

Product datasheet for **MG219601**

Kif3b (NM_008444) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif3b (NM_008444) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kif3b
Synonyms:	AI854312; AW549267; mKIAA0359
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219601 representing NM_008444
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCAAGTTAAAAAGCTCAGAATCAGTCCGGTGGTGGTCCGCTGTCGGCCCATGAATGGCAAAGAAA
 AGGCTGCATCTTATGACAAGGTGGTAGATGTGGATGTGAAGCTGGGGCAGGTGTCTGTGAAGAACCCCAA
 AGGCACATCCCATGAGATGCCAAAGACCTTACACTTCGACGCTGTGTATGATTGGAACGCCAAGCAGTTT
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 CCTATGGACAAACAGGAAGTGGGAAAACCTATACCATGGAGGGAGTTCGTGGTACCCTGAAAAAGAGG
 GGTATCCCAACTCCTTTGATCACATCTTACCCACATCTCTCGATCTCAGAATCAGCAGTACCTGGTC
 CGGGCGTCTTACTTAGAGATCTATCAAGAAGAGATTCGAGACTTGCTTTCAAAGGATCAGACCAAAAGGC
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 ACCACATCCGGGTAGGAAAGCTGAATCTTGTAGATCTTGTGGCAGTGAGCGGCAAGCCAAGACTGGAGC
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 GCCCTTGTAGATGGCAAAGCACCCATATTCATATAGAGACTCAAAGCTGACCAGGCTTCTCCAAGATT
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 CCTGACCACTCTGAGATATGCCAACCGTCCAAAAACATTAAGAACAAGCCAAGGGTCAATGAGGACCCA
 AAGGATGCTCTGCTTCGAGAATTCGAAGAAGAAATGCTCGGCTCAAGGCCAGCTGGAAAAACGTTCCA
 TTGGCAGGAGGAAGAGGGCGAGAGAAGCGGAGGGAAGGTGGCAGTGGTGGGGTGGGGAAGAGGAGGA
 GGAGGAGGGAGAAGAGGGTGGAGGAGACGGGGATGATAAGGATGATTACTGGCGGGAACAGCAAGAAAAA
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 TCTGCTGTGGGATACAAGAGACCTCTGAGCCAGCATGCACGGATGTCCATGATGATTCGGCCAGAGCCCC
 GGTACAGGGCGGAGAACATCATGCTCTTGGAGTTAGATATGCCAGCCGGACAACCAGAGACTACGAGGG
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 GATGCCTCATCTTTGAAAGTACTGCCAGCAGAAAAACCAAGGCCAGGCCAAGAGTGGCAGGAAATCAG
 GATCCTCTCTCTCCTCAGGAAACCTGCATCTCAGTTTTACCCACAGTCTCGGGGCTGGTTCCCAA
 G

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG219601 representing NM_008444
Red=Cloning site Green=Tags(s)

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MSK LKSSSESVRVVRCRPMNGKEKAASYDKVVDVVKLGQVSVKNPKGTSHEMPKTFTFDAVYDWNKQF
ELYDETRPLVDSVLQGFNGTIFAYGQTGTGKTYTMEGVRGDPEKRGVIPNSFDHIFTHISRSQNQQYL
V RASYLEIYQEEIRDLLSKDQTKRLELKERPDTGVVVKDLSSFVTKSVKEIEHVMNVGNQNRSVGATNMNE
HSSRSHAI FVITIECSEVGLDGENHIRVGKLNLDLAGSERQAKTGAQGERLKEATKINLSLSALGNVIS
ALVDGKSTHIPYRDSKLRLLQDSLGGNAKTMVAVNVPASYNVEETLTTLRYANRAKNIKPKRVNEDP
KDALLREFQEEIARLKAQLEKRSIGRRKRREKRREGGGSGGGGEEEEEEEEEGEEDGDDKDDYWREQQEK
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ILEQKRQEIAEQKRREIREIQQMESRDEETLELKETYTSLQQEVDIKTKLKLKFLSKLQAVKAEIHDLQE
EHIKERQELEQTQNELTRELKHLKHLIENFIPLLEKNKIMNRSFFDDEEDHWKLPITRLENQQMMKRPV
SAVGYKRPLSQHARMSMIRPEPRYRAENIMLLELDMPSTRTRDYEGPAISPKVQAALDAALQDEDEIQV
DASSFESTASRKPKARPKSGRKS GSSSSSSGNPASQFYQSRGLVPK
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008444

ORF Size: 2241 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_008444.4](#), [NP_032470.3](#)

RefSeq Size: 5647 bp

RefSeq ORF: 2244 bp

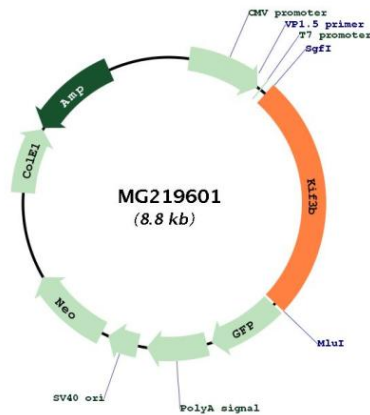
Locus ID: 16569

UniProt ID: [Q61771](#)

Cytogenetics: 2 75.41 cM

Gene Summary: Involved in tethering the chromosomes to the spindle pole and in chromosome movement. Microtubule-based anterograde translocator for membranous organelles. Plus end-directed microtubule sliding activity in vitro (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219601