

## Product datasheet for **RN206635**

### **Kif5b (NM\_057202) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kif5b (NM_057202) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kif5b
Synonyms:	Khc
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN206635 representing NM\_057202  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGACCCGGCGGAGTGCAACATCAAAGTGATGTGTCGCTTCAGACCTCTCAACGAGTCTGAAGTGA  
 ACCGCGGCGACAAGTATGTCGCCAAGTTCCAGGGAGAAGACACGGTGATGATTGCCGCCAAGCCTTATGC  
 ATTTGATCGTGTGTTCCAGTCAAGCACATCTCAAGAGCAAGTATACAACGATTGTGCAAAGAAGATTGTT  
 AAAGATGTTCTTGAGGGCTATAATGGAACAATATTTGCATATGGACAAACATCATCTGAAAAGACCCACA  
 CAATGGAGGGTAACTTCATGATCCAGAAGGCATGGGGATTATTCGAAGAATAGTGAAGATATTTTTTAA  
 TTATATTTACTCCATGGATGAAAATTTGGAATTCATATTAAGGTTTCATATTTTGAAATATATTTGGAT  
 AAGATAAGGGACCTGTTAGATGTTTCAAAGACTAACCTTTCAGTCCATGAAGACAAAACCGTGTCCCT  
 ATGTAAGGGGTGCACAGAGCGTTTGTGTGTAGTCCAGATGAAGTTATGGATACCATAGATGAAGGGAA  
 ATCCAACAGACAGTAGCAGTTACAAATATGAATGAACATAGCTCTAGGAGTCACAGTATATTTCTTATC  
 AATGTAAGCAAGAGAATACACAGACAGAACAGAACTCAGTGGGAAGCTTTATCTGGTTGATTTAGCTG  
 GAAGTGAAAAGGTTAGTAAAACCTGGAGCTGAGGGTGCCGTGCTGGATGAAGCTAAGAACATCAACAAGTC  
 ACTTTCTGCACCTTGGAAATGTCATTTCTGCTTTGGCAGAAGGCAGTACCTATGTTCTTATCGAGACAGT  
 AAAATGACCAGAAATCTCAAGATTCATTAGGTGGCAACTGTAGGACCATTGTCATTTGCTGCTCTC  
 CGTCATCTTACAATGAGTCTGAGACAAAGTCAACACTCCTCTTTGGTCAAAGGGCCAAAACAATAAAGAA  
 CACAGTCTGTGCAACGTAGAGTTAACTGCAGAGCAGTGGAAAAAGAAGTATGAAAAAGAAAAGGAAAAA  
 AATAAGACTCTACGGAACACCATTCACTGGCTGGAAAACGAGCTCAACCGATGGCGTAACGGGGAAACAG  
 TGCCATTTGATGAGCAGTTTGACAAAGAGAGGCTAATTTGGAAGCCTTCACAGCAGATAAAGATGTTGC  
 TATTACCAATGACAAACCGGCTGCTGCAATCGGAATGGCTGGTAGTTTTACAGATGCTGAGAGAAGAAAG  
 TGTGAAGAAGAAATTGCTAAATTGTATAAACTTGTGACAAAGGATGAAGAGATTAACCAACAGAGCC  
 AACTGGTGGAGAAATGAAGACACAATGTTGGATCAGGAAGAGCTTCTGGCATCAACCAGAAGGGATCA  
 AGATAATATGCAAGCTGAAGTGAATCGCTCCTCAAGCAGAAAATGATGCTTCTAAAGAAGAAGTCAAAGAA  
 GTTTTACAGGCCCTAGAGGAGCTGGCTGTTAATTATGATCAGAAGTCTCAGGAAGTTGAAGACAAAAACA  
 AGGAATATGAATTGCTTAGTGATGAATTGAATCAAAAACTGCAACTTTAGCAAGTATTGATGCTGAGCT  
 TCAGAAGCTGAAGGAAATGACCAACCACCAGAAGAAACGAGCAGCTGAAATGATGGCATCATTACTAAAA  
 GACCTTGACAGAAATAGGAATTGCTGTGGGAAATATGATGTAAGCAACCGGAGGGGACTGGTATGATAG  
 ATGAAGAGTTTACTGTTGCAAGGCTCTACATTAGCAAAAATGAAATCAGAAGTAAAAACCATGGTGAACCG  
 CTGCAACAGCTAGAAAGCACACAGACTGAGAGCAACAAAAAAATGGAAGAAAATGAGAAGGAGTTAGCA  
 GCATGCCAGCTTCGTATCTCCCAACATGAAGCCAAAATCAAGTCACTGACTGAATACCTTCAAAATGTAG  
 AACAAAAGAAGAGACAGCTGGAGGAATCTGTGGACTCCCTTGGTGGAGGCTAGTCCAACCTCGAGCACA  
 AGAGAAAGTCCATGAAATGGAAAAAGAGCACTTGAACAAGGTTTCAGACTGCAAAATGAAGTCAAGCAAGCT  
 GTTGAACAGCAGATCCAGAGTACAGAGAAACCCACAAAAACAATCAGTAGTTTACGAGATGAAGTTG  
 AGGCAAAGGAAAAGCTAATCACTGATCTCCAAGACCAAAACAGAAAGTGGTGTGGAACAGGAGCGGCT  
 AAGGGTGGAGCATGAGAGGCTAAAGGCTGTAGACCAGGAGAAGAGCAGGAAGCTGCATGAGCTCACGGTT  
 ATGCAAGACAGACGAGAACAAGCAAGGCAAGATTTGAAGGGGTTGGAAGAGACGGTGGCAAAGAACTTC  
 AGACTTTACACAACCTGCGCAAGCTCTTTGTTCCAGGACTTGCTACCAGGGTGAAGAAAGAGCGCTGAGGT  
 GGACTCAGACGACTGGCGGCACTGCTGCACAGAAGCAGAAAATCTCCTTCTTGAAGCAATCTGGAG  
 CAGCTCACAAAGTGACAAGCAGTTGGTGCCTGATAATGCAGATCTTCGCTGTGAACCTTCTAAGTTAG  
 AGAAACGACTTAGAGCTACTGCAGAGAGAGTGAAGCTTTGGAGTCAAGCCTGAAAGAAGCCAAAGAAAA  
 TGCATCTCGAGACCGCAAACGCTATCAGCAAGAAGTAGACAGGATAAAGGAAGCAGTCAAGTCAAAGAAT  
 ATGGCCAGAAGGGGACACTCTGCACAGATTGCAAAACCTATCCGTCTGGACAGCATCCAGCAGCCTCTC  
 CAACTCACCCCGGTGCAGTTCTGGAGGAGGCTCATTGTTTCAGAAACACAGCCAGTGGGGCTTCGAGG  
 TGGTGGAGGCAAGCAGGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_057202
<b>Insert Size:</b>	2892 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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>	<a href="#">NM_057202.1</a> , <a href="#">NP_476550.1</a>
<b>RefSeq Size:</b>	2892 bp
<b>RefSeq ORF:</b>	2892 bp
<b>Locus ID:</b>	117550
<b>UniProt ID:</b>	<a href="#">Q2PQA9</a>
<b>Cytogenetics:</b>	17q12.1
<b>Gene Summary:</b>	mouse homolog is the heavy chain of kinesin; essential for mitochondrial and lysosomal dispersion [RGD, Feb 2006]