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# Product datasheet for SC116593

## KIF20A (NM_005733) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | KIF20A (NM_005733) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | KIF20A |
| **Synonyms:** | MKLP2; RAB6KIFL |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>OriGene sequence for NM_005733 edited
GAATTCGGCACGGAGGGGAGGAGCAAGTGGCACGTCTTCGGACCTAGGCTGCCCCTGCCG
TCATGTCGCAAGGGATCCTTTCTCCGCCAGCGGGCTTGCTGTCCGATGACGATGTCGTAG
TTTCTCCCATGTTTGAGTCCACAGCTGCAGATTTGGGGTCTGTGGTACGCAAGAACCTGC
TATCAGACTGCTCTGTCGTCTCTACCTCCCTAGAGGACAAGCAGCAGGTTCCATCTGAGG
ACAGTATGGAGAAGGTGAAAGTATACTTGAGGGTTAGGCCCTTGTTACCTTCAGAGTTGG
AACGACAGGAAGATCAGGGTTGTGTCCGTATTGAGAATGTGGAGACCCTTGTTCTACAAG
CACCCAAGGACTCTTTTGCCCTGAAGAGCAATGAACGGGGAATTGGCCAAGCCACACACA
GGTTCACCTTTTCCCAGATCTTTGGGCCAGAAGTGGGACAGGCATCCTTCTTCAACCTAA
CTGTGAAGGAGATGGTAAAGGATGTACTCAAAGGGCAGAACTGGCTCATCTATACATATG
GAGTCACTAACTCAGGGAAAACCCACACGATTCAAGGTACCATCAAGGATGGAGGGATTC
TCCCCCGGTCCCTGGCGCTGATCTTCAATAGCCTCCAAGGCCAACTTCATCCAACACCTG
ATCTGAAGCCCTTGCTCTCCAATGAGGTAATCTGGCTAGACAGCAAGCAGATCCGACAGG
AGGAAATGAAGAAGCTGTCCCTGCTAAATGGAGGCCTCCAAGAGGAGGAGCTGTCCACTT
CCTTGAAGAGGAGTGTCTACATCGAAAGTCGGATAGGTACCAGCACCAGCTTCGACAGTG
GCATTGCTGGGCTCTCTTCTATCAGTCAGTGTACCAGCAGTAGCCAGCTGGATGAAACAA
GTCATCGATGGGCACAGCCAGACACTGCCCCACTACCTGTCCCGGCAAACATTCGCTTCT
CCATCTGGATCTCATTCTTTGAGATCTACAACGAACTGCTTTATGACCTATTAGAACCGC
CTAGCCAACAGCGCAAGAGGCAGACTTTGCGGCTATGCGAGGATCAAAATGGCAATCCCT
ATGTGAAAGATCTCAACTGGATTCATGTGCAAGATGCTGAGGAGGCCTGGAAGCTCCTAA
AAGTGGGTCGTAAGAACCAGAGCTTTGCCAGCACCCACCTCAACCAGAACTCCAGCCGCA
GTCACAGCATCTTCTCAATCAGGATCCTACACCTTCAGGGGGAAGGAGATATAGTCCCCA
AGATCAGCGAGCTGTCACTCTGTGATCTGGCTGGCTCAGAGCGCTGCAAAGATCAGAAGA
GTGGTGAACGGTTGAAGGAAGCAGGAAACATTAACACCTCTCTACACACCCTGGGCCGCT
GTATTGCTGCCCTTCGTCAAAACCAGCAGAACCGGTCAAAGCAGAACCTGGTTCCCTTCC
GTGACAGCAAGTTGACTCGAGTGTTCCAAGGTTTCTTCACAGGCCGAGGCCGTTCCTGCA
TGATTGTCAATGTGAATCCCTGTGCATCTACCTATGATGAAACTCTTCATGTGGCCAAGT

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TCTCAGCCATTGCTAGCCAGCTTGTGCATGCCCCACCTATGCAACTGGGATTCCCATCCC
TGCACTCGTTCATCAAGGAACATAGTCTTCAGGTATCCCCCAGCTTAGAGAAAGGGGCTA
AGGCAGACACAGGCCTTGATGATGATATTGAAAATGAAGCTGACATCTCCATGTATGGCA
AAGAGGAGCTCCTACAAGTTGTGGAAGCCATGAAGACACTGCTTTTGAAGGAACGACAGG
AAAAGCTACAGCTGGAGATGCATCTCCGAGATGAAATTTGCAATGAGATGGTAGAACAGA
TGCAACAGCGGGAACAGTGGTGCAGTGAACATTTGGACACCCAAAAGGAACTATTGGAGG
AAATGTATGAAGAAAAACTAAATATCCTCAAGGAGTCACTGACAAGTTTTTACCAAGAAG
AGATTCAGGAGCGGGATGAAAAGATTGAAGAGCTAGAAGCTCTCTTGCAGGAAGCCAGAC
AACAGTCAGTGGCCCATCAGCAATCAGGGTCTGAATTGGCCCTACGGCGGTCACAAAGGT
TGGCAGCTTCTGCCTCCACCCAGCAGCTTCAGGAGGTTAAAGCTAAATTACAGCAGTGCA
AAGCAGAGCTAAACTCTACCACTGAAGAGTTGCATAAGTATCAGAAAATGTTAGAACCAC
CACCCTCAGCCAAGCCCTTCACCATTGATGTGGACAAGAAGTTAGAAGAGGGCCAGAAGA
ATATAAGGCTGTTGCGGACAGAGCTTCAGAAACTTGGTGAGTCTCTCCAATCAGCAGAGA
GAGCTTGTTGCCACAGCACTGGGGCAGGAAAACTTCGTCAAGCCTTGACCACTTGTGATG
ACATCTTAATCAAACAGGACCAGACTCTGGCTGAACTGCAGAACAACATGGTGCTAGTGA
AACTGGACCTTCGGAAGAAGGCAGCATGTATTGCTGAGCAGTATCATACTGTGTTGAAAC
TCCAAGGCCAGGTTTCTGCCAAAAAGCGCCTTGGTACCAACCAGGAAAATCAGCAACCAA
ACCAACAACCACCAGGGAAGAAACCATTCCTTCGAAATTTACTTCCCCGAACACCAACCT
GCCAAAGCTCAACAGACTGCAGCCCTTATGCCCGGATCCTACGCTCACGGCGTTCCCCTT
TACTCAAATCTGGGCCTTTTGGCAAAAAGTACTAAGGCTGTGGGGAAAGAGAAGAGCAGT
CATGGCCCTGAGGTGGGTCAGCTACTCTCCTGAAGAAATAGGTCTCTTTTATGCTTTACC
ATATATCAGGAATTATATCCAGGATGCAATACTCAGACACTAGCTTTTTTCTCACTTTTG
TATTATAACCACCTATGTAATCTCATGTTGTTGTTTTTTTTTATTTACTTATATGATTTC
TATGCACACAAAAACAGTTATATTAAAGATATTATTGTTCACATTTTTTATTGAATTCCA
AATGTAGCAAAATCATTAAAACAAATTATAAAAGGGACAGAAAAATTAAGAATCAAACAT
CATTCTGGACCATGGGAACCTTGAAAAGGCATGGCAGTGGAGACCAGTAACTAGTATACA
GCTTGCCTGAGAAGGCTTAGTAACAAATGAATTCAAGTCGTATTAGATATTCTAAACCTT
CCTTAATATAAGATGAAGTGTCATATGTTAGGAGGTAAAAACGTAACACAAAATTCTGGG
AATAAGAATAAAGTCTGGACCCTGAGCTCAGAATGATCCATAGCATCTACTGTGCAAATA
TATTACAGCAGACATTATAGCATATTACCTCCTGCTGTACACACATGCACAGGCCTGAAA
CTCTCCAAGAGCACCATAAGAATGATTCCCTTTACCTCATCTAGATAAAGGCTGAAAAAA
ATGTATTCTGTTGCAGATGGGAGGGAAAAAAATAGACAATTACGTTGAAAATTTATTAAA
ACAGACCAGCTTGAAAAAAAAAAAAAAAAAACTCGAC

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_005733 unedited
GGATTTTGTAATACGACTCACTATTAGGGCGGCCGCGATTCGGCACGGNAGGGAGGAGCA
AGTGGCACGTCTTCGGACCTAGGCTGCCCCTGCCGTCATGTCGCAAGGGATCCTTTCTCC
GCCAGCGGGCTTGCTGTCCGATGACGATGTCGTAGTTTCTCCCATGTTTGAGTCCACAGC
TGCAGATTTGGGGTCTGTGCTACGCAAGAACCTGCTATCAGACTGCTCTGTCGTCTCTAC
CTCCCTAGAGGACAAGCAGCAGGTTCCATCTGAGGACAGTATGGAGAAGGTGAAAGTATA
CTTGAGGGTTAGGCCCTTGTTACCTTCAGAGTTGGAACGACAGGAAGATCAGGGTTGTGT
CCGTATTGAGAATGTGGAGACCCTTGTTCTACAAGCACCCAAGGACTCTTTTGCCCTGAA
GAGCAATGAACGGGGAATTGGCCAAGCCACACACAGGTTCACCTTTTCCCAGATCTTTGG
GCCAGAAGTGGGACAGGCATCCTTCTTCAACCTAACTGTGAAGGAGATGGTAAAGGATGT
ACTCAAAGGGCAGAACTGGCTCATCTATACATATGGAGTCACTAACTCAGGGAAAACCCA
CACGATTCAAGGTACCATCAAGGATGGAGGGATTCTNCCCCGGTCCCTGGCGCTGATCTT
CAATAGCCTCCAGGGCCAACTCATCCAACACCTGATCTGAAGCCCTTGCTCTCAAAATGA
GTATCTGGCTAGACAGCAAGCAGATCCGACAGGAGGAAATGAAGAAGCTGTCCCTGCTAA
TGGAGGCCTCCAAGAGGAGAGCTGTCCACTTCCTGAAGAAGGATGGCTACATCGAAAGTC
GGATAGGTACCACACCAGCTTCGCG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_005733 unedited
CAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCAAGCTGGTCTGTTTTAATAAATTTTC
AACGTAATTGTCTATTTTTTTCCCTCCCATCTGCAACAGAATACATTTTTTTCAGCCTTT
ATCTAGATGAGGTAAAGGGAATCATTCTTATGGTGCTCTTGGAGAGTTTCAGGCCTGTGC
ATGTGTGTACAGCAGGAGGTAATATGCTATAATGTCTGCTGTAATATATTTGCACAGTAG
ATGCTATGGATCATTCTGAGCTCAGGGTCCAGACTTTATTCTTATTCCCAGAATTTTGTG
TTACGTTTTTACCTCCTAACATATGACACTTCATCTTATATTAAGGAAGGTTTAGAATAT
CTAATACGACTTGAATTCATTTGTTACTAAGCCTTCTCAGGCAAGCTGTATACTAGTTAC
TGGTCTCCACTGCCATGCCTTTTCAAGGTTCCCATGGTCCAGAATGATGTTAGATTCTTA
ATTTTTCTGTCCCTTTTATAATTAGTTTTAATGATTTTGCTACATTTGGAATTCAATAAA
AAATGTGAACAATAATATCTTTAATATAACTGTTTTTGTGTGCATAGAAATCATATANGT
AAATAAAAAAAAACAACAACATGAGATTACATAGGTGGTTATAATACAAAAGTGAGAAAA
AAGCTAGTGTCTGAGTATTGCATCCTGGATATAATTCCTGATATATGGTAAAGCACTAAA
GAGACCTACTTTCTCCAGGAGAGTAGCTGACCCANCTNATGGCCATGACTGCTCTTCTCT
TTCCCACAGCCTTATTACTTNTTGCCAAAGGCCCANATTGAGTAAAGGGAACGCCTGAGC
GTNAGATCCGGCATAGGNCTGCATTCTGTTGAACTTANGCAGNTGTGGTCGGGAATAAAA
TTCACAAGATGGTTCTTCCTGGAGGTGTGGTTAGTTGCGATTTCCTGGTAGAACAAAGCG
CTTTGCAAACCTGCCTTGAGTCCACCAGTTGAACTGCTACATACTGCGCTT

**Restriction Sites:** NotI-NotI

**ACCN:** NM_005733

**Insert Size:** 3630 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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_005733.1, NP_005724.1

**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] |