

## Product datasheet for **MC220315**

### **Kifc5b (NM\_053173) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kifc5b (NM_053173) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kifc5b
Synonyms:	Hset; Kifc5a; KNSL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220315 representing NM\_053173  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGTGCAGGCGCAGAGAAAGGAAGGAAGGAAGGAAGGAACGTAGAACTGAAGCGGCCCTGGTCA  
 AGTCCTCCTCCGACTGCCCTGTGAGCAAGCAGCCTCAAGAGGGTCTGACCAGATGGAGGATGCCTT  
 GGAGCCTGCAAAGAAACGGACACGAGTCATGGGTGCAAGTACAAAGTTGACACATCCCGTCCCAGAGGA  
 CCACTCCTCAGCACAGTGTACAGACCCAGGGCCACAATGCAGCTCAGAAAGGCCCTAAGAAGACAGGAC  
 CTGGTGGGTGCTCTGCTGTTGGTACAGTGTGAGGAGCCAGAAGCCAGCTCCCGTGTCTCTGCGAAGCC  
 TGGCACATCCACTGCTCTGTGGTGGTAGGAAGAGAGCTGGCAAACGCCCTGCCTGGGACCTGAAGGGC  
 CAGTTGTGTGACCTCAATGAAGAGTTGAAACGCTATCGGGAGAAGACTGAAACGCTGGAAGTGGAGAACC  
 GGGGTCTTCGGGAGCAACTCAGAGAGTCCAGGAGCAGGCCACGACCCTGGGACAGAGCGGAACACCCCT  
 GGAAGGGGAGCTGGCCAGTGTACGACGCCGAGCTGAGCAGGACCAGCAGAGGCTGGAGAGCTGAGTGCC  
 CGTGCTTCGGAGCTGGAGGAATGTCTGGGTACCGGAAAGGCTGCTTCAGGAGCTTCAGGGAGAGCGGC  
 TGCAATTGCAGGAGGAGCGGAGCACACTGAGCACCAACTGGAGGAGCAGGAGAGGAGGTTTCAGGCCAC  
 AGAAGCAGCTCTGTCAAGCAGCCAAGAAGAGGTGGTGTGTCTTCGGCAGAAGACTGAAGCCAGGTGACC  
 TTAGTGGCTGAGCAAGGAGACCGGCTCTATGGTTAGAGATGGAGCGGCGGCGACTCCACAACAGCTGC  
 AGGAAGTGAAGGGCAATATCCGGGTGTTCTGCCGCTGCGCCCTGTCTCGAAGGGGAATCCACTCCATC  
 TCCTGGCTTCCTGTGTTTCTCCTGGCCCTGCTGGACCTCTGATCGCCGACGGGCTTAGCCTCTCA  
 CGATCTGATGATCGGCGCTCCACCCTGACTGGGCCCCGGCACCCACTGTCCGCATGATTTCTCCTTTG  
 ATCGGGTGTTCGGCCGGAAGCAAGCAGGAGGAAGTGTGGAGAGATCGCCATGCTTGTCCAGTCAGC  
 ACTAGATGGCTACCCCTGTGTGCATTTTTGCCTATGGACAGACAGGCAAGGCAAGACCTTCACTATGGAA  
 GGAGGGCTAGGGGAGACCCCAATTGGCAGGGCTGATCCCTCGGGCATGCGGCATCTGTTCTCTGTGG  
 CCCAGGAGATGAGCGGCCAGGGCTGGACATACAGTTTTGTGGCAGTTACGTAGAGATCTACAATGAGAC  
 CGTTCGAGACCTGCTAGCTACTGGGCCCGCAAGGGACAAGGGGGCGAGTGCAGATCCGTGGGCAAGC  
 CCAGGGAGTGAAGAGCTTACTGTACCAATGCCCGCTATGTCCCTGTTTCTGTGAGAAAGAGGTGGAGG  
 CCCTGCTCCATTTGGCTCACCAGAACGGGCTGTGGCCCACTGCCAGAATAAGAGATCATCACGAG  
 TCATAGTGTGTTCCAGTGCAGATTTCTGGAGAGCATGCAGCCCGGGCCTGCAGTGTGGCGCTCCCTC  
 AACCTTGTGGACCTAGCTGGGAGTGAAGCGCTAGACCCTGGCTTACCCTAGGCCCTGGGAGCGTGATC  
 GTCTTCGGGAGACACAGGCCATTAACAGCAGTCTGTCTACATTGGGACTGGTCATATGGCCCTGAGCAA  
 TAAGGAGTCCCACGTGCCTTACCGAAACAGCAAGCTCACCTACTTGTGCAGAACTCTCTGGGTGGCAGT  
 GCCAAGATGCTTATGTTTGTGAATTTCTCCTCTGGAAGAGAATGTCTCCGAGTCTCTGAATTCCTAC  
 GCTTTGCTTCAAGGTGAACAGTGTGTCATTGGTACTGCTCAGGCTAATAAGAAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_053173
- Insert Size:** 2019 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_053173.2](#), [NP\\_444403.2](#)

**RefSeq Size:** 2627 bp

**RefSeq ORF:** 2019 bp

**Locus ID:** 16580

**UniProt ID:** [Q9QWT9](#)

**Cytogenetics:** 17 A3.3

**Gene Summary:** Minus end-directed microtubule-dependent motor required for bipolar spindle formation (PubMed:16638812). May contribute to movement of early endocytic vesicles (PubMed:17360972). Regulates cilium formation and structure (PubMed:23807208). [UniProtKB/Swiss-Prot Function]