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Product datasheet for MC229285

Kif5a (NM_001039000) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif5a (NM_001039000) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kif5a
Synonyms:	D10Bwg0738e; Khc; Kif5; Kns; mKIAA4086
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229285 representing NM_001039000 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGAGACTAACAACGAATGCAGCATCAAGGTGCTTTGCCGATTTCGGCCCCTGAACCAGGCCGAGA TTCTGCGGGGGGACAAGTTCATCCCCATTTTCCAAGGGGACGACAGCGTCATTATTGGGGGAAAGCCATA TGTCTTTGACCGCGTCTTCCCCCCAAACACCACTCAGGAGCAGGTTTACCACGCCTGTGCCATGCAGATC GTCAAAGACGTCCTTGCTGGTTACAATGGCACAATCTTCGCTTATGGACAGACATCCTCAGGGAAAACGC ATACCATGGAGGGGAAGCTGCACGACCCTCAGCTGATGGGCATCATTCCCCGGATCGCTCGAGACATCTT CAACCACATCTACTCCATGGATGAGAACCTTGAATTCCACATTAAGGTATCTTACTTCGAGATTTACCTG GATAAGATCCGTGACCTTTTGGATGTGACCAAGACGAACCTGTCCGTGCATGAGGACAAAAACCGGGTGC CGTTTGTCAAGGGTTGTACCGAACGCTTTGTGTCCAGCCCAGAGGAGATTCTGGATGTGATCGATGAGGG GAAGTCCAACCGTCACGTAGCTGTCACCAACATGAACGAGCACAGTTCTCGGAGCCACAGCATCTTCCTC ATCAACATCAAGCAGGAGAACGTAGAGACCGAGCAGAAGCTCAGCGGGAAGCTGTACCTCGTGGATCTGG CCGGAAGCGAGAAGGTCAGCAAGACAGGGGCAGAGGGAGCCGTTCTGGACGAGGCAAAGAATATCAACAA GTCGCTGTCGGCCCTGGGGAACGTGATCTCTGCACTGGCAGAGGGCACCAAAAGCTACGTGCCGTACCGC GACAGCAAAATGACGAGGATTCTCCAGGACTCTCTGGGAGGGAACTGCAGGACTACCATGTTCATCTGCT GCTCGCCGTCCAGCTACAATGACGCAGAGACCAAGTCCACGCTCATGTTTGGACAGCGGGCGAAGACCAT CAAGAACACTGCCTCAGTGAATCTGGAGCTGACTGCTGAGCAGTGGAAGAAGAAGTATGAGAAGGAGAAG GAGAAGACCAAGGCCCAGAAGGAGACAATTGCGAAGCTAGAGGCTGAGCTTAGCCGGTGGCGCAATGGAG AGAATGTGCCTGAGACTGAGCGCCTGGCTGGAGAGGACTCAGCTCTGGGAGCTGAGCTCTGCGAGGAGAC CCCTGTGAATGACAACTCATCCATTGTGGTACGCATCGCACCTGAGGAAAGGCAGAAATATGAGGAAGAG ATCCGCCGTCTCTACAAGCAGCTTGATGACAAGGATGATGAGATCAACCAGCAGAGCCAGCTCATTGAGA AGCTGAAGCAGCAGATGCTGGACCAGGAAGAGCTGCTCGTGTCCACTCGGGGAGACAACGAGAAGGTCCA GCGGGAGCTTAGCCACCTGCAGTCCGAGAACGATGCTGCGAAGGACGAGGTGAAGGAAGTGCTGCAGGCC CTAGAGGAGCTGGCGGTCAACTACGACCAGAAGTCCCAGGAGGTGGAGGAGAAGAGCCAGCAGAACCAGC

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TGCTGGTGGACGAGCTGTCCCAGAAAGTGGCCACCATGCTGTCCCTGGAGTCCGAGCTACAGCGGCTCCA
GGAGGTCAGTGGACACCAGCGAAAGCGGATCGCTGAGGTGCTGAATGGGCTGATGAGGGACCTGAGTGAG
TTCAGTGTCATCGTGGGCAACGGCGAGATTAAGCTGCCCGTGGAGATCAGTGGGGCCATCGAGGAGGAGT
TCACGGTGGCCCGGCTCTACATCAGCAAGATCAAGTCGGAGGTGAAGTCCGTGGTTAAGCGATGTCGGCA
GCTGGAGAACCTCCAGGTGGAGTGTCATCGCAAGATGGAGGTGACCGGTAGGGAGCTGTCATCTTGCCAA
CTGCTCATCTCACAGCATGAGGCCAAGATCCGTTCACTCACGGAGTACATGCAGACTGTGGAGTTGAAGA
AACGGCACCTGGAAGAGTCCTACGACTCCCTGAGCGATGAGCTTGCCAGGCTCCAGGCGCACGAAACTGT
ACACGAGGTAGCTCTGAAAGACAAGGAGCCAGACACACAGGACGCGGAGGAGGTGAAGAAGGCCCTGGAA
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AACAGAAAACCATTGATGAGCTGAAAGACCTGAACCAGAAGCTCCAGTTAGAGCTGGAGAAGCTTCAGGC
CGACTATGAGAGGCTGAAGAATGAAGAGAACGAGAAGAGCGCCAAGCTCCAGGAGCTGACATTTCTGTAT
GAGCGACATGAGCAGTCCAAGCAGGACCTCAAGGGGCTGGAGGAGACAGTTGCCCGTGAACTCCAGACCC
TCCACAACCTTCGCAAGCTGTTCGTTCAAGACGTCACGACTCGAGTCAAGAAAAGTGCAGAAATGGAGCC
CGAGGACAGTGGGGGGATTCATTCCCAAAAGCAGAAGATCTCCTTTCTTGAGAACAACCTGGAACAGCTT
ACAAAGGTTCACAAACAGCTGGTACGTGACAATGCAGATCTGCGTTGTGAGCTTCCTAAATTGGAAAAAC
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GAAGGACAAGCGTAGATACCAGCAGGAGGTGGACCGCATCAAAGAAGCCGTGCGGTACAAGAGCTCCGGC
AAGCGGGGCCATTCTGCCCAGATCGCTAAGCCTGTGAGGCCTGGCCACTATCCTGCCTCCTCACCCACCA
ACCCCTACGGCACCCGGAGCCCCGAGTGTATCAGCTACACCAACAACCTCTTCCAGAACTACCAGAACCT
GCACCTGCAGGCTGCGCCTAGCTCCACTTCAGATATGTACTTTGCCAGCAGCGGAGCCACATCTGTTGCC
CCCTTGGCTTCCTACCAGAAGGCCAACATGGACAATGGAAATGCCACAGATATCAACGACAACAGGAGTG
ACCTGCCGTGTGGCTATGAGGCTGAGGACCAGGCCAAGCTTTTCCCTCTCCACCAAGAGACAGCAGCCAG
CTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001039000

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).

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:
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_001039000.4, NP_001034089.1

RefSeq Size:	6334 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 (1) represents the longer and the predominant transcript. Variants 1 and 2 encode the same protein.