

Product datasheet for **RG215326**

KIFC1 (NM_002263) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIFC1 (NM_002263) Human 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:

>RG215326 representing NM_002263
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCCGCAGAGGTCCCCCTATTGGAAGTAAAGGGGAACATAGAAGTGAAGAGACCTCTGATTAAGG
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TCCCTCACTACAGTGCCACAGACACAAGGCCAGACCACAGCTCAAAAAGTTTCCAAGAAGACAGGACCCC
GGTGTTCACAGCTATTGCCACAGGGTTGAAGAACCAGAAGCCAGTTCCTGCTGTTCTGTCCAGAAGTC
TGGCACATCAGGTGTTCCCTCCATGGCAGGAGGGAAGAAACCCAGCAAACGTCCAGCCTGGGACTTAAAG
GGTCAGTTATGTGACCTAAATGCAGAACTAAAACGGTGCCGTGAGAGGACTCAAACGTTGGACCAAGAGA
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ACTGGAGGGGCATTTAGCCAAGGTACAGGCCAGGCTGAGCAGGGCCAACAGGAGCTGAAGAACTTGCCT
GCTTGTGTCTGGAGCTGGAAGAGCGGCTGAGCACGCAGGAGGGCTTGGTCAAGAGCTTCAGAAAAAC
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TCCCGTCTGACGAGCGGCTGGGACCTGAGTGGGGCACCAGTCCCCACCTCGCCATGATTTTTCT
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GGGCCAGGGAGTGAAGGCTCACTGTACCAATGCTCGATATGTCCTGTCTCCTGTGAGAAAGAAGTGG
ACGCCCTGCTTCACTGGCCCGCCAGAATCGGGCTGTGGCCCGCACAGCCAGAATGAACGGTCATCAG
CAGCCACAGTGTATTCCAGCTACAGATTTCTGGGAGCACTCCAGCCGAGCCTGCAGTGTGGGGCCCC
CTCAGTCTTGTGACCTGGCCGGGAGTGAAGGACTTGACCCGGCTTAGCCCTCGGCCCGGGAGCGGG
AACGCCTTCGGGAAACACAGGCCATTAACAGCAGCCTGTCCACGCTGGGGCTGGTTATCATGGCCCTGAG
CAACAAGGAGTCCCACGTGCCTTACCGAACAGCAAAGTACCTACCTGTGCAGAACTCTCTGGGTGGT
AGTGCTAAGATGCTCATGTTTGTGAACATTTCTCCACTGGAAGAGAACGTCTCCGAGTCCCTCAACTCTC
TACGCTTTGCCTCAAGGTGAACAGTGTGTTATTGGTACTGCTCAGGCCAACAGGAAG

ACGCGTACGCGGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG215326 representing NM_002263
Red=Cloning site Green=Tags(s)

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MDPQRSPLLEVKGNIELKRPLIKAPSQLPLSGSRLKRRPDQMEDGLEPEKKRTRGLGATTKITTSHPRPV
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GQLCDLNAELKRCRERTQTLDQENQQLDQDLRDAQQVKALGTERTTLEGLHAKVQAQAEQGQELKNLR
ACVLELEERLSTQEGLVQELQKKQVELQEERRGLMSQLEEKERRLQTSEAAALSSSQAEVASLRQETVAQA
ALLTEREERLHGLEMERRRLHNQLQELKGNIRVFCRVRPVLPGEPTPPPGLLLFPSGPGGSDPPTRLSL
SRSDERRGTL SGAPAPPRHDFSFDRVFPFGSGQDEVFEEIAMLVQSALDGYVPCIFAYGQTGSGKTFM
EGGPGGDPQLEGLIPRALRHLFSAQELSGQGWYTSFVASYVEIYNETVRDLLATGTRKGQGGECEIRRA
GPGSEELTVTNARYVPVSCEKEVDALLHLARQNRVARTAQNERSRSRSHSVFQLQISGEHSSRGLQCGAP
LSLVDLAGSERLDPLGALGPPERERLRETQAINSSLSTLGLVIMALSNKESHVPYRNSKLTYLLQNSLGG
SAKMLMFVNISPLEENVSESLNSLRFASKVNQCIVGTAQANRK
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002263

ORF Size: 2019 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_002263.2](#), [NP_002254.1](#)

RefSeq Size: 2391 bp

RefSeq ORF: 2022 bp

Locus ID: 3833

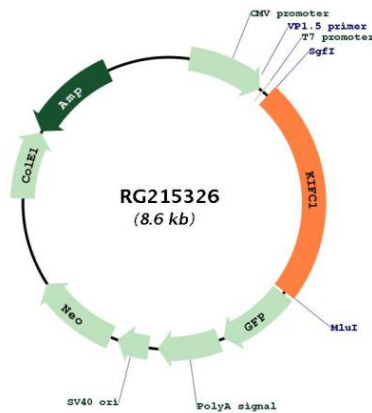
UniProt ID: [Q9BW19](#)

Cytogenetics: 6p21.32

Protein Families: Druggable Genome

Gene Summary: Minus end-directed microtubule-dependent motor required for bipolar spindle formation (PubMed:15843429). May contribute to movement of early endocytic vesicles (By similarity). Regulates cilium formation and structure (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG215326