

Product datasheet for MC224215

Kif16b (NM_001081133) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kif16b (NM_001081133) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kif16b
Synonyms: 8430434E15Rik; AA623607; AI789011; C80253; C80902; mKIAA1590
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224215 representing NM_001081133
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCATCGGTCAAGGTGGCCGTGAGAGTCCGGCCATGAATCGCAGGGAAAAGGACCTGGAGGCCAAGT
 TCATCATTCAAATGGAGAAAAGCAAACGACAATCACAACTTAAAGATACCAGAAGGAGGAAGTGGGA
 TTCAGGCAGAGAACGGACCAAGACCTTACCTATGACTTCTCTTTTATTCTGCTGACACCAAGAGTCCA
 GATTATGTCTACAAGAAATGGTTTTCAAACCTCTGGGTACAGATGTTGTGAAATCTGCATTTGAAGTT
 ACAATGCTTGTCTTTGCATATGGGCAAACCTGGATCTGGAAAGTCTACACCATGATGGAAAATCTGG
 CGATTCTGGCTTAATACCTCGGATCTGTGAAGCTCTTTCAGTCGGATCAATGAAACCACTAGATGGGAT
 GAAGCCTCTTTCAGGACAGAAGTCAGCTACTTAGAAATTTATAATGAACGTGTGAGAGACCTACTTAGGC
 GGAAGTCATCTAAGACCTTCAATTTAAGAGTCCGTGAGCATCCCAAGAAGGACCGTACGTTGAGGATTT
 ATCCAAGCATTTAGTCCAGAACTACAGTGATGTGGAGGAACTCATGGACGCAGGAAATATCAATCGCACC
 ACCGCAGCGACGGGGATGAATGATGTGAGTGCAGTCCCACGCCATCTCACCATCAAGTTCACCTCAGG
 CAAAATTCGACGCTGAAATGCCATGTGAACTGTGAGCAAGTCCACCTCGTGCATCTTGTCTGGAAGTGA
 CGGGGCAGATGCCACCGTGGCCACTGGGGTCAGACTCAAGGAAGGGGCAATATAACAAGTCCCTTGTG
 ACTCTGGGAAATGTCATTTCTGCCTTAGCTGATTTATCTCAGGATGCAGCCAACCTCTTGTGAAGAAGA
 AGCAAGTTTTTGTGCCTTACAGGGATTCAGTTTTGACTTGGCTGTTGAAAGACAGCCTTGGAGGAAACTC
 TAAACCATCATGATTGCCACCATTTACCTGCTGATGTCAATTATGGAGAAACCCTAAGTACCCTTCGC
 TATGCAAATAGAGCCAAAACATCATCAACAAGCCTACCATTAATGAGGATGCCAACGTCAAACCTCATCC
 GTGAGCTGAGAGCTGAAATAGCCAGGCTGAAAACCTGCTCGCTCAAGGGAACCAGATTGCCCTCTTGA
 CTCCCCTACAGCTTTAAGTATGGAGGAAAACCTCACCAGAATGAAGCAAGAGTCCAAGAATTGACCAAG
 GAATGGACAAACAAGTGAATGAAACCCAGAATATTTTGAAGAGCAAACCTTAGCCCTCAGGAAAGAGG
 GCATTGGTGTGGTCTGACTCGGAGCTGCCGCACCTAATTGGCATTGATGATGATCTTCTGAGCACTGG
 AATCATCTTGATCACTTGAAGGAGGTCAGACTTACGTCGGCAGAGAAGATGCTTCAACAGAGCAAGAT
 ATTGTCCTTATGGCCTTGAAGTGGAGAGTGAGCACTGTGCTTTGAGAAGCCGGGGGAACAGTGACTC



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TGATACCCCTGAGAGGGTCCCAATGCTCTGTGAATGGTGTTCAGATTGTGGATGCCACGCAGCTAAATCA
 AGGTGCTGTGATACTCTTGGGAAGAACCAACATGTTCCGCTTTAACCATCCGAAGGAAGCCGCAAGCTT
 AGGGAGAAGAGGAAGAGTGGCCTCCTGTCTCCTCAGCTTGCTATGACCGACCTCTCAAAGTCTGTG
 AGAACCTGTCTGCAGTCATGTTGTATAACCCTGGACTTGAGTTTGAGAGACAACAGCGTGAAGAATTGA
 AAAACTCGAAAGTAAAAGGAACTCATTGAGGAGATGGAGGAAAAGCAGAAGTCGGACAAGGCAGAACTA
 GAGCGAATGCAGCAGGAGGTAGAGACCAGGCGCAAGGAAAACAGAGATTGTGCAGCGGCAAATCCGCAAGC
 AGGAGGAAAGCCTCAAACGCCGACGTTCCACATTGAAAACAAGCTCAAGGACCTGCTGGCTGAGAAGGA
 AAGGTTTGAGGAAGAGAGGCTTCGGGAGCAGCAGGGACTCGAGCAGCAGAGGAGGCAAGGGAAGAGAGC
 TTATTCGCATCAGAGAAGAGCTTCGCAAACTCCAAGAGCTCAACAGCCACGAACAGCTGAGAAGTCC
 AGATATTCAGGAGCTGGACCGATTGCACCAAGAGCAAAATGCCAGAGTGCCAAGCTGCGGTTGGAGAA
 AAGGAGGCTGGAGGAGGAGGAGAAGGAGCAGGTGCAGCGGGTGGCACACCTGGAGGAGCAGCTTCGGAAG
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 AAAGCATCCGGGAAGCCCTTTTGCAGGCCAAAGAGATGAGAGCTGGAGGGGACCATACCTGTAGGGATGA
 ACTGGAAGGGCTCAGCAGTACTTCTTAGAGTTCAAGAGAAGGCAGCTTGTCAAGCTAGCAAGCCTGGAG
 AAGGACCTGGTCCAACAGAAAGACCTCCTAAGCAAAGAAGTCCAAGAAGAGAAAGTACTGCTGGAGCATG
 TAAATGTGACGAGGGGTGACCCGAGCTTCTGGCAACAGATGATGGCAACATTCTCGGTGGGCCTCC
 AGATCTAGACAAAATAAAGACTGCAGAGACCAGGCTACAGAGCAGAGAGACCAGCTACAGGACCTTCTG
 CAAAATCATTTGCCAGCTCTGCTGGAAGAAAAGCAGAGAGTGCTTGATGCCCTTGACAGTGGTGTCTAG
 GCCTAGACACCACTCTCTGCCAAGTAGAGAAAAGTGGGAGAGAAAAGAGCAGATCGCACAGTACCA
 GGCTAATGCTAGCCAGCTGCAACAGCTCCGGGCCACCTTCGAGTTCACAGCTAACGTGGCCAGACAGGAA
 GAGAAGGTGAGAAGAAAGGAAAAGGAAACTGGAGTCCCAGGAGAAAACAGCAAAGAGAGGCATTGGAGC
 AGGCTGTGGCTAAGCTAGAGCAGAGCGCTCTGCCCTGCAGCGGTGCTCCACCCTGGACCTGGAGATCCA
 GGAGCAGAGGCAGAAACTTGGCTCTCTCCACACCAGTGAATGGTCAGGGTGGCAGGCCAGTCTGGAGACT
 GATGGAGAAGCACTTGAGATGGACCCTGCAAGGTTAGAACATGAAATCCATCAGCTGAAGCAGAAGATCT
 GTGAAGTAGATGGTGTTCAGAGACCTCATCATGGGATTTAGAGGGGAGGCCGTTCTCTCCAGCTTGCC
 ACCCAGTGGGGAAACTCTCACCTGGCTCCACTGATGGATGCCAGGATCAGTGCTTACATTGAAGAAGAA
 GTCCAGAGACGCCTTCATGATTTGCACAGGGCAATTGGTGATGCCAACCATACACCTGCTGATGTGATGA
 AGAGTAATGAGGAACTTCACAATGGCACCCTCAACGTAAGCTAAAGTATGAGCGGATGATTCTCGCTC
 TTTGGGAACAAATCGAGACGACCTGAAGGACCCATTAAGATTAGTATTCCTCGCTATGCTCTGTGTGGC
 CAAGGGAAGGACGAGCACTTCGAGTTTGAAGTGAAGATTTCTGCTAGATGAGACATGGACTGTATTCA
 GGCCTACAGTCGTTTTTCGAGAAATGCATAAAACATTGAAGCTAAAGTATGCAGAGCTCGTCTCTTGA
 ATCCCCCAAAGAAGCTGTTTGGAAACAAGACGAGCGGGTAGTTGCTGAGCGGGACACACTTAGAG
 AAATACCTCAGGGAGTTTTTCAGTGTGATGCTCCAGTCCGAGACATCTCCCTTCACATCAACAAAGTGG
 GACTGACCCTGTCCAAGCACACCATTTGTGAATCTCACCATTCTCAAGAAAGGAGTTTTTGTACTACAG
 CAGCCATGGGACAGGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001081133

Insert Size:

3939 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_001081133.2](#), [NP_001074602.1](#)

RefSeq Size: 5446 bp

RefSeq ORF: 3939 bp

Locus ID: 16558

UniProt ID: [B1AVY7](#)

Cytogenetics: 2 G1

Gene Summary: Plus end-directed microtubule-dependent motor protein involved in endosome transport and receptor recycling and degradation. Regulates the plus end motility of early endosomes and the balance between recycling and degradation of receptors such as EGF receptor (EGFR) and FGF receptor (FGFR). Regulates the Golgi to endosome transport of FGFR-containing vesicles during early development, a key process for developing basement membrane and epiblast and primitive endoderm lineages during early postimplantation development.
[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data.