGGCGAC  
 ACAAGTTTTTTGGTTCGAGTGCATACTTGGAGATATATAATGAAGAAGTTCGAGACCTTTGGGTAAAG  
 ATCAGACCCAGAGTTAGAGTTAAAGAAAGCCCTGATGTGGGAGTATATCAAAGACTTATCAGCATA  
 TGTAGTCAACAACGCTGACGACATGGATAGAATCATGACTCTAGGCCACAAAACCGTTCTGTCGGTGCG  
 ACTAATATGAACGAGCAGCTCCCGATCCCACGCCATCTTACAATTACTATAGAGTGCAGTGAGAAAG  
 GCGTGGACGGGAACATGCACGTCAGGATGGGCAAGCTCCACCTTGTGGATCTGGCTGGGTGAGAAAGACA  
 AGCAAAAAGCTGGAGCCACAGGACAGCGCCTCAAGGAAGCTACAAAATCAACCTTTCATTGTCTACCCTG  
 GGCAACGTTATTTCTGCCTTGGTGGATGGAAAAAGCACTCACGTGCCGTATCGGAACTCCAACTGACCC  
 GTCTCTCGAGGACTCCTTAGGAGGGAAGCTCAAAAACCATGATGTGTGCAAAATATGGGCCAGCAGATTA  
 TAATTATGATGAAACTATCAGCACCTTGGCGTATGCCAACCGCCAAGAACATTAAGAAAGCGGAGA  
 ATCAATGAGGACCCAAAGGATGCTCTGCTCCGCCAGTTTCAGAAAGAAATCGAAGAGCTGAAGAAAAAGC  
 TTGAGGAAGGGGAAGAAGTGTGAGGCTGACATCAGTGGGTGAGAGGAGGATGACGAGGAGGGTGAAT  
 TGGAGAAGATGGAGAAAAAAGAAAAAGAGAAGGGGTAAAAAGAAAGTTTCCCCAGATAAGATGGTGGAA  
 ATGCAAGCGAAAAATTGACGAGGAGAGAAAAAGCACTGGAACCAAACTTGACATGGAAGAAGAAGAAAGAA  
 ACAAGGCTAGAGCTGAACTAGAGAGACGGGAGAAGGACCTTCTGAAAGCCCAACAAGAGCATCAGCTTTT  
 GCTGGAAAAGCTGTCTGCTTTGGAAAAGAAGGTCAATTGTCGGCGGCGTGGACCTGCTGGCCAAGGCTGAG  
 GAGCAAGAGAAGCTTCTGGAGGAGTCCAACATGGAGCTGGAGGAGAGGAGGAGACGAGCTGAGCAGCTTC  
 GGAAGAGCTGGAGGAAAAGGAGCAAGAAGCTTGGACATCGAGGAAAAATATACCAGTCTGCAAGAGGA  
 GGCACAAGGAAAGACCAAGAAATTAAGAAAGTCTGGACCATGCTGATGGCTGCAAGTCAAGAGATGGCT  
 GATCTCCAGCAGGAGCATCAGAGGGAGATCGAAGGCCTCTGGAGAACATCCGGCAGCTCAGCCGGGAGC  
 TCCGCTTTCAGATGCTCATCATTGATAACTTCATACCTCAGGATTACCAGGAAATGATTGAAAAGTACGT  
 CCACTGGAATGAAGACATAGGAGAAATGGCAGCTAAAATGTGTGGCCTACACAGGAAATAACATGAGGAAA  
 CAACTCCAGTCCCTGACAAGAAGGAGAGAGACCCATTTGAAGTCGACCTTCCCACGTGTACCTCGCCT  
 ATACAGAGGAGAGTCTCGCTCAGTCTCTGATGAAGTTAGAAAGGCCACGGACCTCCAAGGGGAAAGCAAG  
 GCCAAAGATGGGGCAAGAAAGCGTTCTGCAAAGCCTGAGACCGTAATTGATTCTTTACTTCAGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001290805  
**Insert Size:** 2097 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).

<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001290805.1</a></u> , <u><a href="#">NP_001277734.1</a></u>
<b>RefSeq Size:</b>	5441 bp
<b>RefSeq ORF:</b>	2097 bp
<b>Locus ID:</b>	16568
<b>UniProt ID:</b>	<u><a href="#">P28741</a></u>
<b>Cytogenetics:</b>	11 31.97 cM
<b>Gene Summary:</b>	<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 (2) lacks an exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.</p>