

Product datasheet for **RG201100**

KIF20A (NM_005733) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF20A (NM_005733) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIF20A
Synonyms:	MKLP2; RAB6KIFL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201100 representing NM_005733
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGAAGGGATCCTTTCTCCGCCAGCGGGCTTGCTGTCCGATGACGATGTCGTAGTTTCTCCCATGT
 TTGAGTCCACAGCTGCAGATTTGGGGTCTGTGGTACGCAAGAACCTGCTATCAGACTGCTGTGCTGCTC
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 CACACACAGGTTACCTTTCCAGATCTTTGGGCCAGAAGTGGGACAGGCATCTTCTTCAACCTAACT
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 CAGACTGCAGCCCTATGCCCGGATCCTACGCTCACGGCGTTCCTTTACTCAAATCTGGGCCTTTTGG
 CAAAAAGTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >RG201100 representing NM_005733
 Red=Cloning site Green=Tags(s)

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MSQGILSPPAGLLSDDVVVSPMFESTAADLGSVVRKNLLSDCSVVVSTSLQKQVPSSEDSMEKVKVYLR
VRPLLPSELERQEDQGCVRIVENVETLVLQAPKDSFALKSNERGIGQATHRF TFSQIFGPEVGOASFFNLT
VKEMVKDVLKGGQNLIIYTYGVTNSGKTHTIQGTIKDGGILPRSLALIFNSLQQLHPTDLKPLLSNEVI
WLDKQIRQEEMKKLSLLNGGLQEEELSTSLKRSVYIESRIGTSTSFDSGIAGLSSISQCTSSSQLEDETS
HRWAQPDAPLPVPANIRFSIWISSFEEIYNELLYDLLEPPSQQRKQTLRLCEDQNGNPYVKDLNWIHVQ
DAEEAWKLLKVGKRNQSFASHTLNQNSSRSHSIFIRILHLQEGEIVPKISELSLCLAGSERCKDQKS
GERLKEAGNINTSLHTLGRICIAALRQNRQNRKQNLVPPFRDQSLTRVFQGF TGRGRSCMIVNVNPCAST
YDETLHVAKFSAIASQLVHAPPMQLGFP SLHSF IKEHSLQVSPSLEKGA KADTGLDDDIENEADISMYGK
EELLQVVEAMKTL LLLKERQEK LQLEMHLRDEICNEMVEQMQRREQWCSEHLDTQKELLEEMEYEEKLNILK
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QQPPGKKPFLRNLLPRTPTCQSSTDCSPYARILRSRRSPLLSGPF GKKY
  
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TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

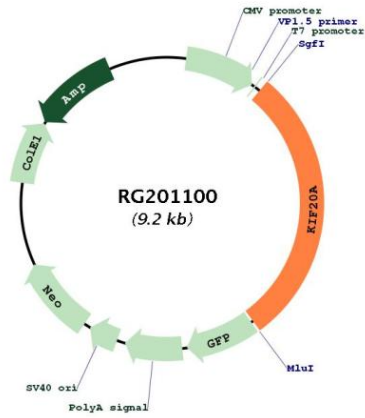
Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN:	NM_005733
ORF Size:	2670 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:	<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_005733.3
RefSeq Size:	2972 bp
RefSeq ORF:	2673 bp
Locus ID:	10112
UniProt ID:	O95235
Cytogenetics:	5q31.2
Domains:	kinesin
Protein Families:	Druggable Genome
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. 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 RG201100