

## Product datasheet for **MR220981**

### **Kif20a (NM\_009004) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kif20a (NM_009004) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kif20a
Synonyms:	AA415432; Rab6kifl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR220981 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTCACCGGATCCTTTCTCCGCCAGCGGGCTTACTCTCTGATGAGGATGTTGTAGACTCTCCATAT  
 TAGAATCCACAGCTGCAGATCTGAGATCTGTTGTCCGAAAGGACCTGTTGTGACTGCTCTGTCATCTC  
 TGCTCTCTGGAGGACAAGCAGGCTCTACTGGAGGACACCTCAGAGAAGGTGAAAGTTTACCTTCGAATT  
 CGACCATCTTGACTTCAGAGTTGGACCGACAGGAAGATCAGGGCTGCGTCTGCATTGAGAATACAGAAA  
 CCCTTGTGCTGCAGGCACCCAAAGACTCCTTTCCTTGAAGAGTAATGAGAGGGGAGTTGGTCAGGCCAC  
 TCACAAATTTACCTTTCCAGATATTTGGCCAGAAGTGGGACAGGTGGCCTTCTTCAATCTGACCATG  
 AAGGAGATGGTGAAGGATGTGCTCAAAGGGCAGAACTGGCTCATCTACACCTATGGAGTCACCAACTCGG  
 GAAAAACGTACACCATTCAAGTACTAGTAAGGATGCGGGGATCCTGCCAGTCCCTGGCTCTCATCTT  
 TAATAGTCTCCAGGGCCAGCTTCCACACCTGACCTGAAGCCCTTATTGTCCAATGAAGTAATCTGG  
 CTAGACAGCAAGCAGATTCGACAGGAGGAAATGAAGAAGCTGTCCCTTGCTAATTGGAGGCCCTCAAGAGG  
 AGGAGCTGTCCACCTCCGTGAAGAAACGTGCCACACTGAAAGTCGGATAGGTGCCAGCAACAGCTTTGA  
 CAGTGGCGTGTGCTGGGCTGTCTCCACCAGTCAGTTCACCAGCAGCAGCCAGCTAGATGAAACAAGTCAA  
 TTATGGGCACAACCAGACACTGTCCAGTAAGTGTCCAGCAGACATTGCTTCTGTCTGGATCTCCT  
 TCTTTGAGATCTACAATGAATTGCTTTATGACCTGTTAGAACCACCTAGCCATCAGCATAAGAGACAGAC  
 ACTTCGGCTGTGTGAGGATCAGAACGGCAATCCTTACGTGAAAGATCTCAATTGGATTATGTTCTGTGAT  
 GTTGAGGAAGCCTGAAACTATTGAAAGTGGGTCGCAAGAACCAGAGCTTTGCCAGCACCCACATGAACC  
 AGCAATCCAGCCGACGTACAGCATCTTCTCAATCAGAATCTTGACCTCAGGGAGAAGGGGATATAGT  
 GCCCAAGATCAGTGAACGTGACCTGTGACCTGGCTGGCTCTGAGCGCTGCAAAACATCAAAAAAGTGGT  
 GAGCGGCTAAAGGAGGCAGGGAACATTAACACTTCTCTGCACACCCTGGGCGCTGTATTGCTGCCCTGC  
 GACAGAATCAGCAGAACCAGTCAAAGCAGAACCTGATTCCTTTCCGTGACAGCAAGTTGACTCGTGTGTT  
 CCAAGGCTTCTTACAGGTGAGGTCGTTCTGTATGATTGTCAATGTGAATCCCTGTGCATCTACATAT  
 GACGAGACTCTTATGCAGCCAAATTCAGCCCTAGCCAGCCAGCTTGTGCACGCCCCACCTGTGCATC  
 TGGGAATCCCATCCCTGCATTATTATCAAGAAGCACAGTCTCAGGTTGGCCCTGGCTTAGAGAAAAGA  
 GGACAAGGCCGACTCAGACCTTGAGGACAGTCTGAAGACGAAGCTGACGTCTCCGTGTATGGCAAGGAG  
 GAACTACTCCAGGTGGTGAAGCCATGAAAGCGCTACTTTTAAAAGAACGACAAGAAAAGCTGCAGTTGG  
 AGATACAGCTCCGAGAGGAAATTTGCAACGAAATGGTGAACAGATGCAACAGCGGGAGCAGTGGTGCAG  
 TGAGCGTTTGGACAACCAAAAGGAACTGATGGAGGAACTGTACGAGGAGAAACTGAAGATCCTGAAGGAA  
 TCACTGACAATTTCTACCAAGAGCAGATCCAGGAGCGGGATGAAAAAATGAAGAGCTAGAAAACCTGT  
 TGCAGGAAGCCAAACAGCAGCCAGCGGCACAACAGTCAAGGGGGCTGTCCCTCCTCCGGCGGTACAGAG  
 GCTGGCAGCGTCTGCCTCCACTCAGCAGTTCAGGAAGTTAAAGCTGAAGTGAAGCAATGCAAAAACAGAG  
 TTAAGCTCTACCACTGCAGAGCTGCACAAGTATCAGCAAGTGTAAAACCGCCACCCCAAGCAAGCCTT  
 TCACCATTTGATGTGGATAAGAAGTTAGAGGAGGGCCAGAAGAATAAAGACTGCTACGGACAGAGCTCCA  
 GAAACTAGGACAGTCTCTGCAGTCAGCAGAAAGAGCCTGTTGCCACAGCACCGGAGCAGGAAAACCTCGT  
 CAAGCATTAAACCACTGTGATGACATCTTAATCAAGCAGAACCAGACCCTGGCTGAGCTGAGAATAACA  
 TGGTGCTAGTGAAACTGGACCTTCAAAAAAGGACGCTGCATTGCTGAGCAGTATCACACTGTGCTAAA  
 GCTCCAAGGCCAAGCCTCTGCCAAAAAGCGGCTGGGAGCAAACCAGGAAAACCAGCAACCAATCATCAA  
 CCCCCAGGAAAGAAACCTTCTGCGAAACTTACTTCCCCGAACACCTACCTGCCAAAGCTCAACAGACA  
 GCAGCCCTTATGCGCGGATCTTGCCTCACGGCACTCTCCTTACTCAAATCTCCCTTTGGCAAAAAATA  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220981 protein sequence  
 Red=Cloning site Green=Tags(s)

MSHRILSPPAGLLSDEDVVDSPILESTAADLRSVVRKDLLSDCSVISASLEDKQALLEDTSEKVKVYLRI  
 RPFLTSELDREQDQGCVCIENTETLVLQAPKDSFALKSNERGVGQATHKFTFSQIFGPEVGVQVAFNLT  
 KEMVKDVLKGNWLIYTYGVTNSGKTYTIQGTSKDAGILPQSLALIFNSLQGLHPTDLKPLLSNEVIW  
 LDSKQIRQEEMKLLSLLIGGLQEEELSTSVKRVHTESRIGASNSFD SGVAGLSSTSQFTSSSQLDETSQ  
 LWAQPDTVPVSPADIRFSVWISFFEIYNELLYDLEPPSHQHKRQTLRLCEDQNGNPYVKDLNWIHVRD  
 VEEAWKLLKVGKRNQSFASHTMNQSSRSISIFIRILHLQEGDIVPKISELSLCLAGSERCKHQKSG  
 ERLKEAGNINTSLHTLGRGIAALRQNRQNRKQNLIPFRD SKL TRVFQGF FTGRGRSCMIVNVNPCASTY  
 DETLHAAKFSALASQLVHAPPVHLGIPSLHSFIKKHSPQVGPGLKEDKADSDLEDSPEDEADVSYGKE  
 ELLQVVEAMKALLKERQEKLQLEIQLREEICNEMVEQMQRREQWC SERLDNQKELMEEL YEEKLIKKE  
 SLTTFYQEIQERDEKIEELETLLQEAKQPAAQQSGGLSLLRRSQRLAASASTQQFQEVKAELEQCKTE  
 LSSTTAELHKYQQVLPKPPPAKPF TIDVDKLEEGQKNIRLLRTELQKLQSLQSAERACCHSTGAGKLR  
 QALTNCDDILIKQNQTLAELQNNMVLVKLDLQKKAACIAEQYHTVLKLGQASAKKRLGANQENQPNHQ  
 PPGKPFRLRLLPRTPTCQSSTDSSPYARILRSRHSPLLKSPFGKKY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

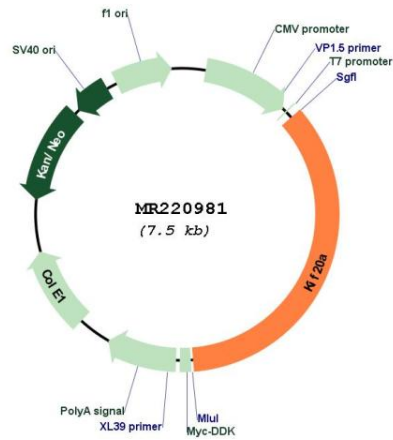
Cloning Scheme:



ACCN: NM\_009004

<b>ORF Size:</b>	2664 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009004.4</a> , <a href="#">NP_033030.1</a>
<b>RefSeq Size:</b>	3473 bp
<b>RefSeq ORF:</b>	2664 bp
<b>Locus ID:</b>	19348
<b>UniProt ID:</b>	<a href="#">P97329</a>
<b>Cytogenetics:</b>	18 18.69 cM
<b>MW:</b>	99.9 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR220981