

## Product datasheet for **MG211068**

### **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:**

>MG211068 representing NM\_009004  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTCACCGGATCCTTTCTCCGCCAGCGGGCTTACTCTCTGATGAGGATGTTGTAGACTCTCCATAT  
 TAGAATCCACAGCTGCAGATCTGAGATCTGTTGTCCGAAAGGACCTGTTGTGACTGCTCTGTCATCTC  
 TGCTCTCTGGAGGACAAGCAGGCTCTACTGGAGGACACCTCAGAGAAGGTGAAAGTTTACCTTCGAATT  
 CGACCATCTTGACTTCAGAGTTGGACCGACAGGAAGTCAGGGCTGCGTCTGCATTGAGAATACAGAAA  
 CCCTTGTGCTGCAGGCACCCAAAGACTCCTTTCCTTGAAGAGTAATGAGAGGGGAGTTGGTCAGGCCAC  
 TCACAAATTTACCTTTCCAGATATTTGGCCAGAAGTGGGACAGGTGGCCTTCTTCAATCTGACCATG  
 AAGGAGATGGTGAAGGATGTGCTCAAAGGGCAGAAGTGGCTCATCTACACCTATGGAGTCACCAACTCGG  
 GAAAAACGTACACCATTCAAGTACTAGTAAGGATGCGGGGATCCTGCCAGTCCCTGGCTCTCATCTT  
 TAATAGTCTCCAGGGCCAGCTTCCACACCTGACCTGAAGCCCTTATTGTCCAATGAAGTAATCTGG  
 CTAGACAGCAAGCAGATTCGACAGGAGGAAATGAAGAAGCTGTCCCTTGCTAATTGGAGGCCCTCAAGAGG  
 AGGAGCTGTCCACCTCCGTGAAGAAACGTGCCACACTGAAAGTCGGATAGGTGCCAGCAACAGCTTTGA  
 CAGTGGCGTGTGCTGGGCTGTCTCCACCACTGAGTTCACCAAGCAGCAGCCAGCTAGATGAAACAAGTCAA  
 TTATGGGCACAACCAGACACTGTCCAGTAAGTGTCCAGCAGACATTGCTTCTGTCTGGATCTCCT  
 TCTTTGAGATCTACAATGAATTGCTTTATGACCTGTTAGAACCACCTAGCCATCAGCATAAGAGACAGAC  
 ACTTCGGCTGTGTGAGGATCAGAACGGCAATCCTTACGTGAAAGATCTCAATTGGATTGATGTTGCTGAT  
 GTTGAGGAAGCCTGAAACTATTGAAAGTGGGTCGCAAGAACCAGAGCTTTGCCAGCACCCACATGAACC  
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 CCAAGGCTTCTTACAGGTCGAGGTCGTTCTGTATGATTGTCAATGTGAATCCCTGTGCATCTACATAT  
 GACGAGACTCTTATGCAGCCAAATTCAGCCCTAGCCAGCCAGCTTGTGCACGCCCCACCTGTGCATC  
 TGGGAATCCCATCCCTGCATTATTATCAAGAAGCAGTCTCAGGTTGGCCCTGGCTTAGAGAAAAGA  
 GGACAAGGCCGACTCAGACCTTGGAGCAGTCTGAAGACGAAGTGCAGTCTCCGTGTATGGCAAGGAG  
 GAACTACTCCAGGTGGTGAAGCCATGAAAGCGCTACTTTTAAAAGAACGACAAGAAAAGCTGCAGTTGG  
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 TCACTGACAATTTCTACCAAGAGCAGATCCAGGAGCGGGATGAAAAAATGAAAGAGCTAGAAAACCTGT  
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 GCTGGCAGCGTCTGCCTCCACTCAGCAGTTCAGGAAGTTAAAGCTGAAGTGAAGCAATGCAAAAACAGAG  
 TTAAGCTCTACCACTGCAGAGCTGCACAAGTATCAGCAAGTGTAAAACCGCCACCCCAAGCAAGCCTT  
 TCACCATTTGATGTGGATAAGAAGTTAGAGGAGGGCCAGAAGAATAAAGACTGCTACGGACAGAGCTCCA  
 GAAACTAGGACAGTCTCTGCAGTCAGCAGAAAAGCCTGTTGCCACAGCACCGGAGCAGGAAAACCTCGT  
 CAAGCATTAAACCAACTGTGATGACATCTTAATCAAGCAGAACCAGACCCTGGCTGAGCTGAGAATAACA  
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 GCTCCAAGGCCAAGCCTCTGCCAAAAAGCGGCTGGGAGCAAACCAGGAAAACCAGCAACCAATCATCAA  
 CCCCCAGGAAAGAAACCTTCTGCGAAACTTACTTCCCCGAACACCTACCTGCCAAAGCTCAACAGACA  
 GCAGCCCTTATGCGCGGATCTTGCCTCACGGCACTCTCCTTACTCAAATCTCCCTTTGGCAAAAAATA  
 C

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – **GTTTAA**

**Protein Sequence:** >MG211068 representing NM\_009004  
 Red=Cloning site Green=Tags(s)

MSHRILSPPAGLLSDEDVVDSPILESTAADLRSVVRKDLLSDCSVISASLEDKQALLEDTSEKVKVYLRI  
 RPFLTSELDREQDQCVCIENTETLVLQAPKDSFALKSNERGVGQATHKFTFSQIFGPEVGQVAFNLT  
 KEMVKDVLKQONLIYTYGVTNSGKTYTIQGTSKDAGILPQSLALIFNSLQGLHPTDLKPLLSNEVIW  
 LDSKQIRQEEMKLSLLIGGLQEEELSTSVKRVHTESRIGASNSFDSGVAGLSSTSQFTSSQLDETSQ  
 LWAQPDTVPVSPADIRFSVWISFFEIYNELLYDLEPPSHQHKRQTLRLCEDQNGNPYVKDLNWIHVRD  
 VEEAWKLLKVGKRNQSFASHTMNQSSRSISFIRILHLQEGDIVPKISELSLCLAGSERCKHQKSG  
 ERLKEAGNINTSLHTLGRICIAALRQNQQNRSKQNLIPFRD SKL TRVFQGF TGRGRSCMIVNVNPCASTY  
 DETLHAAKFSALASQLVHAPPVHLGIPSLHSFIKKHSPQVGPGLKEDKADSDLEDSPEDEADVSYGKE  
 ELLQVVEAMKALLKERQEKLQLEIQLREEICNEMVEQMQRREQWCERLDNQKELMEEL YEEKLILKE  
 SLTTFYQEIQERDEKIEELETLLQEAKQPPAAQQSGGLSLLRRSQRLAASASTQQFQEVKAELEQCKTE  
 LSSTTAELHKYQQVLPKPPPAKPFITIDVKKLEEGQKNIRLLRTELQKLGQSLQSAERACCHSTGAGKLR  
 QALTNCDDILIKQNQTLAELQNNMVLVKLDLQKKAACIAEQYHTVLKLGQASAKKRLGANQENQPNHQ  
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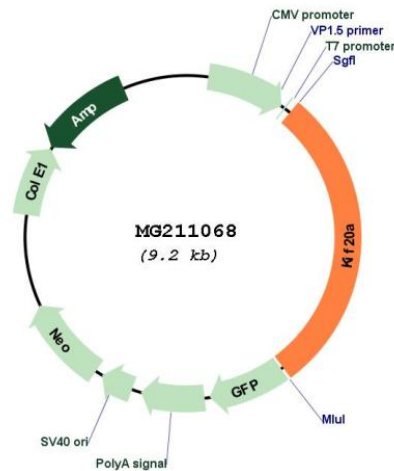
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_009004

**ORF Size:** 3470 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:** 3416 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]