

Product datasheet for **RG207433**

KIF2B (NM_032559) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF2B (NM_032559) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIF2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207433 representing NM_032559
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAGCCAGTTCTGCCTCCCTGAATCCCCATGTCTCTCGCCCCTGAAACCCTTGAAGCCACATTTCCG
 GAGACATCCAAGAGGGCATCTACGTGGCGATCCAGCGCAGTGACAAGCGGATCCACCTCGCTGTGGTCAC
 GGAGATCAACAGAGAAAACTATTGGGTCACGGTAGAGTGGGTGGAGAAAGCAGTCAAAAAAGGCAAGAAG
 ATTGACCTGGAGACCATACTCCTGCTGAATCCAGCTCTGGACTCTGCTGAACACCCCATGCCGCCCCCGC
 CCTTATCCCCCTTGGCTCTGGCGCCCTCTTCGGCCATCAGGGACCAGCGTACCGCCACGAAATGGGTTGC
 GATGATCCCCAGAAAAACCAACAGCCTCAGGGGACAGCCTGGATGTGAGGGTCCCCAGCAAACCTTGT
 CTGATGAAGCAGAAAAAGTCTCCCTGCCTCTGGGAAATCCAGAACTGCAGGAGCAGCGGAAAAAGCGCA
 GGCGGCTGCAGCAGGAGATCCGAGCTAGACGCGCCCTCGATGTCAATACCAGAAACCCCACTACGAAAT
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 GAACATCGCATCTGCGTCTGCGTGAGGAAGCGGCCTCTCAACCAGCGAGAGACAACCTTGAAGGACCTGG
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 CATTATGCTCTGGTGGCACAGGATGTCTTTCTCCTGCTCAGAACTCCACATATGAGAAGCTGGACCTC
 AAAGCTATGGGACATTTTTTGGATTTATGGGGCAAGGTGTATGATTTGTTGAACTGGAAGAAGAAGC
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 AGGGGCAGAGATTAACAAGAGTCTTCTAGCCCTCAAAGAATGTATTCTGGCTTTGGGTGAGAACAAGCCT
 CACACCCATTAGAGCCAGCAAACCTCACACTGGTGTCCGGGACTCCTTTATAGGCCAGAACTCCTCCA
 CTTGCATGATTGCTACCATCTCTCGGGGATGACCTCTTGTGAAAACACTCTCAACACTTAAGATATGC
 AAACAGAGTAAAAAATTAATGTAGATGTAAGGCCCTACCATCGTGGCCACTATCCGATTGGACATGAG
 GCACCAAGGATGTTAAAAAGTACATCGGAAATTCAGAAATGTCCCTTCAGAGGGATGAATTTATAAAA
 TACCTTATGTACAGAGTGAGGAGCAGAAAGAGATTGAAGAGGTTGAAACATTACCCACTCTGTTAGGGAA
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 CACCATGATATTGATTTTTGCATTGCCCGTCTTTGTCCATTTTGGAGCAGAAAATTGATGCTCTGACCC
 AGATCCAAAAGAACTGAAATTATTACTAGCTGACCTCCACGTGAAGAGCAAGGTAGAG

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG207433 representing NM_032559
Red=Cloning site Green=Tags(s)

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MASQFCLPESPCLSPLKPLKPHFGDIQEGIYVAIQRS DKRIHLAVVTEINRENYWVTVEVVEKAVKKGKK
IDLETILLNPA LDSA EHPMP PPLSPLALAPSSAIRDQRTATKWVAMIPQKNQTASGDSL DVRVPSKPC
LMKQKSPCLWEIQKLQE QREKRRRLQQEIRARRALDVNTRNP NYEIMHMIEEYRRHL DSSKISVLEPPQ
EHRICVCRKRPLNQRETT LKDLDIITVPSDNVVMVHESKQKV DLTRYLQNTFCFDHAFDDKASNELVY
QFTAQPLVESIFRKG MATCFAYGQTGSGKTYTMGGDFSGTAQDCSKGIYALVAQDVFL LLRNSTYEKLDL
KVYGTFF EYGGKYVDLLNWK KKLQVLEDGNQIQV VGLQEKEVCCVEEVLNLVEIGNSCRTSRQTSVNA
HSSRSHAVFQIILKSGGIMHGKFS LVDLAGNERGADTTKASRKRQLEGA EINKSLLALKECICALGQNKP
HTPFRASKLTLVLRDSF IGQNSSTCM IATISPGMTSCENTLNTLRYANRVK KLNVDVPRYPHRGHYPIGHE
APRMLKSHIGNSEMSLQRDEF IKIPYVQSEEQKEIEEVETLPTLLGKDTTISGKGSSQWLENIQERAGGV
HHDIDFCIARSLSILEQKIDALTEIQK LKLLADLHV KSKVE
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032559

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_032559.3](#), [NP_115948.3](#)

RefSeq Size: 2334 bp

RefSeq ORF: 2022 bp

Locus ID: 84643

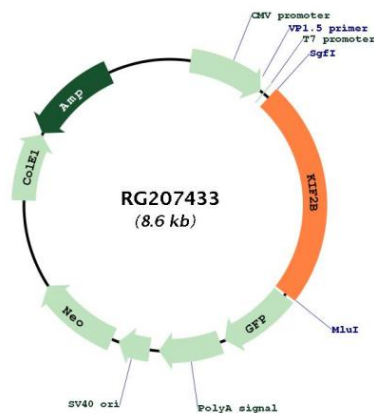
UniProt ID: [Q8N4N8](#)

Cytogenetics: 17q22

Protein Families: Druggable Genome

Gene Summary: Plus end-directed microtubule-dependent motor required for spindle assembly and chromosome movement. Has microtubule depolymerization activity (PubMed:17538014). Plays a role in chromosome congression (PubMed:23891108).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207433