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Product datasheet for MC224920

Kif20b (NM_183046) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif20b (NM_183046) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kif20b
Synonyms:	33cex; B130024C23; C330014J10Rik; magoo; Mphosph1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224920 representing NM_183046 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAATCTCACTTGAATCCAGATGGAGTGCCTAGACCGTCTTACGTTTTTAGTGCTGACCCAATTGCAA GGCCTTTGGAAATCAATTTTGATGGTGTTAAGCTTGATCTCTCTCATGAGTTTTCCTTAGTCGCCTCAAA CCCTGCGGCAAACAGTTTGGGATCTAAAAACTATCTTCAAGTTTGTCTTCGAATAAGACCATTTACACAG TCAGAAAAAGAACATGAGGCTGAGGGCTGTGTGCAAGTTTTGGATTCACAGTCTGTTCTGCTGAAAGACC CTCAAAGCATCCTTGGCCACTTAAGTGAGAAGAGCTCTGGACAGGTGGCACAGAAATTCAGTTTTTCTAA GGTTTTTGGACCTGAAACTTCACAGAAAGAGTTCTTTCTGGGTTGCATTATGCAGCCAGTAAAGGACCTC TTAGAAGGACACAGTCGACTGATCTTCACATATGGTCTGACCAATTCTGGAAAAACATATACATTTCAAG GCACAGAAGAAAATATTGGTATTTTGCCTAGAACACTGAATGTATTGTTTGATAGTCTTCAGGAAAGACT ATATACGAAGATGAGCTTCAAACCACACAGATGTAGAGAATACTTAAAATTATCATCTGATCAAGAGAAG GAGGAAAGTGCTAACAAAAATACATTGCTGCGACAAATTAAGGAGGTTACCATACATAATGACAGTTATG ACGTTCTTTGTGGACACTTAACAAACTCTTTGACTATCCCAGAATTTGAAGAATCCGTGAACAGTTGTGA CCAGTCCAGTCTGAATGTGGATAATATAAAGTATTCTGTGTGGGTTTCTTTCTTTGAAATTTACAATGAA AGTATTTACGATTTGTTTGTTCCTGTGTCCTCTAAGTTTCAAAAGAGAAAAATGTTACGACTTTCCCAAG ATATAAAGGGCTATTCTTTTATAAAAGATCTGCAGTGGGTCCAGGTATCTGACTCTAAAGAAGCATATAG ACTCTTAAAACTAGGAGTGAAGCATCAGAGCGTTGCTTTCACCAAACTGAACAATGCTTCTAGTAGAAGT CACAGCATATTCACTATTAGAATATTACAGATAGAAGATTCTGAAATACCTCGTGTAACACGAGTTAGTG AATTGTCTCTATGTGATCTTGCTGGTTCAGAACGAAGCATGAAGACACAAAACGAAGGTGAAAGGTTAAG AGAGGCTGGGAATATCAACACTTCTTTATTGACTCTGGGAAAGTGTATCAATGTTTTGAAGAACAGTGAA AAGTCAAAGGTTCAGCATGTGCCTTTCCGAGAAAGTAAACTGACCCACTATTTCCAAAGTTTTTTCACTG GAAAAGGGAAAATATGCATGATCATCAATATTAGTCAGTCTTGCTCTGCCTATGATGAGACACTCAATGT CCTGAAGTTCTCAACCACTGCGCAAAGGGTCTATGTTCCGGATACTTTAAGTTCTTCTCAAGAGAAATCT TTTGCATCTAACAAATCTTTACAAGATGTATCATTAGACAGTAATTTGGACAATAAAATACTAAATGTAA

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AATAA

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ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_183046

Insert Size: 5325 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_183046.1, NP_898867.1

RefSeq Size: 5563 bp

RefSeq ORF: 5325 bp

Locus ID: 240641

UniProt ID: Q80WE4

Cytogenetics: 19 C1

Gene Summary: Plus-end-directed motor enzyme that is required for completion of cytokinesis (By similarity). Required for proper midbody organization and abscission in polarized cortical stem cells (PubMed:24173802). Plays a role in the regulation of neuronal polarization by mediating the transport of specific cargos. Participates in the mobilization of SHTN1 and in the accumulation of PIP3 in the growth cone of primary hippocampal neurons in a tubulin and actin-dependent manner (PubMed:23864681). In the developing telencephalon, cooperates with SHTN1 to promote both the transition from the multipolar to the bipolar stage and the radial migration of cortical neurons from the ventricular zone toward the superficial layer of the neocortex (PubMed:23864681). Involved in cerebral cortex growth (PubMed:24173802). Acts as an oncogene for promoting bladder cancer cells proliferation, apoptosis inhibition and carcinogenic progression (By similarity).[UniProtKB/Swiss-Prot Function]