

Product datasheet for **MG225954**

Kifc5b (NM_053173) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kifc5b (NM_053173) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kifc5b
Synonyms:	Hset; Kifc5a; KNSL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MG225954 representing NM_053173
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGTGCAGGCGCAGAGAAAGGAAGGAAGGAAGGAAGGAACGTAGAACTGAAGCGGCCCTGGTCA
 AGTCCCTCCTCCCGACTGCCCTGTGAGCAAGCAGCCTCAAGAGGGTCTGACCAGATGGAGGATGCCTT
 GGAGCCTGCAAAGAAACGGACACGAGTCATGGGTGCAAGTACAAAGTTGACACATCCCCTCCAGAGGA
 CCACTCCTCAGCACAGTGTACAGACCCAGGGCCACAATGCAGCTCAGAAAGGCCCTAAGAAGACAGGAC
 CTGGTGGGTGCTCTGCTGTTGGTACAGTGTGAGGAGCCAGAAGCCAGCTCCCCTGCTCCTGCGAAGCC
 TGGCACATCCACTGCTCCTGTGGTGGTAGGAAGAGAGCTGGCAAACGCCCTGCCTGGGACCTGAAGGGC
 CAGTTGTGTGACCTCAATGAAGAGTTGAAACGCTATCGGGAGAAGACTGAAACGCTGGAAGTGGAGAACC
 GGGGTCTTCGGGAGCAACTCAGAGAGTCCAGGAGCAGGCCACGACCCTGGGACAGAGCGGAACACCCCT
 GGAAGGGGAGCTGGCCAGTGTACGACAGCCGAGCTGAGCAGGACCAGCAGAGGCTGGAGACGCTGAGTGCC
 CGTGCTTCGGAGCTGGAGGAATGCTGGGTACCGGAAAGGCTGCTTCAGGAGCTTCAGGGAGAGCGGC
 TGCAATTGCAGGAGGAGCGGAGCACACTGAGCACCAACTGGAGGAGCAGGAGAGAGGTTTCAGGCCAC
 AGAAGCAGCTCTGTCAAGCAGCCAAGAAGAGGTGGTGTGTCTTCGGCAGAAGACTGAAGCCAGGTGACC
 TTAGTGGCTGAGCAAGGAGACCGGCTCTATGGGTTAGAGATGGAGCGGCGGCGACTCCACAACAGCTGC
 AGGAAGTGAAGGGCAATATCCGGGTGTTCTGCCGCTGCGCCCTGTCTCGAAGGGGAATCCACTCCATC
 TCCTGGCTTCCTGTTTCTCCTGGCCCTGCTGGACCTCTGATCGCCGACGGGCTTAGCCTCTCA
 CGATCTGATGATCGGCGCTCCACCCTGACTGGGCCCCGGCACCCACTGTCGCCATGATTTCTCCTTTG
 ATCGGGTGTCCCGCCGGGAAGCAAGCAGGAGGAAGTGTGGAGAGATCGCCATGCTTGTCCAGTCAGC
 ACTAGATGGCTACCCTGTGTGCATTTTGCCTATGGACAGACAGGCAGTGGCAAGACCTTCACTATGGAA
 GGAGGGCCTAGGGGAGACCCCAATTGGCAGGGCTGATCCCTCGGGCCATGCGGCATCTGTTCTCTGTGG
 CCCAGGAGATGAGCGGCCAGGGCTGGACATACAGTTTTGTGGCGAGTTACGTAGAGATCTACAATGAGAC
 CGTTCGAGACCTGCTAGCTACTGGGCCCGCAAGGGACAAGGGGGCGAGTGCAGATCCGTCGGGCAAGC
 CCAGGGAGTGAGGAGCTTACTGTCACCAATGCCCGCTATGTCCCTGTTTCTGTGAGAAAGAGGTGGAGG
 CCCTGCTCCATTTGGCTCACCAGAACCGGGCTGTGGCCACACTGCCAGAATAAGAGATCATCACGCAG
 TCATAGTGTGTTCCAGCTGCAGATTTCTGGAGAGCATGCAGCCCGGGCCTGCAGTGTGGCGCTCCCCTC
 AACCTTGTGGACCTAGCTGGGAGTGAGCGGCTAGACCCTGGCTTACCCTAGGCCCTGGGAGCGTGATC
 GTCTTCGGGAGACACAGGCCATTAACAGCAGTCTGTCTACATTGGGACTGGTCATAATGGCCTGAGCAA
 TAAGGAGTCCCACGTGCCTTACCGAAACAGCAAGCTCACCTACTTGTGCAGAACTCTCTGGGTGGCAGT
 GCCAAGATGCTTATGTTTGTGAATTTTCTCCTCTGGAAGAGAATGTCTCCGAGTCTCTGAATTCCTAC
 GCTTTGCTTCAAGGTGAACAGTGTGTCATTGGTACTGCTCAGGCTAATAAGAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG225954 representing NM_053173
Red=Cloning site Green=Tags(s)

```
MDVQAQRKREGKRNVELKAALVKSSSRLPLSASSLKRGPDMEDALEPAKKRTRVMGAVTKVDTSRPRG
PLLSTVSQTQGHNAAQKGPKKTGPGGCSAVGTVLRSQKPAPAAPAKPGTSTAPVVVGKRAGKRPADLKG
QLCDLNEELKRYREKTETLELENRGLREQLREVQEATLGTERTNLEGEASVRSRAEQDQORLETLA
RVLELEECLGTRERLLQELQGERLQLQEERSTLSTQLEEQERRFQATEAALSSSQEEVVCLRQKTEAQT
LLAEQGDRLYGLEMERRRLHNQLQELKGNIRVFCRVRPVLEGESTPSPGFLVFPGPAGPSDRPTGLSLS
RSDRRRSTLTGAPAPTVRHDFSFRVFPFGSKQEVEFEEIAMLVQSALDGYVPCIFAYGQTGSGKFTTME
GGPRGDPQLAGLIPRAMRHLSVAQEMSGQGWYTSFVASYVEIYNETVRDLLATGPRKGQGGEGEIRRAS
PGSEELTVTNARYVPVSCEKEVEALLHLAHQNRVAHTAQNKRSSRSHSVFQLQISGEHAARGLQCGAPL
NLVDLAGSERLDPLPLGGERDRLRETQAINSSLSTLGLVIMALSNKESHVYRNSKLYLLQNSLGGG
AKMLMFVNIISPLEENVSESLNSLRFASKVYNQCVIGTAQANKK
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053173

ORF Size: 2016 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: [NM_053173.2](#), [NP_444403.2](#)

RefSeq Size: 2627 bp

RefSeq ORF: 2019 bp

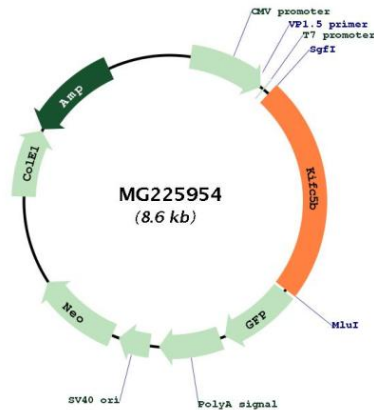
Locus ID: 16580

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]

Product images:



Circular map for MG225954