

## Product datasheet for **MC224764**

### Kif21a (NM\_001109041) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kif21a (NM\_001109041) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Kif21a  
**Synonyms:** AI850764; mKIAA1708  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224764 representing NM\_001109041  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTGGGCGCTGCGGACGAGAGCTCGGTGCGCGTGGCTGTCAGAATAAGACCACAGCTTGCCAAAGAGA  
 AGATCGAAGTTGCCATATCTGCACGTGAGTACACACCGGAGAGCCTCAGGTCTTCTCGGAAGGATAA  
 GGCCTTTACTTTTGATTATGTGTTGACATTGACTCCCAGCAGGAGCAGATCTACACCCAGTGCATCGAA  
 AAGCTCATTGAAGGCTGTTTTGAAGGCTACAATGCCACCGTGTTCCTATGGACAAACCGAGCTGGGA  
 AAACCTACACGATGGGAACCGGATTTGACGTGAACATCATGGAGGAAGAGCAGGGCATCATCTCTCGTGC  
 TGTAGACACCTGTTCAAGAGTATTGATGAGAAAAAGACCTCAGCGATTAACCGGGCTGCCCCCTCT  
 GAATTCAAAGTGAATGCCAGTTCCTAGAGCTCTATAATGAAGAGGTCCTTGACTTGTGATACCACTC  
 GGGATATTGATGCAAAAAATAAAAAATCAAAATAAAGAATTCATGAAGATTCAACTGGAGGAATTTATC  
 TGTGGGCGTCACAACACGCACTGTGAATACAGAACCGGAGATGATGCAGTGTCTGAAGCTGGGCGCTCTC  
 TCGCGCACCGCCAGCACCCAGATGAACGTACAGAGCTCTCGTTCACACGCCATCTTTACCATCAGC  
 TGTGTCAAACAGAGTGTGTCCCAACAGATGCTGAGAACGCAACTGATAATAAGCTGATCTCCGAATC  
 GTCGCCAATGAATGAGTTTGAGACGCTGACGGCGAAGTTTCACTTTGTTGATCTGGCGGGATCGGAAAGA  
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 GCTGACAAGACTCTGCAGGATTCCTTGGGGTAACAGCCAAACCATCATGATAGCATGCGTCAGCCCT  
 TCAGACAGGGATTTGATGGAGACGTTAAACACTCTGAAGTACGCCAATCGAGCGAGAAATATCAAGAACA  
 AGGTGATGGTCAATCAAGACAGAGCCAGTCAGCAAATCAACGCGCTGCGGAGCGAGATCACGCGCCTTCA  
 GATGGAGCTCATGAATACAAAACCGTAAAAGAATAATTGACGAGGAAGGCGTGGAAAGCATCAATGAC  
 ATGTTTCATGAGAATGCTATGCTGCAGACGAAAATAAATCTGCGTGAAGAATAAAGCCATGCAGG  
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 AGCAGGTGAAGGGAACGAAGAGATCAGTAATATGATTCATAGTTATATCAAGAAATGAAGACCTCAGG  
 GCAAAATTATTAGAAAGTGAAGCAGTGAACGAGAACCTTCGGAAGAACTTGACCAGAGCCACGGCGAGAT



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CTCCTTACTTCAGTGCCTCCTCAGCTTTCTCGCCTACTATACTGTCTTCAGACAAGGAGACTATCGAAAT  
TATAGTCTAGCAAAGAAAGACTTGGAGAAGCTAAAACGGAAAGAGAAGAAGAAGAAAGTGTGCC  
GGGAAAGACGATAATGCAGACACTGACCAGGAGAAGAAAGAAAGAAAGGGTGTTCAGAGAAAGAAAACA  
ATGAGCTAGACGTGGAAGAGAATCAAGAAGTGAGTGACCACGAGGATGAGGAAGAGGAGGAAGAGGACGA  
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AACTATCAAGCCGACTTAGCAAAATCACCTGCCGAGATTGCGATTAAGCAGAAGCTGATCGACGAACTGG  
AGAACAGCCAGAAACGGCTGCAGACCTGAAAAAGCAGTACGAGGAGAAGCTGATGCTCCAACATAA  
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GGCCAGGCACCCAGCAGAAAATGAGGATCCCCGTGGCAAGAGTCCAGGCATTACCAACACCTACAACAAA  
TGGCACCAGGAAAAAATATCAGAGGAAAGGATTACTGGCCGGGTGTTCACTTCCAAGACAGCCCGCATG  
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CGGACATGAACAGACTCCTCAGGCAACGGGAAGAACTCACAAAAGGCGAGAGAACTTTCTAAAAGGAG  
AGAGAAGATAGTCAAGGAGAGCGGAGAGGGAGATAAAAGTGTGGCTAACATCATCGAGGAGATGGAGTCC  
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AGGCAAAAGGAAGAAGGGGAGACATTGGATGTCACCGCTGTCAATTAATGCCTGTACTGACAGAAAGCTCG  
GTCACTGTAGTCACTTCTGTCAATGGGCATCAATAAGGGTCTGCAGGCTGCCAGAAAGAGGCTCAA  
ATTAAGTCTCGAGGGTGCAGTCAAAACAGACCGAAATCACCAGTGAACCCAGAACCAACTCTTATTCC  
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GAGGGAAGCACGTTATCTTCAGACCTTATGAAGCTTTGTGGTGAAGTGAACCAAGAACAAGGCTCGAA  
GGAGAACCACCACTCAGATGGAGTTGCTGTATGCAGATAGCAGTGAAGTAGCCTCAGACACTAGTGCAGG  
AGATGCCTCCTTGTCTGGCCCTCTGGCACCTGTTGCAGAAAGGCAGGAGATTGGAATGAACACAGAGACA  
AGTGGTACTTCTGCTAGGACAAAAGAGCTTCTTCCCCATCTGGCTTACCTTCTAAGATAGGCAGCATCT  
CAGATTCGGGCGCTTCCGAGACTAGTCTCTCACCTCCTCCTCCCCAACCGCCCGCCGTAACGAACT  
GAATGTGTTAATCGCCTTACTGTGCCTCAGGGAACCCCGTCAGTTCAGCAGGATAAGTCTGATGAAAGT  
GACTCCTCTTGTCCGAGGTGCACAGCAGATCCACCAGAAGAGGCATAATCAACCCATTTCTGCCTGCA  
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GGATTCTACGGATGATCTTCTTACCAGGATCAAAAAGTTCGCACTTGTAAAGTATGGAATCTCGTGACT  
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GTCTGGTCTTACCAGTGCAGACTTATTAAGGTGTGGGATATCAGAGAGTCAGCAAAATGCATTCC  
AACATTAACATCTTCAGGTCAAGTTACCCTTGGAGAAGCGTGTCTGCCAGCACCAGCCGGACAGTAGCT  
ATTCCTTCCGGGAGAGCCAGATCAATCAAATGCACTAAACCAACTGGCACTTCTCTACGCGCCCT  
CTGGAAATGCCGTGAGAATGTGGGACCTTAAAAGGTTTCACTACAGGAAAGTAAACCGACACCTGGG  
TCTGTATATGTGCCTTACGGTAGACCAGATCTCCAATGGACAGGACCTCATCATCACTGGCTCAAAAAGC  
CACTACATCAAAAATGTTGATGTGACTGAAGGGGCTCTTGGAACTGTAAGTCCCACCCACAACCTCGAGC  
CTCCTCATTATGATGGGATAGAAGCACTGGCCATTCAAGGCGATAACCTATTCAGTGGGTCCAGAGATAA  
TGGAAATCAAGAAATGGGACTTAGCTCAGAAAGGCTTCTTTCAGCAAGTCCCAAATGCACACAAAGACTGG  
GTGTGTGCCCTGGGCTGGTCCAGGCCATCCGGTTTTGCTGAGTGGCTGCAGAGGCGGCATTCTGAAAC  
TCTGGAATGTGGACACTTTGTGCCGTTGGAGAGATGAGAGTGCATGACAGTCCCATCAATGCCATTTG  
TGTTAACTCCACCATGTCTTACTGCTGCTGATGATCGAACCGTGAAGTCTGGAAGGCCCAACTTG  
CAAGATGGTCAACTCTCTGACACCGCGATCTGGGGGAGGATATTGCCAGTAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001109041
<b>Insert Size:</b>	4887 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_001109041.2</a></u> , <u><a href="#">NP_001102511.1</a></u>
<b>RefSeq Size:</b>	6311 bp
<b>RefSeq ORF:</b>	4887 bp
<b>Locus ID:</b>	16564
<b>UniProt ID:</b>	<u><a href="#">Q9QXL2</a></u>
<b>Cytogenetics:</b>	15 45.86 cM
<b>Gene Summary:</b>	<p>Microtubule-binding motor protein probably involved in neuronal axonal transport. In vitro, has a plus-end directed motor activity.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.</p>