

Product datasheet for **RG234940**

KIF18B (NM_001264573) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF18B (NM_001264573) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIF18B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234940 representing NM_001264573
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGTGGAGGACAGCACGCTGCAAGTAGTGGTACGGGTGCGGCCCCACCCTCGGGAGCTGGACA
 GTCAGCGCGGCCAGTGGTTCAGGTGGTGGACGAGCGGGTCTGGTGTAAACCTGAGGAGCCGATGG
 AGGGTTCCCTGGCCTGAAATGGGGTGGCACCCATGATGGCCCAAGAAGAAGGGCAAAGACCTGACGTTT
 GTCTTTGACCGGGTCTTTGGCGAGGCGGCCACCCAACAGGACGTGTTCCAGCACACCACGCACAGCGTCC
 TGGACAGCTTCTCCAGGGCTACAAGTCTCAGTGTGGCTACGGGGCCACCGGGGCTGGGAAGACACA
 CACCATGCTGGGAAGGGAGGGGGACCCCGCATCATGTACCTGACCACCGTGAAGTGTACAGGCGCCTG
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 ATGACCTCTGGAGCCAAAGGGGCCCTTGCCATCCGCGAGGACCCGACAAGGGGGTGGTGGTGAAGG
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 AACAGCTCCAGGCTGAGGTAGCCGCTCTGAGGAAGAAGCTCCAAGTGTATGAGGGGGAGGCCAGCCGCC
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 GAGTCCCTCGCCTGACCCTGCAGCCAAAGCCAGTCGTGGGCCACTTCTCAGCACGGGAAGTGGATGGGG
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 CAACCTCTGACGCCGACATGATCACAGAGTTTGAGACCCTACAGCAGCTGGTGAAGAGGAAAAAATT
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 AGGGCACCTGTGCCCTGTTACCATGAAGGGCCCAAGCCAACATCTTCCCTCCCTGGGACCTCTGCCT
 GCAAGAAGAAGCGGTTGCGAGTTCTCAGTCTCCATGGCCGACGCGCATCGCCGCCTCCCCAGCAG
 CACTTTGAAGAGGCCAGCTGGGCCCTTGTACTCCAGGTGACTGGCAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

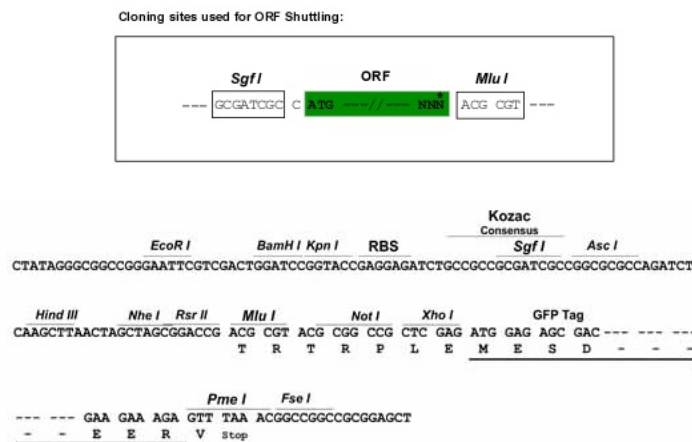
Protein Sequence: >RG234940 representing NM_001264573
 Red=Cloning site Green=Tags(s)

MAVEDSTLQVVVVRPPTPRELDSQRRPVVQVVDERVLVFNPEEPDGGFPLKWWGTHDGPKKKGGKDLTF
 VFDRVFGAATQQDVFQHTTHSVLDSFLQGYNCSVFAYGATGAGKTHTMLGREGDPGIMYLTTVELYRRL
 EARQQEKHFEVLI SYQEVYNEQIHDLLLEPKGPLAIREDPDKGVVQGLSFHQPASAEQLLEILTRGNRNR
 TQHPDANATSSRSHAIQIFVKQQDRVPLTQAVQVAKMSLIDLASERASSTHAKGERLREGANINRS
 LLALINVLNALADAKGRKTHVPYRDSKLRLLKDSLGGNCRTVMIAAISPSSLTIEDTYNTLKYADRAKE
 IRLSLKSNVTSLDCHISQYATICQQLQAEVAALRKKLQVYEGGGQPPPQDLPGSPKSGPPPEHLPSPLP
 PHPPSQPCTPELPAGPRALQEESLGMEAQVERAMEGNSSDQEQSPEDEDEGPAEEVPTQMPEQNPTHALP
 ESPRLTLQPKPVVGHFSARELDGDRSKQLALKVLCVAQRQYSLQAANLLTPDMI TEFETLQQLVQEEKI
 EPGAEALRTSGLARGAPLAQELCSESI PVSPCLPEPPGYTGPVTRTMARRLSGPLHTLGIPPGNCTPA
 QGSRWPMEKKRRRPSALEADSPMAPKRGTKRQRQSFPLCLRRGSLPDTQPSQGPSTPKGERASSPCHSPR
 VCPATVIKSRVPLGPSAMQNCSTPLALPTRDLNATFDLSEPPSKPSFHECIGWDKIPQELSRLDQFPFIP
 RAPVPLFTMKGPKPTSSLPGTSACKKKRVASSSVSHGRSRIARLPSSTLKRPAAGPLVLPGDWH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001264573

ORF Size: 2499 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_001264573.2](#)

RefSeq Size: 4308 bp

RefSeq ORF: 2502 bp

Locus ID: 146909

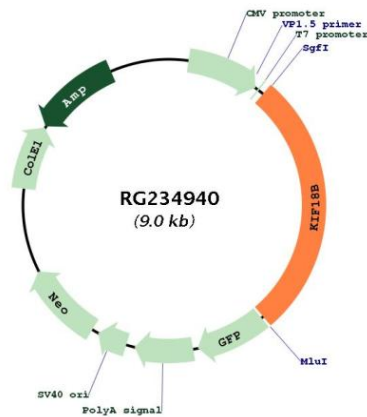
UniProt ID: [Q86Y91](#)

Cytogenetics: 17q21.31

Protein Families: Druggable Genome

Gene Summary: In complex with KIF2C, constitutes the major microtubule plus-end depolymerizing activity in mitotic cells. Its major role may be to transport KIF2C and/or MAPRE1 along microtubules. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG234940