

## Product datasheet for **MR230925**

### **Kif3a (NM\_001290805) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kif3a (NM_001290805) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kif3a
Synonyms:	Kif3; Kifl; Kns3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230925 representing NM\_001290805  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGATCAATAAGTCGGAGAAGCCGAAAGCTGCGATAATGTGAAGGTGGTGGTTAGGTGCCGCCTC  
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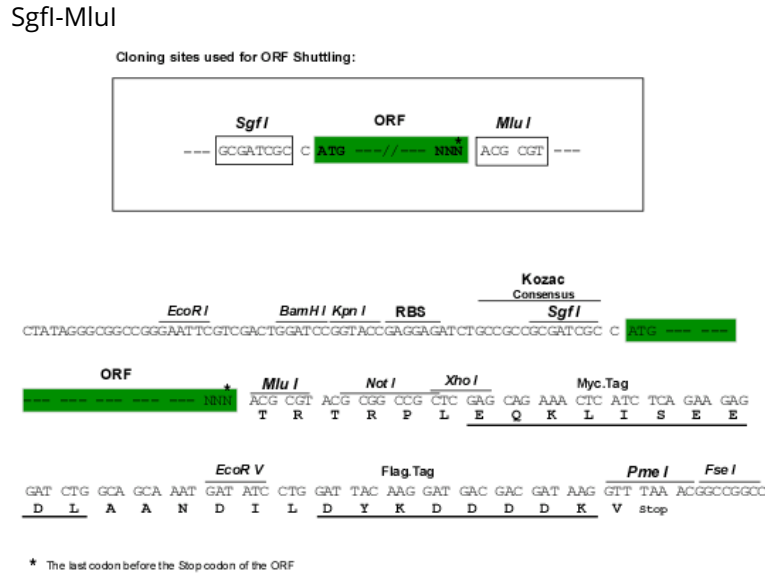
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
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Protein Sequence: >MR230925 representing NM\_001290805  
 Red=Cloning site Green=Tags(s)

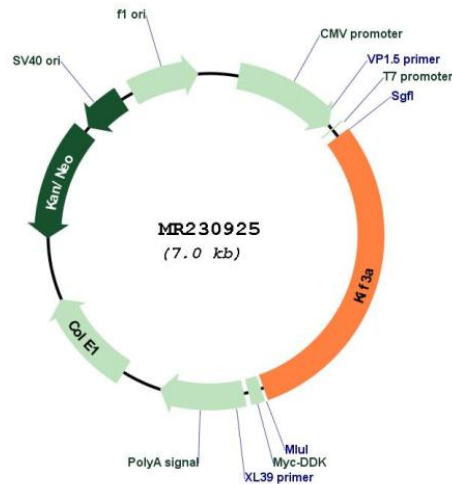
MPINKSEKPECDNVKVVVRCRPLNEREKSMCYRQAVSVDEMRTITVHKTDSSNEPPKTFTFDVTVFGPE  
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 TNMNEHSSRSHAI FTITIECSEKGV DGNMHV RMGKLHLVDLAGSERQAKTGATGQRLKEATKINLSLSTL  
 GNVISALVDGKSTHVPYRNSKLTRLLQDSLGGNSKTMMCANIGPADYNYDETISTLRYANRAKNIKMKAR  
 INEDPKDALLRQFQKEIEELKKKLEEGEEVSGSDISGSEEDDEEGELGEDGKPKKRRGKKVSPDKMVE  
 MQAKIDEERKALETKLDMEEEERNKARAELEERREKDLLKAQQEHQSLLEKLSALEKKVIVGGVDLLAKAE  
 EQEKLLLESNMELEERRRRAEQLRKELEEKQERLDIEEKYTSLQEEAQGKTKLKKVWMLMAAKSEMA  
 DLQQEHQREIEGLLENIRQLSRELRLQMLIIDNFIPQDYQEMIENYVHWNEDIGEWQLKCVAYTGNMNRK  
 QTPVPDKKERDPFEVDLSHVYLAYTEESLRQSLMKLERPRTSKGKARPKMGRKRSAKPETVIDSLLO

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:  
 Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001290805

ORF Size: 2094 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\\_001290805.1](#), [NP\\_001277734.1](#)

RefSeq Size: 5441 bp

RefSeq ORF: 2097 bp

Locus ID: 16568

UniProt ID: [P28741](#)

Cytogenetics: 11 31.97 cM

MW: 80.3 kDa

**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]