

## Product datasheet for **MG209950**

### **Kifc1 (BC003753) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kifc1 (BC003753) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kifc1
Synonyms:	HSET, KNSL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209950 representing BC003753  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACGTGCAGGCGCAGAGGCCACCTTTGTTGGAAGTGAAGAGGAACGTAGAAGTGAAGGCAGCCCTGG  
 TGAAGTCCTCCTCCCGAGTGCCCTGTAGCAAGCAGGCTCAAGAGGGGTCTGACCAGATGGAGGATGC  
 CTTGGAGCCTGCAAAGAAACGGACACGAGTCATGGGTGCAGTGACCAAAGTTGACACATCCCGTCCAGAG  
 GGACCACTCCTCAGCACAGTGTACAGACCCAGGGCCATACTGCAGCTCAGAAAGGCCCTAAGAAGACAG  
 GACCTCGTGGGTGCTCTGCTGTTGGTACAGTGTGAGGAGCCAGAAGCCAGCTCCCGTCTCTGCCCA  
 GAAGCCTGGCACATCCACTGCTCTGTGGTGGTAGGGAAGAGAGCTGGCAAACGCCCTGCCTGGGACCTG  
 AAGGGCCAGTTGTGTGACCTCAATGAAGAGTTGAAACGCTATCGGGAGAAGACTCAAACGCTGGAAGTGG  
 AGAACCGGGGCTTCGGGAGCAACTCAGAGAGTCCAGGAGCAGGCCACGACCCTGGGGACAGAGCGGAA  
 CACCCTGGAAGGGGAGCTGGCCAGTGTACGCAGCCGAGCTGAGCAGGACCAGCAGAGGCTGGAGACGCTG  
 AGTGCCCGTGTCTTGGAGCTGGAGGAATGTCTGGTACCAGGAAAGGCTGCTTACAGGAGCTTACAGGGAG  
 AGCGGCTGCAATTGCAGGAAGAGCGGAGCACACTGAGCACCCAGCTGGAGGAGCAGAAGAGGAGGTTTCA  
 GGCCACAGAAGCAGCTCTGTCAAGCAGCCAAGAAGAGGTGGTGTGTCTTCGGCAGAAGACTGAAGCCAG  
 GTGACCTTACTGGCTGAGCAAGGAGACCGGCTCTATGGTTAGAGATGGAGCGGCGGCGACTCCACAACC  
 AGCTGCAGGAAGTGAAGGGCAATATCCGGGTGTTCTGCCGTGTGCGCCCTGTCTCGCAGGGGAATCCAC  
 TCCATCTCCTGGCTTCTCGTGTTCCTCCTGGCCCTGCTGGACCCTCTGATCCCCGACGGGCTTAGC  
 CTCTCACGATCTGATGATCGGCGCTCCACCCTGACTGGGGCCCCGGCCCCACTGTCCGCATGATTTCT  
 CCTTTGATCGGGTGTCCCGCCGGGAAGCAAGCAGGAGGAAGTGTGGAGGATCGCCATGCTTGTCCA  
 GTCAGCACTGGATGGCTACCCTGTGTGCAATTTTGCCTATGGACAGACAGGCAGTGGCAAGACCTTCACT  
 ATGGAAGGAGGGCCTAGGGGAGACCCCCAATTGGAAGGGCTGATCCCTCGGGCCATGCGGCATCTGTTCT  
 CTGTGGCCAGGAGATGAGCGGCCAGGGCTGGACATACAGTTTTGTGGCGAGTTACGTAGAGATCTACAA  
 TGAGACCGTTCGAGACCTGCTAGCTACTGGGCCCGCAAGGGACAAGGGGCGAGTGTGAGATCCGTGCG  
 GCAAGCCAGGGAGTGGAGGCTTACTGTACCAATGCCCGCTATGTCCCTGTTTCTGTGAGAAAGAGG  
 TGGAGGCCCTGCTCCATTTGGCTCATCAGAACCGGGCTGTGGCCCACTGCCAAAATAAGAGATCATC  
 ACGCAGTCATAGTGTGCCAGTGCAGATTTCTGGAGAGCATGCAGCTCGGGCCTGCAGTGTGGCGCT  
 CCCCTCAACCTTGTGGACCTAGCTGGGAGTGGAGGCTAGACCCTGGCTTACACCTAGGCCCTGGGAGC  
 GTGATCGTCTTCGGGAGACAGGCCATTAACAGCAGTCTGTCTACACTGGGACTGGTCATAATGGCCCT  
 GAGCAATAAGGAGTCCCACGTGCCTTACCGAAACAGCAAGCTCACCTACTTGCTGCAGAAGTCTCTGGGT  
 GGCAGTGCCAAGATGCTTATGTTTGTGAATATTTCTCCTCTGGAAGAGAAATGTCTCCGAGTCTCTGAAT  
 CACTACGCTTTGCTTCAAGGTGAACAGTGTGTCATTGGTACTGCTCAGGCTAATAAGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG209950 representing BC003753  
 Red=Cloning site Green=Tags(s)

```
MDVQAQRPLLEVKRNVELKAALVKSSSRVPLSASRLKRGPDQMEDALEPAKKRTRVMGAVTKVDTSRPR
GPLLSTVSQTQGHATAAQKGPCKTGPRGCSAVGTVLRVRSQKPAAPAQAQKPGTSTAPVVVVKRAGKRP
AWDLKGQLCDLNEELKRYREKTQTLELENRGLREQLREVQEQATTLGTERNTLEGELASVRSRAEQDQ
RLETL SARVLELEEECLGTRERLLQELQGERLQLQEERSTLSTQLEEQRFRFQATEAALSSSQEEVV
CLRQKTEAQVTLLEAEQGDRLYGLEMERRRLHNQLQELKGNIRVFCRVRPVLAGESTPSPGFLVFP
PGPAGPSDPPTGLSLSRSDRRSTLTGAPAPTVRHDFSFDRVFPPGSKQEEVFEEIAMLVQSALD
GYPVCIFAYGQTGSGKTFTMEGGPRGDPQLEGLIPRAMRHLFSVAQEMSGQGWYTSFVASYVEIYNET
VRDLLATGPRKGQGGCEIIRASPGSEELTVTNARYVPVSCEKEVEALLHLAHQNRAVAHTAQNKR
SSRSVSVFQLQISGEHAARGLQCGA PLNLVDLAGSERLDPGLHLGPGERDRLRETQAINSSL
STLGLVIMALSNKESHVPYRNSKLTYLQNSLG GSAKMLMFVNISPLEENVSESLNSLRFASKV
NQCVIGTAQANKK
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC003753

**ORF Size:** 2022 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:** [BC003753](#), [AAH03753](#)

**RefSeq Size:** 2263 bp

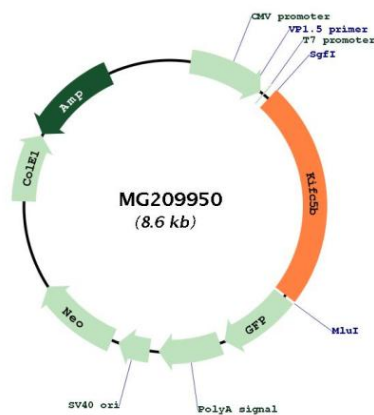
**RefSeq ORF:** 2024 bp

**Locus ID:** 16580

**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]

## Product images:



Circular map for MG209950