

Product datasheet for **MR230842**

Kif2c (NM_001290662) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif2c (NM_001290662) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kif2c
Synonyms:	4930402F02Rik; ESTM5; Kns16; MCAK; X83316
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230842 representing NM_001290662
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATTGACATTGACGATGTGGCTGCAATAAACCCAGAGCTCCTACAGCTTCTTCCCTTACGACCGAAGG
 ACAGTCTGCCACTGCAGGAAAACGTAACGGTCCCGAAGCAAAAACGCAAAATCAGTCAACTCCAAAATTCC
 AGCTCTAAAAGAAGGCCTTCGAAGCCGCTCCACTCGCATGTCCACTGTCTCAGAAGTTCGAATCCCTGCT
 CAGGAGAAATGAAATGGAGGTGGAGCTGCCTGTGCCTACAACTCTCGCAAGCAGTTTGCCATTCCCAGCC
 ACCCTCGGCCTCCTGCTCCACAGTGACAGAATTGCCGTTGTTGATGGTCAGTGAGGAGGCAGAAGAGCA
 AGCCCACTCCACCCGAGTACCTCATCTGCAAACCTGGGAACTCAGTTCGGAGGAAATCGTGTATCGTG
 AAGGAGATGGAGAAAATGAAGAACAAGCGTGAAGAGAAGAGGGCCAGAACTCGGAGCTAAGAATAAAGC
 GAGCACAGGAATATGACAGCAGCTTCCAACTGGGAATTTGCCGGATGATCAAAGAATTCGGGTTAC
 TATGGAATGTAGCCCGTACTGTGACAGACCCTATCGAAGAGCACAGGATCTGTGTCTGTGTCAGGAAA
 CGCCCACTGAATAACAAGAAGTGGCCAAGAAAGAAATCGATGTGATTTCTGTTCCAGCAAGTGTCTCC
 TCTGGTGCATGAACCAAGTAAAAGTGGACTTAACGAAGTACCTGGAGAACCAAGCTTCTGCTTTGA
 CTTTGCATTTGATGAGACAGCTTCCAATGAAGTTGTCTACAGGTTACAGCAAGGCCACTGGTACAGACG
 ATTTTTGAAGGGGAAAAGCAACATGCTTTGCCTATGGACAGACAGGCAGTGGGAAGACACATACAATGG
 GTGGAGATCTGTCTGGTAAAAGTCAAGCAGCATCTAAAGGGATCTACGCCATGGCTTCCCGGGATGTCTT
 CCTTCTGAAGAACCAGCTCGGTACCGAACTTAACTTGAAGTTTATGTGACATCTTCGAGATCTAC
 AATGGGAAGGTGTTTGTCTGCTCAACAAAAGGCCAAGTTACGTGTGCTGGAGGACAGCAGGCAGCAGG
 TGCAGGTTGTGGACTGCAGGAGTACCTGGTACCTGTGCTGATGATGTCATCAAGATGATCAACATGGG
 CAGTGCCTGCAGGACTTCTGGACAAACATTTGCCAACTCCAATTCTCCCGCTCCACGCCTGCTTCCAG
 ATTCTTCTCGAACTAAAGGGAGATTACATGGCAAATCTCTTTGGTGGATCTGGCAGGGAATGAACGAG
 GGGCCGACACATCTAGTCTGACCGGCAGACTCGCATGGAGGGAGCAGAAATTAACAAGTCTCTCTGGC
 TCTGAAGGAGTGCATCCGGGCGCTGGGACAGAACAAGGCTCACACCCCGTTCGAGAGCAAGCTGACC
 CAGGTGCTGAGGGACTCGTTCATTGGGGAGAAGTCAAGGACCTGCATGATCGCCATGATCTCACCAGGCA
 TAAGCTCCTGTGAATACACCTTAAACACGCTGAGATACGCAGACAGAGTCAAGGAGCTAAGCCCCACAG
 CGGACCCAGTGGAGAGCAGCCGTTTCAAGTGAAGGAGGATGATGGAAGCCAGCTCTAATGGGACGTCT
 CTGACTGGCAATGAAGAGGAGGAGCTGTCTTCCAGATGTCCAGCTTTAATGAAGCCATGACTCAGATCA
 GGGAGCTGGAAGAGAGGGCCCTGGAAGAGCTCAGAGAGATCATACAGCAAGGACCAAACTGGCTTGAAGT
 CTCCGAGATGACAGATACGCCAGACTATGACTTGGAGACCTTTGTGAACAAGCAGAATCTGCCCTGACA
 CAGCAGGCTAAGCAGGCGAAGCACTTCTCAGCCCTTCGAGAAGTCATCAAGGCCCTGCGCCTAGCCATGC
 AACTGGAAGAACAGGCTAGCAAACAAATAAACAGCAAGAAACGGCACCAA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230842 representing NM_001290662
Red=Cloning site Green=Tags(s)

MIDIDDVAAINPELLQLLPLRPKDSLPLQENVTPVKQKRKSVNSKIPALKEGLRSRSTRMSTVSEVRIPA
 QENEMEVELPVPTNSRKQFAIPSHPRASCSTVTEPLLMVSEEAEQAHSTRSTSSANPGNSVRRKSCIV
 KEMEKMNKREEKRAQNSLRKRAQEQYDSSFPNWEFARMIKEFRVTMECSPLTVTDPIEEHRICVCRK
 RPLNKQELAKKEIDVISVPSKCLLLVHEPKLKVDLTKYLENQAFCFDFAFDETASNEVVYRFTARPLVQT
 IFEGGKATCFAYGQTGSGKTHTMGGDLGKSKQNASKGIYAMASRDVFLLNQPRYRNLNLEVYVTFEIIY
 NGKVFDDLNNKAKLRVLEDSRQQVQVVLQEQYLVTCADDVIKMINMGSACRTSGQTFANSNRSRSHACFQ
 ILLRRTKGR LHGKFSLVDLAGNERGADTSSADRQTRMEGAEINKSLLALKECIRALGQNKHAHTPFRESKLT
 QVLRDSF IGENSRTCMIAMISPGISSCEYTLNLTLYADRVKELSPHSGPSGEQPVMETEVMEASSNGTS
 LTGNEEEELSSQMSFNEAMTQIRELEERAL EELREIIQQGPNWLELSEMTDQPDYDLETFVNKAESALT
 QQAKQAKHFSALREVIKALRLAMQLEEQASKQINSKRRHQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001290662

ORF Size: 2010 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:

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_001290662.1](#), [NP_001277591.1](#)

RefSeq Size: 2792 bp

RefSeq ORF: 2013 bp

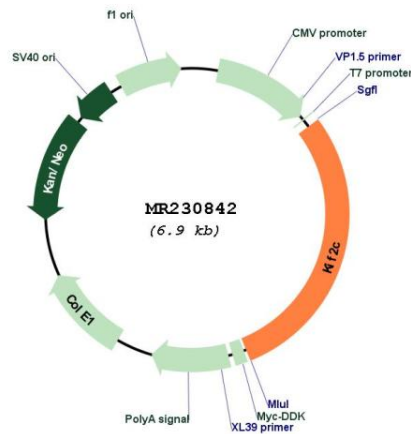
Locus ID: 73804

Cytogenetics: 4 53.42 cM

MW: 76 kDa

Gene Summary: In complex with KIF18B, constitutes the major microtubule plus-end depolymerizing activity in mitotic cells (PubMed:14980225). Regulates the turnover of microtubules at the kinetochore and functions in chromosome segregation during mitosis. Plays a role in chromosome congression and is required for the lateral to end-on conversion of the chromosome-microtubule attachment (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230842