

## Product datasheet for **MC220731**

### **Kifap3 (BC049100) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kifap3 (BC049100) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kifap3
Synonyms:	KAP3, SMAP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >BC049100  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAAGCGGAGGACGCCAGATACCTCAAAGGAAAGTTAAAGGGGGAATATTGATGTACATCCATCAG  
 AAAAAGCTCTCATTGTTCAAGTATGAAGTGAAGCTACCATTCTTGAGAAATGGGAGATCCCATGTTGGG  
 AGAACGAAAGGAATGCCAAAAATCATCCGCTGAAGAGTCTCAATGCTAACACAGACATCACCTCTCTG  
 GCCCGAAGGTGGTTGAGGAATGAAGCTCATCCATCCCTCAAAGCTAAGCGAGGTGGAGCAGCTTTTGT  
 ACTATCTACAGAACC GCCGAGACTATTGCCGGGAAAAGAAAAAAGAAAAATCAAGCAAGCTAAAGA  
 CCCACCTCTTTGAAGGGATGGAGATTGACGAAGTGGCCAACATTAATGACATGGACGAATACATTGAG  
 CTCTTGATGAAGACATCCAGATAAGGTTCCGGGTTCTGCCTTGATCCTACAGCTTGCTCGAAATCCTG  
 ATAACTGGAAGAGCTATTATTAATGAACTGCCCTGGGTGCGCTAGCAAGAGTCTGAGAGAAGACTG  
 GAAACAAAGTGTGAGTTAGCTACAACATCATTTATATCTTTCTTTTCTAGCTTTTCTCATTTT  
 CATGGACTCATCACTCACTACAAAATTGGAGCACTGTGTATGAATATCATTGATCATGAGTTAAAAAGAC  
 ACGAGCTTTGGCAAGAAGAACTCTAAGAAGAAGAAAGCTGTTGATGAAGACCTTGAAAATCAAACATT  
 GAGAAAGGATTATGACAAAACCTTTAAAAATACCAAGGACTTGTGGTAAAAAAGAGCAGCTACTGAGA  
 GTTGCTCTCTACTTGCTTTTGAATCTTGCGGAGGACACACGTACAGAAGTGAAGATGAGGAACAAGAATA  
 TCGTTCACATGTTGGTGAAGGCTCTTGATCGGGACAATTTGAGCTGCTGATTCTGGTCTGTCTATTCTT  
 AAAGAACTGAGTATTTTATGGAGAATAAAAAATGACATGGTAGAGATGGATATTGTTGAAAACTGGTA  
 AAAATGATACCCTGTGAGCATGAAGATCTCCTGAATATCACCTCCGGCTCCTCTAAACCTCTCGTTTG  
 ACACAGGCTGAGGAACAAGATGGTACAAGTTGGGCTTCTCCAAAGCTCACTGCACCTCTGGCAATGA  
 AAACACAAAACAATAGCAATGTGTGTGCTTTACCATATAAGCATGGATGACCGCTTAAAGTCAATGTTT  
 GCATATACTGACTGCATACCACAGTTAATGAAGATGCTCTTTGAATGTTGAGATGAACGAATTGACTTGG  
 AGCTGATTTCTTTCTGCATTAATCTTGCTGCTAACAAGAGAAATGTCCAGCTCATCTGTGAAGGAAATGG  
 GCTGAAAATGCTCATGAAAAGAGCTCTGAAGCTCAAGGACCCACTGCTGATGAAGATGATCAGAAACATC  
 TCCCAGCATGATGGGCCACTAAGAAATTTGTTTATTGATTATGTTGGGACCTTGACGCCAGATTTCCA  
 GTGATGAAGAGGAGGAGTTTGAATCGAGTGTGGGAACGCTGGCAAACTGACAATCCCAGATCTAGA  
 CTGGGAACTGGTCTGAAGGAGTACAAGCTGGTCCATTCCTCAAAGACAACTAAAGCCAGGTGCCGCA  
 GAGGATGACCTTGTGTTTGAAGTGGTTATCATGATTGGGACGGTGTCTATGGATGACTCTTGTGCTGCC  
 TACTGGCCAAATCTGGGATAATCCAGCCCTCATCGAGCTGCTGAACGCTCAACAAGAAGATGATGAATT  
 TGTGTGCAAAATATCTATGTCTTCTACCAGATGGTGTCCATCAGGCCACAAGAGATGTCATAATCAAG  
 GAAACACAAGCTCCAGCATATCTCATTGACCTGATGCATGATAAAAAATAATGAAATCCGGAAAGTCTGTG  
 ATAACACATTAGATATCATCGCAGAGTATGATGAAGAGTGGGCCAAGAAAATTCAGAGTGAGAAGTTTCG  
 CTGGCATAACTCTCAGTGGCTGGAGATGGTGGAGAGCCGTGAGCTGGATGAGAGCGAGCAGTACTTGTAT  
 GGTGATGATCGCATTGAGCCGTACATCCATGAAGGGGACATTCTTGAAGGCCTGACCTTTTCTACAAC  
 CAGACGGACTAATTACCTCTGAAGGAGCCATAAGTCCAGACTTCTCAATGATTTTACCTCCAGAATGG  
 AGATGTGGTGGGCAACACGCATTTCTGGCAGCCTCGGGATGGATGGCTTCGGGCAGCCACTGGGGATC  
 CTTGGACGCTCTGCCACCGCGTATGATTCCGCCCTGACGAACCTTACTACTACAGCTTTGGGTCTCGAT  
 AA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** BC049100  
**Insert Size:** 2382 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="#">BC049100</a> , <a href="#">AAH49100</a>
<b>RefSeq Size:</b>	3952 bp
<b>RefSeq ORF:</b>	2381 bp
<b>Locus ID:</b>	16579
<b>Cytogenetics:</b>	1 H2.1
<b>Gene Summary:</b>	The protein encoded by this gene is the non-motor subunit of kinesin-2 complex, and forms a heterotrimer with two members of the kinesin superfamily of proteins that together form a microtubule plus-end directed translocator that plays an important role in intracellular transport, mitosis, and cell-cell adhesion. This protein contains multiple armadillo repeats involved in protein binding, and may serve as an adaptor to regulate binding of cargo with the motor proteins. Conditional disruption of this gene in mouse neural precursor cells caused a tumor-like phenotype and defective organization of the neuroepithelium thought to be the result of altered N-cadherin subcellular localization. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2015]