

## Product datasheet for MC224320

### Kif24 (NM\_024241) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kif24 (NM_024241) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kif24
Synonyms:	4933425J19Rik; 9430029L23Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224320 representing NM_024241 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCATCCTGGTTATATGAGTGTCTTTGTGAGGCTGAGCTTGCACAGTATTATCCTCATTTTACTGCGC  
TTGGCCTTCAAAAAATAGATGAATTAGCCAAGGTTACAATGAAGGACTACTCCAGATTGGGAGTCCATGA  
CATGAACGACCGCAAACGTCTTTTCAGCTTATCAAAATCATTAAAGATTATGCAGGAGGAAGATAAAGCC  
CTCGGTATCCCAGAGCATCCTCTTCAGGCAAGCAGCCTGTACACCAAGCCTCGGGAAATTCAGATCTGGGC  
CCCGAAGACAACCTGCATTTTGTCTCTCTGTCAGCAAAAGATAAAATGGCCAACAATGAAACAGGCAG  
TTTATCCAACCTCTCTGTGGATGAGCAGAAGTCCACTTACCTGAAAGTGTCTGGAGCACATGCTACCAGAT  
GATTTCCAGTGCCAGACAAAAAATAGAGCCCGGATGCCTCTGTCTGTGATGCTTCCATGCAAACGGAAA  
CCAACGCTCCGCTCTTTTCATCAAATTACTTCTCTCCACAACGGGAAATGTGATATTTCCGTTATTCA  
AAGAGTCTCTCATGTGTCAGGGTATAACTATGGAATTCCTCATTCTTGTGTCAGGCAGATCACCTCAGAG  
AATCCTTGGACTGAAATGGAGAAAAATCAGAGTTGTGTTGAAACGGCCTTTAGGTGTAAGGGAAGTAC  
GTCGTGGAGAAGTTAATGTTATTACTGTAGAAGATAAAGAACTCTGCTGTACATGAGAAAAAGAAC  
AGTTGACCTTACTCAATATATTCTTCAGCATGTTTTTATTTTATTTGATGAAGTCTTTGGTGAGGCATGCAGC  
AATCAAGATGTATACCTGAAGACTGCTCACCCCTCATTACAGCATATTTTCAACGGAGGAAGTGCCACTT  
GCTTTGCATATGGACAAACAGGTGCGGGGAAAACCTATACCATGATAGGAACTCATCAAACCCAGGATT  
GTATGCTCTGGCTGCCAAAGATATCTTCAGGCAGCTGAAAGTATCCCAGTCAAGAAGGAATCTCTTTGTG  
TGGATCAGCTTCTATGAGATCTACTGTGGACAACCTTTATGACCTCCTAAATAGAAGAAAACGGCTCTTTG  
CAAGAGAAGATAGCAAGCATGTGGTACAGATAGCTGGCCTTCGAGAGCTCCAAGTGGACAGTGTGGAGCT  
ACTCCTACAGGTGATCTTAAAGGGCAGCAAGGAGCGCAGCACAGGGGCCACTGGTGTCAACGCAGACTCC  
TCCGTTCCCATGCTATCATCAAATTCAGATCAAAGATTCAGCCAAGAGGACATTTGGCAGGATCTCTT  
TCATTGACTTGGCTGGGAGTGAGAGAGCAGCAGATGCCAGGGACTCAGACAGACAGACAAAAGATGGAAGG  
CGCGGAGATCAACCAGAGTCTTCTGGCTCTGAAAGAATGTATCCGAGCACTGGACCAGGAACACACCCAC  
ACGCCTTTCAGGCAGAGCAAACCTGACTCAGGTCCTGAAGGACTCTTTCATTGGCAATGCCAAAACCTGCA



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TGATCGCCAACATCTCCCAAGCCACATAGCCACAGAGCATAATTGAATACCTTGCGCTATGCTGACCG  
 GGTGAAGGAACAAAGAAAGCGTTAAGTGTGTGCTTACAGTACCAGTCAGAATCAGACATCTGCAAAAC  
 GCCTCTCCAAAACGAATTCAGAGCTCCCCTGTACCCTCCCCGGGGACAAGTGCTCCCCCAAAAAGTTA  
 AGCTGGGACTTCAGCAGTCACTTACTGTGGCCCCAGGCCCAAAAAGTTAAAGCCCATCCTTTGGCCAG  
 CCATGTTCCCAACGTCCCCTTACCTCTGGACCTAAAACCCCTGGTAAAAAAGTAGTTCCTGGGGAGT  
 CCCACTCCAGAGTGGGACATGAAGGCTAGCCCTCGCAAAGGAACACGAGATCTGGCCATTGCGATAAAAA  
 AGGGAGCAGAGTCGGCACCACTGTGCTTGAGAAAAGTCAAATGGCAGCAAGATTGCTGTTGGGTGGGA  
 GGGCAGGGCCTCAGACCCAGGAGAAGGTCTGCTGCGTGTGAGGCTGCCACGAGAGGGAAGAAGGTGCAG  
 CCAGTCCAGCCAGTGCAGAAGCAGCTCCTGTCCCAGCCTCGGCTCCTTGCTAACAGCCACCACTTAGAAG  
 CCACTCAGGACAGCAAGGTGGGCACACCTGCCGGGCTTGCCTCCGAAAGCCTGGACAAAACCCATTCTACA  
 GCAAAAGGAAAGGGAGGAGCATTGCGATTCTACCACCAGCAGTTCAGCAGCCACCGCTCCTCAAGCAG  
 AAGCTAAATTACCAACCCCTGCAGAGGCTTTTATGCCAGCACAGGCCCTCAGAAGTTCGGCTCCAGAGTG  
 AGACTGGCTTTCCCCTCCACTCTAACCTGAGAACCGTATGGAGCCAGGCTGAGGACCTTGATGACAG  
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 GAAAGGAGCGGAAGTTCCTTCTTCTTCATCAGGACAGGAGCACAGCCCTGAGGAGCAGGCAGCAGAAA  
 GGACAGCAATGTTTGTCTTTCAGCTCTGAGACGGATGGCAGTAAGAAGCGGCCAGCTGACAGCTGGGTGTA  
 TTCCAGGGACCCCATCATCAGCCACAGAAGAGGAGCACTCAGTCAAAGCCACAGCCCAAGTATGGTATGC  
 CCAGACTGGAGCAAGGAGGAAGACTCTGCCTCCTCAGGACCTTCTCCTAAGGACAACCGGGCCAGAAAAC  
 CTTCTCTTACAGGTAGATTTTGTGCATCACCAAAAACCGGGTGAAGCTCAAGTCTCTGACATCAGACT  
 GGAGGCCCTTACAAGTGAGGTTCTGAGCAAGTGAAGGGCAGCTTGTATCCCCATCCCCGAAAATGGG  
 CTGTCTTTTCCACTGTCCCATGTGGCTGTTTCTGGATCCCAGACCAAGAGACAGAGTCTGCACACCAT  
 TAAGAGAAGTCAGTGAACACAGAGTGACTCACACTCCAGGAAGAGTGAACAGCAGCACTCCTTTCCAAGA  
 GGACTCTGGAGAGCAGATACAGATGTGTTCTGCAAAATGCTTCTGGACTCATGGCTCCCCTCACTATGTCC  
 CTCTGGAGACCCCTGTATGAGGACCTTTCGTCTTGGAGCAAATGGCCAGGATGGAGCTGGCTATG  
 GTTTCATGGCTGAGATTGTAGGAGGGCCAGCAGGACACACAGTCCCATCTTATGATCAAGAGGCTGC  
 TTTGCCAGTGTCTCAGCTACTGAGTGCCTATGGCTATCTTCTCTCCCCTGACAATCGGCCTAGTGGT  
 GATCTTCCAGCTCTGTCCCCTCACCCATCCACCAGCATTACCTGACAAATGGCCGGTAGAGAGGCTT  
 ACCAGACCAGAAGGCCAATACTTTCCTGAGAATCATATGGGTAGTAAGCTATATGATGACCGTGTGTA  
 AGAGACTGAAGTGGGGGCTCCCTCACATTCCCAGAAAAGCCGCTCCTCAACATACATGCCGGAGTACCC  
 TATTCTACACCTTCTCACCTCATGTACAGGAAGTAGTAATGGAGTTGGCCGCTCCTGGGCCAGGAGA  
 GAAAACATCCTACAGGGTTAGCTGCCAGGAGCTGTTTCTCTACAGATTCCAACAAGCCTCATTACAA  
 CGAGGACATCGCATGGCTCAGGCACAGGCCAATCTCAAGGTGCTTAGATTACAGACTCTCCTGTGGTCCCC  
 AGCTGTTCTTCAAGGCCTTGAAGACATATTGTCCAATTACACCGGAGCAGGCACAGCAGGTGATTATCC  
 GTGCACACAAAGAACAGCTGGATGAAATGGCTGAGCTGGACTTGAAGGAGGAGACCTTAATGACCCAGAT  
 GGATTCTAATGATTTTGAAGATTTGTGACCCAGCTGGATGAAATCATGGCTTTGAAGTCCAGGTGCATC  
 CAAAGTCTGAGAAGCCAGCTACAGCTCTACCTCACCAGCCACAGGCCCGCTGCAGCCCCGAAAGAAGTGC  
 TGGTGTCTTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_024241

**Insert Size:**

4071 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).

<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_024241.2</a> , <a href="#">NP_077203.2</a>
<b>RefSeq Size:</b>	5616 bp
<b>RefSeq ORF:</b>	4071 bp
<b>Locus ID:</b>	109242
<b>UniProt ID:</b>	<a href="#">Q6NWW5</a>
<b>Cytogenetics:</b>	4 A5
<b>Gene Summary:</b>	Microtubule-dependent motor protein that acts as a negative regulator of ciliogenesis by mediating recruitment of CCP110 to mother centriole in cycling cells, leading to restrict nucleation of cilia at centrioles. Mediates depolymerization of microtubules of centriolar origin, possibly to suppress aberrant cilia formation. Following activation by NEK2 involved in disassembly of primary cilium during G2/M phase but does not disassemble fully formed ciliary axonemes. As cilium assembly and disassembly is proposed to coexist in a dynamic equilibrium may suppress nascent cilium assembly and, potentially, ciliar re-assembly in cells that have already disassembled their cilia ensuring the completion of cilium removal in the later stages of the cell cycle (By similarity).[UniProtKB/Swiss-Prot Function]