

## Product datasheet for **MC200540**

### **Kif2a (BC006803) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kif2a (BC006803) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kif2a
Synonyms:	C530030B14Rik; Kif2; Kns2; M-kinesin
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC006803  
 GTTTCGCCCGCTGCCGCCGCTCCGGATGAGGTGATGGCAACGGCCAACCTTCGGCAAGATCCAGATCGGG  
 ATTTACGTGGAGATCAAGCGCAGCGATGGCCGAATACACCAAGCAATGGTAACATCTTTAAATGAAGATA  
 ATGAAAGTGAACGTGTGAGTGGATAGAAAATGGAGATACGAAAGGCAAAGAGATTGACTTGGAGAGCAT  
 CTTTTCACTTAACCCTGACCTTGTACCTGATGAAGATATTGAGCCAGTCCAGAACTACCTCCACCCTCG  
 TCATCCTCAAAAGTTAACAAAATTGTAAGAACCAGCGGACTGTGGCAGCTGTTAAGAATGACCCCTCCC  
 CGAGAGATAATAGAGTGGTTGGTTCAGCACGCGCACGGCTAGTCAGCTTCTGAGCAATCGTCTTCTGC  
 ACAACAGAAATGGTAGCGTTTCAGATATATCTCCAGTTCAAGCTGCAAAAAAGGAGTTTGGCCCTCCTTCA  
 CGTAGAAAATCCAATTGTGTGAAAGAAGTAGAAAAATTGCAAGAAAAACGAGAAAAAGGAGATTGCAAC  
 AGCAAGAACTTAGAGAAAAAGAGCCAGGATGTTGATGCTACAAATCCAAATTACGAAATTATGTGTAT  
 GATCAGAGACTTCAGAGGGAGCTTGATTACAGACCCCTAACACAGCAGATCCTATTGATGAACATAGG  
 ATATGTGTTTGTGAAGAAAACGACCACTCAATAAAAAAGAACTCAAATGAAAGATCTTGATGTGATCA  
 CAATCCCTAGTAAAGATGTTGTGATGGTCCACGAACCCAAACAGAAAGTAGACTTAACAAGTACTTAGA  
 AAATCAGACATTTCCGTTTGATTACGCCTTCGATGACTCAGCTCCTAATGAAATGGTTTACAGGTTTACT  
 GCTAGGCCACTAGTGAAACAATATTTGAAAGGGGCATGGCTACGTGCTTTGCTTATGGGCAGACTGGAA  
 GTGGGAAAACATACTATGGGTGGTGACTTTTCAGGAAAGAACCAGGATTGTTCTAAGGGAATTTATGC  
 ATTAGCAGCTCGCGATGTCTTTTAATGCTGAAGAAGCCAACTATAAGAACTAGAACTCAAGTATAT  
 GCAACATTTTTGAAATTTATAGTGGAAAGGTGTTTGACTTACTAAATAGGAAAACAAAATTAAGAGTAC  
 TAGAAGATGGGAAGCAGCAGGTCCAAGTGGTGGGGCTGCAGGAGCGGGAGGTGAAGTGTGTGGAGGACGT  
 GCTGAAGCTCATCGACATAGGCAACAGCTGCAGAACATCTGGCCAAACATCTGCAATGCACATTCATCT  
 CGGAGCCATGCAGTGTCCAGATCATTCTAAGAAGGAAGGGGAACTACATGGTAAATTTTCTCATTG  
 ACCTGGCTGGGAACGAAAGAGGAGCTGATACATCCAGTGCAGACAGGCAAACCAGGCTTGAAGGTGCTGA  
 AATTAATAAAAAGCCTTTTAGCACTCAAGGAGTGCATCCGAGCCTTAGGTAGAAAACAAACCCCATACGCC  
 TTTCCGAGCGAGCAAACCTCACTCAGGTGCTGAGAGATTCTTCATAGGTGAAAATTCCTGACCTGCATGA  
 TTGCCACAATCTCTCAGGAATGGCATCTGTGAAAATACTCTTAATACGTTAAGATATGCAAAATAGGGT  
 GAAAGAATTGACTGTAAATCCAGCTGCTGCTGGCGATGTCATCCAATAATGCACCATCCACCGAGCCAG  
 ATTGATGACTTAGAGACACAGTGGGGTGTGGGAGTTCTCCTCAGAGAGATGATCTAAAACCTTCTGTG  
 AACAAAATGAAGAAGAAGTTTCTCCACAGCTGTTCACTTTCCATGAAGCTGTCTCCAGATGGTAGAGAT  
 GGAAGAGCAGGTTGTGGAAGATCATAGGCGAGTGTCCAGGAATCCATTCGCTGGATAGAAGATGAAAAG  
 GCTCTCCTAGAGATGACTGAAGAAGTAGACTATGATGTAGACTCATATGCTACACAACCTGAAGCTATTC  
 TTGAGCAAAAAATAGACATTTTAACTGAGTTACGAGATAAAGTGAATCTTTTCGCGCAGCGCTACAAGA  
 AGAAGAGCAAGCAAGCAAGCAAAATTAACCCCAAGAGGCCCGAGCCCTTAAGTTGGCGTTTGCTACTAA  
 AGGATCCCAAGATCCCAATACTGTAACAACGGTGGTCCGACTGTAAAGGCCACTTGAACGTTTTTGAA  
 ATCTTTTTTTTTTTTTTAAACGTTTTTTGAAATCTTAAGTGTGTGGAAAATATCTTGTCTTCATCTGAA  
 TGACATTTCAATTTGTGAAACACTCCTTTGTGCAAAAATGCTTCTAGACCAAGAGGCACAACATAATA  
 TTCGGACTAGTGAAGTATTTGTTTCATTTGCCAAAATAAATAGTGATTGCTTTTGG

**Restriction Sites:** RsrII-NotI

**ACCN:** BC006803

**Insert Size:** 2118 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).

**Components:** 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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">BC006803</a> , <a href="#">AAH06803</a>
<b>RefSeq Size:</b>	2437 bp
<b>RefSeq ORF:</b>	2118 bp
<b>Locus ID:</b>	16563
<b>Cytogenetics:</b>	13 D2.1
<b>Gene Summary:</b>	Plus end-directed microtubule-dependent motor required for normal brain development. May regulate microtubule dynamics during axonal growth. Required for normal progression through mitosis. Required for normal congress of chromosomes at the metaphase plate. Required for normal spindle dynamics during mitosis. Promotes spindle turnover. Implicated in formation of bipolar mitotic spindles. Has microtubule depolymerization activity (By similarity).[UniProtKB/Swiss-Prot Function]