

Product datasheet for **MG220981**

Kif20a (NM_009004) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif20a (NM_009004) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kif20a
Synonyms:	AA415432; Rab6kifl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220981 representing NM_009004
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTCACCGGATCCTTTCTCCGCCAGCGGGCTTACTCTCTGATGAGGATGTTGTAGACTCTCCATAT
 TAGAATCCACAGCTGCAGATCTGAGATCTGTTGTCCGAAAGGACCTGTTGTGACTGCTCTGTCATCTC
 TGCTCTCTGGAGGACAAGCAGGCTCTACTGGAGGACACCTCAGAGAAGGTGAAAGTTTACCTTCGAATT
 CGACCATCTTGACTTCAGAGTTGGACCGACAGGAAGATCAGGGCTGCGTCTGCATTGAGAATACAGAAA
 CCCTTGTGCTGCAGGCACCCAAAGACTCCTTTCCTTGAAGAGTAATGAGAGGGGAGTTGGTCAGGCCAC
 TCACAAATTTACCTTTCCAGATATTTGGCCAGAAGTGGGACAGGTGGCCTTCTTCAATCTGACCATG
 AAGGAGATGGTGAAGGATGTGCTCAAAGGGCAGAAGTGGCTCATCTACACCTATGGAGTCACCAACTCGG
 GAAAAACGTACACCATTCAAGTACTAGTAAGGATGCGGGGATCCTGCCAGTCCCTGGCTCTCATCTT
 TAATAGTCTCCAGGGCCAGCTTCCGACACCTGACCTGAAGCCCTTATTGTCCAATGAAGTAATCTGG
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 AGGAGCTGTCCACCTCCGTGAAGAAACGTGCCACACTGAAAGTCGGATAGGTGCCAGCAACAGCTTTGA
 CAGTGGCGTGTGCTGGGCTGTCTCCACCAGTCAGTTCACCAGCAGCAGCCAGCTAGATGAAACAAGTCAA
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 TCTTTGAGATCTACAATGAATTGCTTTATGACCTGTTAGAACCACCTAGCCATCAGCATAAGAGACAGAC
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 TGGGAATCCCATCCCTGCATTATTATCAAGAAGCACAGTCTCAGGTTGGCCCTGGCTTAGAGAAAAGA
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 GAACTACTCCAGGTGGTGAAGCCATGAAAGCGCTACTTTTAAAAGAACGACAAGAAAAGCTGCAGTTGG
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 CCCCCAGGAAAGAAACCTTCTGCGAAACTTACTTCCCCGAACACCTACCTGCCAAAGCTCAACAGACA
 GCAGCCCTTATGCGCGGATCTTGCCTCACGGCACTCTCCTTACTCAAATCTCCCTTTGGCAAAAAATA
 C

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >MG220981 representing NM_009004
 Red=Cloning site Green=Tags(s)

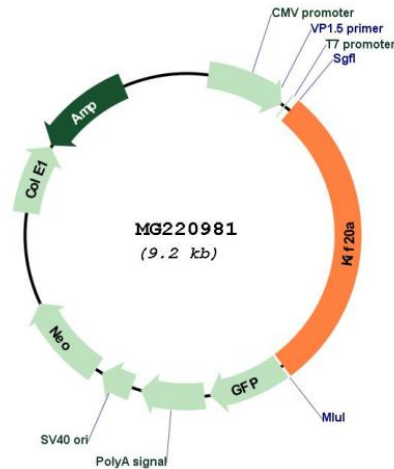
MSHRILSPPAGLLSDEDVVDSPILESTAADLRSVVRKDLLSDCSVISASLEDKQALLEDTSEKVKVYLRI
 RPFLTSELDREQDQGCVCIENTETLVLQAPKDSFALKSNERGVGQATHKFTFSQIFGPEVGQVAFNLT
 KEMVKDVLKQONLIYTYGVTNSGKTYTIQGTSKDAGILPQSLALIFNSLQGLHPTDLKPLLSNEVIW
 LDSKQIRQEEMKLSLLIGGLQEEELSTSVKRVHTESRIGASNSFDSGVAGLSSTSQFTSSQLDETSQ
 LWAQPDTVPVSPADIRFSVWISFFEIYNELLYDLEPPSHQHKRQTLRLCEDQNGNPYVKDLNWIHVRD
 VEEAWKLLKVGKRNQSFASHTMNQSSRSISFIRILHLQEGDIVPKISELSLCLAGSERCKHQKSG
 ERLKEAGNINTSLHTLGRCIAALRQNQNRSKQNLIPFRD SKL TRVFQGF TGRGRSCMIVNVNPCASTY
 DETLHAAKFSALASQLVHAPPVHLGIPSLHSFIKKHSPQVGPGLKEDKADSDLEDSPEDEADVSYGKE
 ELLQVVEAMKALLKERQEKLEIQLREEICNEMVEQMQRREQWCERLDNQKELMEELYEEKLIKKE
 SLTTFYQEIQERDEKIEELETLLQEAKQPAAQQSGGLSLLRRSQRLAASASTQQFQEVKAELEQCKTE
 LSSTTAE LHKYQV LKPPPPAKPFTIDVDKLEEGQKNIRLLRTELQKLGQSLQSAERACCHSTGAGKLR
 QALTNCDDILIKQNQTLAELQNNMVLVKLDLQKKAACIAEQYHTVLKLGQASAKKRLGANQENQPNHQ
 PPGKPKFLRNLLPRTPTCQSSTDSSPYARILRSRHSPLLKSPFGKKY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_009004

ORF Size: 2661 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_009004.4](#), [NP_033030.1](#)

RefSeq Size: 3473 bp

RefSeq ORF: 2664 bp

Locus ID: 19348

UniProt ID: [P97329](#)

Cytogenetics: 18 18.69 cM

Gene Summary:

Mitotic kinesin required for chromosome passenger complex (CPC)-mediated cytokinesis. Following phosphorylation by PLK1, involved in recruitment of PLK1 to the central spindle (By similarity). Interacts with guanosine triphosphate (GTP)-bound forms of RAB6A and RAB6B. May act as a motor required for the retrograde RAB6 regulated transport of Golgi membranes and associated vesicles along microtubules. Has a microtubule plus end-directed motility.[UniProtKB/Swiss-Prot Function]