

## Product datasheet for **MC222865**

### **Kif5b (NM\_008448) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kif5b (NM_008448) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kif5b
Synonyms:	AL022807; Khc; Khcs; Kns1; Ukhc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222865 representing NM\_008448  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGACCCGGCGGAGTGCAACATCAAAGTGATGTGTCGCTTCAGACCTCTCAACGAATCTGAAGTGA  
 ACCGCGCGGATAAGTACGTCGCCAAATCCAGGGAGAAGACACGGTGATGATCGCGTCCAAGCCTTATGC  
 CTTTGATCGTGTGTTCCAGTCAAGCACATCTCAAGAGCAAGTATACAACGACTGTGCAAAAAAGATTGTT  
 AAAGATGTTCTTGAGGGCTATAATGGAACAATATTTGCATATGGACAAACATCATCTGGGAGACCCACA  
 CGATGGAGGGTAAACTTCATGATCCAGAAGGCATGGGAATTATCCAAAGAATAGTGAAGATATTTTTAA  
 TTATATTTACTCCATGGATGAAAATTTGGAATTCATATTAAGGTTTCATATTTTGAATATATTTGGAT  
 AAGATAAGGGACTTGTTAGATGTTTCAAAGACTAACCTTTCAGTCCATGAAGACAAAACCGTGTCCCT  
 ATGTAAGGGGTGCACAGAACGTTTCGTGTGTAGTCCAGATGAAGTCATGGATACCATAGATGAAGGGAA  
 ATCCAACAGACATGTCGAGTTACAAATATGAATGAACATAGCTCTAGGAGTCACAGCATATTTCTTATT  
 AATGTA AAAACAAGAGAATACACAACCGAACAGAACTCAGTGGAAAGCTTTATCTGGTTGATTTAGCTG  
 GCAGTGAGAAGGTTAGTAAGACTGGGGCTGAAGGTGCTGTGCTGGATGAAGCTAAGAACATCAACAAGTC  
 ACTTTCTGCACCTTGGAAATGTCATTTCTGCTTTGGCAGAGGGCAGTACCTATGTTCTTATCGAGATAGT  
 AAAATGACCAGAAATCTCAAGATTCATTAGGTGGCAACTGTAGGACCATTGTCATATGCTGCTCTC  
 CATCATACATAATGAGTCTGAGACAAAGTCAACACTCCTCTTTGGTCAAAGGGCCAAAACAATTAAGAA  
 CACAGTCTGTGCAATGTAGAGTTAACTGCGGAGCAGTGGAAAAAGAAGTATGAAAAAGAAAAGGAAAA  
 AATAAAACTCTACGGAACACTATTCAGTGGCTGGAAAACGAGCTAAACCGTTGGCGTAACGGGGAGACAG  
 TGCCATTGTAGCAGTGTGACAAAGAGAAAGCTAATTTGGAAGCCTTCACAGCGGATAAAGATATTGC  
 TATTACCAGTGATAAACACAGCTGCTGAGTCGGAATGGCTGGTAGTTTTACCGATGCTGAAAGAAGAAAG  
 TGTGAAGAAGAATTGCTAAATGTATAAACTTGTGACAAGGATGAAGAGATTAACCAACAAAGCC  
 AATTGGTAGAGAAATGAAGACACAAATGCTGGATCAGGAAGAGCTTCTGGCATCAACCAGAAGGGATCA  
 AGATAATATGCAAGCTGAAGTGAATCGCTCCAAGCAGAAAATGATGCTTCTAAAGAAGAAGTCAAAGAA  
 GTTTTACAGGCCCTAGAGGAAGTGGCTGTTAATTATGATCAGAAGTCTCAGGAAGTTGAAGACAAAAACA  
 AGGAATATGAATTGCTTAGTGATGAATTGAATCAAAAACTGCAACTTTAGCAAGTATTGATGCTGAGCT  
 TCAGAAGCTGAAGGAAATGACCAACCACCAGAAGAACGAGCAGCTGAAATGATGGCATCATTATAAAA  
 GACCTTGACAGAAATAGGAATTGCTGTGGGGAATAACGATGTGAAGCAACCAGAAGGAACTGGTATGATAG  
 ATGAAGAGTTTACTGTTGCAAGACTCTACATTAGCAAAAATGAAATCAGAAGTAAAGACCATGGTGAACCG  
 CTGCAACAGCTAGAAAGCACACAGACTGAGAGCAACAAAAAAATGGAAGAAAATGAGAAAGAGTTAGCA  
 GCATGCCAGCTTCGGATCTCCCAACATGAAGCCAAAATCAAGTCACTGACTGAGTACCTTCAGAATGTAG  
 AACAAAAGAAGAGGCAGCTGGAGGAGTCTGTTGATTCCTTGGTGGAGGCTAGTCCAACCTCCGAGCACA  
 AGAGAAAGTCCATGAAATGGAAAAAGAGCACTTGAACAAGGTTGAGACTGCAAAATGAAGTCAAGCAAGCT  
 GTTGAGCAGCAGATCCAGAGTACAGAGAAACCCACAAAAACAATCAGTAGTTTGGGAGATGAAGTGG  
 AGGCAAAGGAAAAGCTAATCACTGACCTCCAAGACCAAAACAGAAAGTGGTGTGGAGCAGGAACGGCT  
 AAGGGTGGAGCATGAGAGGCTGAAGGCTACAGACCAAGAGAAGCAGGAAGCTGCACGAGCTCACGGTT  
 ATGCAAGACAGACGAGAACAAGCAAGACTTGAAGGGTTTGGAGGAGACCGTGGCAAAAAGAACTTC  
 AGACTTTACACAACCTGCGTAAGCTCTTTGTTCAAGACTTGGCTACCAGGGTGA AAAAGAGCGCCGAGGT  
 CGACTCTGACGACACTGGCGCAGTGTGCACAGAAGCAGAAAATCTCCTTCTTGA AAAACAACCTTGAA  
 CAGCTCACAAAGTGACAAGCAGTTGGTACGCGATAATGCAGATCTTCGCTGTGAGCTTCTAAGTTAG  
 AGAAACGGCTTAGAGCTACTGCAGAAAGAGTGAAGCTTTGGAGTCAGCCCTGAAAGAAGCCAAAGAAAA  
 TGCATCTCGAGACCGTAAACGCTATCAGCAAGAAGTAGACCGGATAAAGGAAGCAGTCAGGTCAAAGAAC  
 ATGGCCAGAAGGGGACATTTGCCCAGATTGCAAAGCCGATCCGTCTGGACAGCATCCAGCGCCCTCGC  
 CAACTCACCCGGGCACAGTTCGTGGAGGAGGCTCATTGTTCAGAACACACAGCCAGTGGGGCTTCGTGG  
 TGGTGGAGGCAAGCAGTCG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_008448
<b>Insert Size:</b>	2892 bp
<b>OTI Disclaimer:</b>	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>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_008448.3</a></u> , <u><a href="#">NP_032474.2</a></u>
<b>RefSeq Size:</b>	6030 bp
<b>RefSeq ORF:</b>	2892 bp
<b>Locus ID:</b>	16573
<b>UniProt ID:</b>	<u><a href="#">Q61768</a></u>
<b>Cytogenetics:</b>	18 4.46 cM
<b>Gene Summary:</b>	Microtubule-dependent motor required for normal distribution of mitochondria and lysosomes. May be involved in the mechanisms of growth arrest induced by exposure to DNA-damaging drugs or by cellular senescence (PubMed:9657148). Can induce formation of neurite-like membrane protrusions in non-neuronal cells in a ZFYVE27-dependent manner (PubMed:21976701). Regulates centrosome and nuclear positioning during mitotic entry. During the G2 phase of the cell cycle in a BICD2-dependent manner, antagonizes dynein function and drives the separation of nuclei and centrosomes. Required for anterograde axonal transportation of MAPK8IP3/JIP3 which is essential for MAPK8IP3/JIP3 function in axon elongation (By similarity).[UniProtKB/Swiss-Prot Function]