

Product datasheet for **MG210130**

Kif3a (NM_008443) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif3a (NM_008443) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kif3a
Synonyms:	Kif3; Kifl; Kns3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210130 representing NM_008443
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCCGATCAATAAGTCGGAGAAGCCGAAAGCTGCGATAATGTGAAGGTGGTGGTTAGGTGCCGCCTC
TCAATGAGAGAGAGAAGTCAATGTGCTATAGACAGGCCGTGAGCGTGATGAAATGAGGGGAACTATCAC
CGTCCATAAGACCGATTCTCCAACGAACCTCCAAGACATTTACTTTTCGATACTGTTTTGGACCAGAA
AGTAAACAACCTTGATGTGTATACTTAACTGCAAGACCAATTATTGATTCTGTTCTGGAAGGCTACAATG
GGACCATCTTTGCATATGGACAGACTGGGACAGGCAAGACTTTCACCATGGAAGGCGTTCGAGCAGTACC
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ACAAGTTTTTGGTTCGAGTGTACTTGGAGATATATAATGAAGAAGTTCGAGACCTTTGGGTAAAG
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TGTAGTCAACAACGCTGACGACATGGATAGAATCATGACTCTAGGCCACAAAACCGTTCTGTCGGTGCG
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AGCAAAAACCTGGAGCCACAGGACAGCGCCTCAAGGAAGCTACAAAATCAACCTTTCATTGTCTACCCCTG
GGCAACGTTATTTCTGCCTTGGTGGATGGAAAAAGCACTCACGTGCCGTATCGGAACTCCAACTGACCC
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GAGATGGCTGATCTCCAGCAGGAGCATCAGAGGGAGATCGAAGGCCTCCTGGAGAACATCCGGCAGCTCA
GCCGGGAGCTCCGTCTTCAGATGCTCATATTGATAAATTCATACCTCAGGATTACCAGGAAATGATTGA
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ATGAGGAAACAACTCCAGTCCCTGACAAGAAGGAGAGACCCATTTGAAGTCGACCTTTCCACAGTGT
ACCTCGCTATACAGAGGAGAGTCTGCGTCAGTCTCTGATGAAGTTAGAAAGGCCACGGACCTCCAAGGG
GAAAGCAAGGCCAAAGATGGGGCGAAGAAAGCGTTCTGCAAAGCCTGAGACCGTAATTGATTCTTTACTT
CAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210130 representing NM_008443
 Red=Cloning site Green=Tags(s)

MPINKSEKPECDNVKVVVRCRPLNEREKSMCYRQAVSVDEMRTITVHKTDSSNEPPKTFTFDVTVFGPE
 SKQLDVYNLTARPIIDSVLEGYNGTIFAYGQTGTGKFTMEGVRAVPLRGVIPNSFAHIFGHIKAEGD
 TRFLVRVSYLEIYNEEVRDLLGKDQTRLEVKERPVDGVYIKDL SAYVVNNADDMDRIMTLGHKNRSVGA
 TNMNEHSSRSIAIFTITIECSEKGV DGNMHV RMGKLHLVDLAGSERQAKTGATGQRLKEATKINLSLSTL
 GNVISALVDGKSTHVPYRNSKLTRLLQDSLGGNSKTMMCANIGPADYNYDETISTLRYANRAKNIK NKAR
 INEDPKDALLRQFQKEIEELKKKLEEGEEVSGSDISGSEEDDEEGELGEDGKKKKRRDQAGKKKVPDK
 MVEMQAKIDEERKALETKLDMEEEERNKARAELEERREKDLLKAQQEHQSLEKLSALEKKVIVGGVDLLA
 KAAEQEKLLLEESNMELEERRRAEQLRKELEEKQERLDIEEKYTSLQEEAQGKTKLKKVWMLMAKS
 EMADLQQEHQREIEGLLENIRQLSRELRLQMLIIDNFIPQDYQEMIENYVHWNEDIGEWQLKCVAYTGNN
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 Q

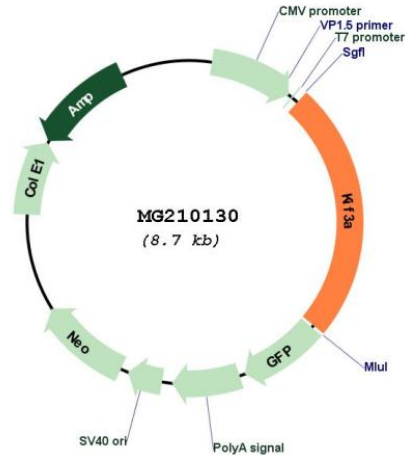
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_008443

ORF Size: 2103 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_008443.4](#), [NP_032469.2](#)

RefSeq Size: 5438 bp

RefSeq ORF: 2106 bp

Locus ID: 16568

UniProt ID: [P28741](#)

Cytogenetics: 11 31.97 cM

Gene Summary: Microtubule-based anterograde translocator for membranous organelles. Plus end-directed microtubule sliding activity in vitro. Plays a role in primary cilia formation (PubMed:21670265). Plays a role in centriole cohesion and subdistal appendage organization and function. Regulates the formation of the subdistal appendage via recruitment of DCTN1 to the centriole. Also required for ciliary basal feet formation and microtubule anchoring to mother centriole (PubMed:23386061).[UniProtKB/Swiss-Prot Function]