

Product datasheet for **RG221331**

KIF3A (NM_007054) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF3A (NM_007054) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIF3A
Synonyms:	FLA10; KLP-20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG221331 representing NM_007054
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGATCAATAAATCAGAGAAGCCAGAAAGCTGCGATAATGTGAAGGTTGTTGTTAGGTGCCGCCCC
 TCAATGAGAGAGAGAAATCAATGTGCTACAAACAGGCTGTCAGTGTGGATGAGATGAGGGAACTATCAC
 TGTACATAAGACTGATTCTTCCAATGAACCTCCAAAGACATTTACTTTTTGATACTGTTTTGGACCAGAG
 AGTAAACAACCTTGATGTTTATACTTAACTGCAAGACCTATTATTGATTCTGTACTTGAAGGCTACAATG
 GGACTATTTTTGCATATGGACAAACCGAACAGGCAAACTTTTACCATGGAAGGTGTTGCGACTATTCC
 TGAACCTAGAGGAATAATTCCCAATTCATTTGCTCACATATTTGGTCATATTGCAAAAGCGGAGGGTGAT
 ACAAGATTTTTGGTTCGAGTGTCTTATTGGAAATATATAATGAAGAAGTTCGTGACCTTTGGGCAAGG
 ATCAGACACAAAGGTTAGAGGTTAAAGAAAGACCTGATGTGGGAGTTTATCAAAGATTTATCAGCTTA
 TGTGGTAAATAATGCTGATGATATGGATAGAATTATGACGCTAGGCCACAAAAATCGTTCGTTGGTGCA
 ACTAATATGAACGAACATAGTCCCGTTCCCATGCCATCTTACAATTACTATAGAATGCAGTGAAAAAG
 GCATTGATGGTAACATGCATGTCAGGATGGGGAAGCTCCATCTTGTAGATCTTGCTGGTTGAGAAAGACA
 GGCAAAAAGCTGGAGCTACTGGACAGCGCCTAAAGGAAGCTACAAAAATCAATCTTTCACCTTCCACCCTT
 GGTAATGTAATTTCTGCCTTGGTTGATGGAAAAAGCACTCATGTGCCTTATCGTAACTCTAACTGACTC
 GTCTTCTCAGGATTCCTTAGGAGGAAATTCAAAAACCATGATGTGTGCAAAATTTGGGCCAGCAGATTA
 CAATTATGATGAAACTATCAGTACATTACGGTATGCCAATCGTGCTAAGAATATTAATAAAAGCTAGA
 ATTAATGAAGATCCAAAGGATGCTTTGCTGCGTCAGTTCAGAAAGAAATAGAAGAACTGAAAAAGAAGC
 TTGAAGAAGGAGAAGAAATATCAGGCTCTGATATCAGTGGGTGAGAGGAAGATGATGATGAAGAGGGTGA
 GGTTGGAGAAGATGGAGAGAAAAGGAAAAAAGAGGGGAAAAAAGAAAGTCTCCCCAGACAAGATGATT
 GAAATGCAAGCAAAAATTGATGAGGAGAGAAAAGCACTTGAAACAAAGCTCGACATGGAAGAAGAAGAAA
 GAAACAAGGCTAGAGCTGAATTAGAGAAACGGAAAAAGATCTTCTTAAAGCCCAACAAGAGCATCAGTC
 TTTGCTGGAAAAATTATCTGCCCTGAAAAAGAGGTAATTGTTGGTGGGTTGACTTGTGGCCAAAGCT
 GAGGAACAAGAGAACTTCTTGAAGAATCTAACATGGAAGTGAAGAAAGGAGGAAAAGAGCAGAGCAAC
 TTCGCAGAGAATTGAGGAAAAAGCAAGAACGCTTGGATATTGAAGAAAAATATACCAGTTTGAAGA
 GGAAGCACAGGAAAGACCAAGAAGTTAAAGAAAGTTTGGACTATGCTGATGGCTGCAAAGTCAGAGATG
 GCTGATCTCCAACAAGAACATCAGAGGAAATTAAGGCCTACTGGAGAACATTCGGCAACTTAGCCGGG
 AGCTTCGACTTCAGATGCTTATTATTGATAACTTTATACCTCGGGATTATCAGGAAATGATTGAAAATA
 TGTCATTGGAATGAAGACATAGGAGAATGGCAGCTAAAATGTGTTGCTTATACAGGAAATAACATGAGG
 AAGCAAAACCCAGTACCTGATAAAAAGGAGAAAGATCCCTTTGAGGTGGACCTTTCTCACGTGTATCTTG
 CCTATACTGAGGAGAGTCTGCGTCAGTCTTTGATGAAACTAGAAAAGACCAGAACTTCAAAGGGGAAAGC
 AAGGCCAAAGACAGGGAGAAGAAAGCGTTCTGCAAAGCCTGAAACTGTAATTGACTCTTTACTGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG221331 representing NM_007054
 Red=Cloning site Green=Tags(s)

MPINKSEKPECDNVKVVVRCRPLNEREKSMCYKQAVSVDEMRTITVHKTDSSNEPPKTFTFDVFVGP
 SKQLDVYNLTARPIIDSVLEGYNGTIFAYGQTGTGKTFTEGVRRAIPELRGIIPNSFAHIFGHIKAEGD
 TRFLVRVSYLEIYNEEVRDLLGKDQTRLEVKERPDPVGVYIKDL SAYVVNNADDMDRIMTLGHKNRSVGA
 TNMNEHSSRSHAIFTITIECSEKIDGNMHVRMGKHLVLAGSERQAKTGATGQRLKEATKINLSLSTL
 GNVISALVDGKSTHVPYRNSKLTRLLQDSLGGNSKTMMCANIGPADYNYDETISTLRYANRAKNIKAKAR
 INEDPKDALLRQFQKEIEELKKKLEEGEEISGSDISGSEEDDDEEGEVGEDGKRRKRRGKKVSPDKMI
 EMQAKIDEERKALETKLDMEEEERNKARAELEKREKDLLKAQQEHQSLLEKLSALEKKVI VGGVDLLAKA
 EEQEKLLEESNMELEERRKRAEQLRRELEEKEQERLDIEEKYTSLQEEAQGKTKLKKVWMLMAAKSEM
 ADLQQEHQREIEGLLENIRQLSRELRLQMLIIDNFIPRDYQEMIENYVHWNEDIGEWQLKCVAYTGNMNR
 KQTPVPDKKEKDPFEVDLSHVYLAYTEESLRQSLMKLERPRTSKGKARPKTGRKRSAKPETVIDSLLQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

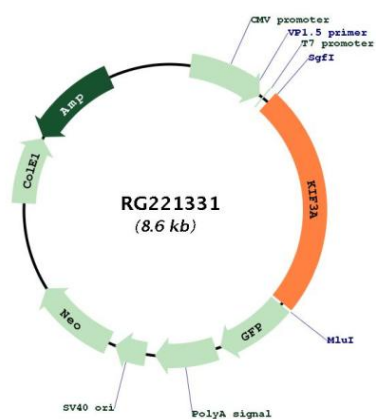


ACCN: NM_007054

ORF Size: 2097 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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_007054.7
RefSeq Size:	6257 bp
RefSeq ORF:	2100 bp
Locus ID:	11127
UniProt ID:	Q9Y496
Cytogenetics:	5q31.1
Domains:	kinesin
Protein Families:	Druggable Genome
Gene Summary:	<p>Microtubule-based anterograde translocator for membranous organelles. Plus end-directed microtubule sliding activity in vitro. Plays a role in primary cilia formation. 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. [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RG221331