

## Product datasheet for **MC224765**

### Kif21b (NM\_001039472) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kif21b (NM_001039472) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kif21b
Synonyms:	2610511N21Rik; mKIAA0449
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NM_001039472.1 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGGCCAGGGCGACTGCTGCGTCAAAGTGGCCGTCAGGATCCGGCCCCAGCTGTCAAAGGAGAAGA  
TTGAAGGCTGTCACATCTGTACCTCCGTTACCCCGGGAGAGCCCCAGGTCTGCTGGGGAAGGACAAGGC  
CTTCACCTATGACTTTGTCTTTGACCTGGACACCTGGCAGGAGCAAATCTATTGACCTGTGTGAGCAA  
CTCATCGAAGGCTGCTTTGAGGGCTATAATGCCACAGTCTAGCCTATGGACAGACAGGGCTGGGAAGA  
CATATACTATGGGCACCGCTTTGACACAGTGACATCAGAAGAGGAGCAGGGCATCATCCAAGGGCCAT  
TGCACATCTTTCAGGGCATCGACGAACGCAAGCGGGCACAAGAGAAGGGTGTGACTGGGCCTGAG  
TTCAAAGTCAGTCTCAATTCCTGGAGCTCTACAATGAAGAGATCCTTGACCTATTTGACAGCACCCGTG  
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AGGTGTCACTTCTCGCCTGATCAACTCCAGGAGGAGTCCAGTGCCTGAAGCAGGGCGCCCTGTCA  
CGTACCACAGCCAGCACCCAGATGAATGTACAGAGCTCCCGATCCCATGCCATCTTACCATCCACTGT  
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CCCCACAGGCACTGAGTACGAGACTCTCACTGCTAAGTTTCACTTCGTGGACTTGGCTGGCTCAGAGCG  
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GCTCACTCGGCTGCTCCAGGACTCTCTTGAGGCAACAGCCAGACCATCATGATCGCCTGTGTGAGCCCC  
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AAGTGGTGGTGAACCAGGACAAGACCAGCCAGCAGATCAGCGCGCTGCGGGCTGAGATCGCACGCTGCA  
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AAGCCATTGATGCCATCAACAACCGGGTACACAACCTCATGAGCCAGGAGGCCAACCTGCTTCTGGCCAA  
GGCTGGTATGGCAATGAGGCCATTGGTCTCTGATCCAGAATACATCCGGGAGATCGAGGAGCTGCGA



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ACAAAGCTCCTGGAGAGTGAGGCTATGAATGAGTCCCTCCGCAGAAGCCTCTCCCGGGCTTCCGCTCGGA  
 ATCCCTACTCCCTGGGAGCATCTCCAGCAGGTCCAGCCTTTGGGGCAGCCCCGCCACCTCCATGGAAGA  
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 GGATGAGGATGAAGACTCGGGCAGTGAAGAGAGCCTGGTAGACTCAGACTCCGACCCTGAAGAAAAGGAA  
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 CAGAAGGAAGCCAGATCCGGCTGCTAGAAGGACGCTTAGACAGACAGACATGACAGGCTCTTCCAGAA  
 ACCACCTGCTCTAGACGCTTTGCGTGAGAAGGCCGAGGCACACCCCGAGCTGCAGGCCCTCATCTACAA  
 TGTGCAGCATGAGAATGGCTATGCAAGCACAGATGAGGAAGTTTCTGAGTTCTCTGAGGGGAGCTTTTCC  
 CAGTCAATTTACCATGAAAGGCTCCACCAGCCACGATGACTTCAAGTTCAAGGGTGAGCCCAAGCTATCCG  
 CACAGATGAAGGCCGTGCTGCGGAGTGCCTAGGACCCCATTTGGACAGCTTACCAAGAACATCACCAA  
 GTCCCTGGCCTCCCTCGTTGAGATCAAAGAGGATGGGGTGGGCTTCTCTATCCGGGACCCCTACTACCGG  
 GACAAGGTCTCAGCACCGTCAAGCTGCCACCCGGGGCAGCACTTCCCTCGGCAATCTCGAGGTGCCA  
 CGGACAGTCTCCTCTTACCAGGAAGTCTTATGACCGGGGACAGCCCATCAGATCCACAGACATGGG  
 ATTCACACCTCCCTCATCACCTCCCACTCGGCCCGCAACGACCCCAACGCTTCTCTCGTCTCACACAGC  
 AATCAGAGCCAGGGCTCAGCACTGGACAAGTCTGATGACAGCGACTCCTCTTTGTGCGGAGGTCTGAGGG  
 GCATCATCACCCCATTTGGCGGAGCTAAGGGAGCGCGGACGGCCCCGCTGCAGTGCATCTCCATGGCCGA  
 GGGTCACACCAAGCCCATCTCTGCCTGGATGCCACCGATGAGCTGCTTTTACGGGATCCAAAGACCGT  
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 TATCCGGGACTCAGCCAAGTGCATTCGGACACTCAGTCTCAGGCCAGGTGATCTCAGGAGATGCGTGC  
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 CCTCAGGCTCCATGCTATACGTTGCCTCTGGCAATGCTGTCCGCATCTGGGAGCTCAACAGGTTCCAGCC  
 CATTGGCAAACCTGACTGGCCACATTGGCCAGTGTGCTTAAACAGTCAACCCAGACTTCAAACCAGCAT  
 GACCTCGTGGTGACGGGCTCCAAGGACCACTATGTGAAGATGTTCCAGCTGGGCGACTGTGTGACGGGCA  
 CCATTGGCCCAACCCACAACCTTTGAGCCCCCTCACTATGATGGTATTGAATGCCTGGCTATCCAAGGAGA  
 CATACTCTCAGTGGCTCCAGAGACAATGGCATCAAGAAGTGGGACCTGGACCAGCAGGAGCTCATCCAG  
 CAAATCCCAACGCTCACAAGGACTGGGTGTGCGCCCTGGCCTTTGTACCCGGCCGGCCCATGCTGCTGA  
 GCGCCTGCGGGCCGGCTTCATCAAGGTCTGGAATGTGGACAACCTCACACCCATTGGTGAGATCAAGGG  
 CCACGACAGCCCATCAATGCCATCTGCACCAACAGCAAGCACATCTTACGGCCTCCAGTGACCTGACA  
 GTGAAGTTCTGGAGCATACGGCGCTACCAGCAGCCACCCCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Chromatograms:</b>	<a href="https://cdn.origene.com/chromatograms/ja1430_h04.zip">https://cdn.origene.com/chromatograms/ja1430_h04.zip</a>
<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001039472
<b>Insert Size:</b>	4875 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>	<a href="#">NM_001039472.1</a> , <a href="#">NP_001034561.1</a>
<b>RefSeq Size:</b>	9119 bp
<b>RefSeq ORF:</b>	4875 bp
<b>Locus ID:</b>	16565
<b>UniProt ID:</b>	<a href="#">Q9QXL1</a>
<b>Cytogenetics:</b>	1 59.61 cM
<b>Gene Summary:</b>	<p>Plus-end directed microtubule-dependent motor protein which displays processive activity (PubMed:27117409, PubMed:10225949). Is involved in regulation of microtubule dynamics, synapse function and neuronal morphology, including dendritic tree branching and spine formation (PubMed:27117409). Plays a role in learning and memory (PubMed:27117409). Involved in delivery of gamma-aminobutyric acid (GABA(A)) receptor to cell surface (PubMed:25172774).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the protein-coding transcript. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>