

Product datasheet for **MG224672**

Kif19a (NM_001102615) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif19a (NM_001102615) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kif19a
Synonyms:	Kif19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224672 representing NM_001102615
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGGACACGGGTGACTCAAAGGACCAGCAACTCATGGTGGCACTTAGGGTCCGGCCCATCAGCGTGG
 CTGAGCTGGAGGAGGGAGCTACCCTCATCGCTCACAAGATGGACGAGCAGATGGTGGTTCTCATGGACCC
 AATGGAGGACCCCTGACGACATTCTCGGGCACACCGGTCCCGGGAGAAATCATACCTCTTTGACGTGGCC
 TTTGACTTCACTGCTACCCAGGAGATGGTATATCAGGCCACCACCAAGAGCCTCATCGAGGGCGTCACT
 CAGGGTACAATGCCACTGTGTTTGCCTATGGCCCTACAGGCTGTGGGAAGACCTACACCATGCTGGGCAC
 TGACCACGAGCCAGGCATCTATGTTCCGACCCTCAATGACCTGTTCCGAGCCATCGAGGAGACCAGCAAT
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 TCAAGAACATCCTCCAGGAGGTGCGGCAGGGCCGCTGTTTATGATTGACCTAGCTGGCTCCGAGCGTGC
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 TGAGATCATCCAGGGCCAGCGGCAGATCATCGAGCACTACAATCTGGAGGTTCCCGGCACCTGGAGGAA
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 CTACCCATGGCTCAAGCACCTTTGGCAAAGATGGACGCCTCCAGCATAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224672 representing NM_001102615
 Red=Cloning site Green=Tags(s)

MKDSGDSKDQQLMVALRVRPISVAEEEGATLIAHKMDEQMVVLMMPMEDPDDILRAHRSREKSYLFDVA
 FDFATQEMVYQATTKSLIEGVISGYNAVTFAYGPTGCGKTYTMLGTDHEPGIYVRTLNDLFRAIEETS
 DMEYEVMSYLEIYNEMIRDLLNPALGYLELREDSKGVIVAGITEVSTINAKEIMQLLMKGNRQRTQEP
 TAAQTSSRSHAVLQVAVRQSRVKNILQEVQRGLFMIDLASERASQTQNRGQRMKEGAHINRSLAL
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 KQNLLNVSYHIAQYTSIIADLRGEIQRLKCKIDQQAGRGQARGKLD RGDIRHIQAEVQLHSGQEGPAEMG
 QLREQLISAFHEQMDVRRRLLELENQAMEVQIDTSRHL TIAGWEHEKSRRALKWREERRKESYTKEDSE
 KSDSDTGDEPDNLEPPEVASARENIAALVGEQKLRKEKLALQRCREL RARGRLEETLPRRIGSEEQRE
 VLSLLCRVHELEVENTEMQSHALLRDSALRHRREAVRRL EQHRS LCDEIIQGQRQIIDDYNLEVPRHLEE
 LYEYVLRLEEGSLERATIMDRVASRALQDSSLPKITPAGATLTPDSDLESVKTL SSEAQRPNNTLPLPL
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 KEILTRTKCISVAAAQRSSRALGTEGRHLLAPATERSSSL SHSLSEADARPPGQLACKRPPSPPTLQHAI
 SEDNLSSTGEGPSRAVGRGDGTGSWVRGQKCLSKKREESLEAKRRKRRSRSFEVTGQGLSRPKTHLL
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 LPHGSSTFGKDGRLQHN

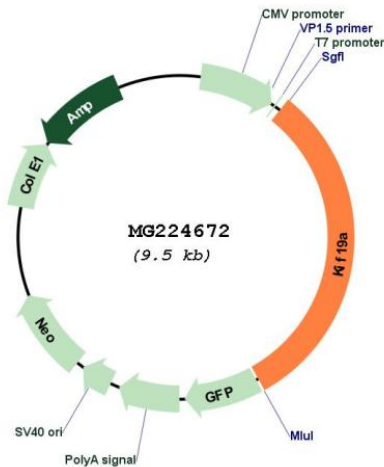
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001102615

ORF Size: 2991 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_001102615.1](#), [NP_001096085.1](#)

RefSeq Size: 3433 bp

RefSeq ORF: 2994 bp

Locus ID: 286942

UniProt ID: [Q99PT9](#)

Cytogenetics: 11 E2

Gene Summary:

Plus end-directed microtubule-dependent motor protein that regulates the length of motile cilia by mediating depolymerization of microtubules at ciliary tips.[UniProtKB/Swiss-Prot Function]