

## Product datasheet for **MC205289**

### Kif5a (NM\_008447) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kif5a (NM_008447) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kif5a
Synonyms:	D10Bwg0738e; Khc; Kif5; Kns; mKIAA4086
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC058396

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>BC058396
CCCCGATCCAGTGCCGACAGGACACCGAAAGCTCATCTTCCCCGAGGCGTTCAGCTGCTCCCTTGGCCTC
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AGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** Ascl-NotI
- ACCN:** NM\_008447
- Insert Size:** 3084 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).
- 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:** [BC058396](#), [AAH58396](#)

**RefSeq Size:** 4021 bp

**RefSeq ORF:** 3084 bp

**Locus ID:** 16572

**UniProt ID:** [P33175](#)

**Cytogenetics:** 10 74.5 cM

**Gene Summary:** Microtubule-dependent motor required for slow axonal transport of neurofilament proteins (NFH, NFM and NFL) (PubMed:12682084). Can induce formation of neurite-like membrane protrusions in non-neuronal cells in a ZFYVE27-dependent manner. The ZFYVE27-KIF5A complex contributes to the vesicular transport of VAPA, VAPB, SURF4, RAB11A, RAB11B and RTN3 proteins in neurons (PubMed:21976701). Required for anterograde axonal transportation of MAPK8IP3/JIP3 which is essential for MAPK8IP3/JIP3 function in axon elongation (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) differs in the 3' UTR compared to variant 1. Variants 1 and 2 encode the same protein.