

Product datasheet for **RC235321**

KIF21B (NM_001252103) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KIF21B (NM_001252103) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: KIF21B
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235321 representing NM_001252103
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGCCAGGGGACTGCTGCGTCAAGGTGGCCGTCAAGGATCCGGCCCCAGCTGTGCAAGGAGAAGA
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ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC235321 representing NM_001252103
 Red=Cloning site Green=Tags(s)

MAGQGDCCKVAVRIRPQLSKEKIEGCHICTSVTPGEPQVLLGKDKAFTYDFVFDLDTWQEQIYSTCVSK
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 AARLKWQSLERRIIDIVMQRMTIVNLEADMERL IKKREELFLLQEALRRKRERLQAESPEEEKGLQELAE
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 RVSRTVSLPTRGSTFPRQSRATE SPLTRRKS YDRGQPIRSTDVGFTPPSPPTPRNDRNVF SRLTSNQ
 SQGSALDKGIISPVGAKGARTAPLQCVSMAEGHTKPI LCLDATDELFTGSKDRSCKMWNLV TQGEIAA
 LKQHPNNVVS IKYCSHSLVFSVSTSYIKVWDIRDSAKCIRTLTSSGQV ISGDACAATSTRAITSAQGEH
 QINQIALSPSGTMLYAAAGNAVRIWELSRFPV GKL TGHIGPVMCLT VQTASQHDLVVTGSKDHVYKMF
 ELGECVTGTIGPTHNFEPHYDGI ECLATQGDILFSGSRDNGIKKWDLDQQELIQQIPNAHKDWVICALAF
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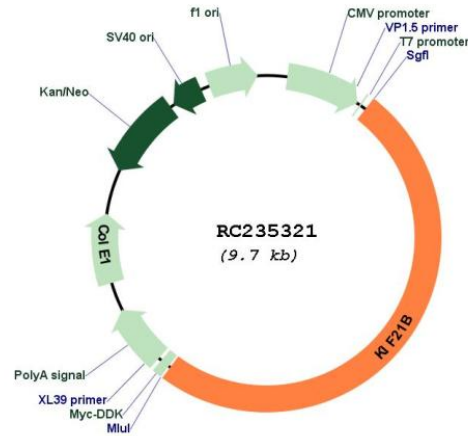
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001252103

ORF Size: 4830 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:	<u>NM_001252103.2</u>
RefSeq Size:	9300 bp
RefSeq ORF:	4833 bp
Locus ID:	23046
UniProt ID:	<u>O75037</u>
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome
MW:	180.2 kDa
Gene Summary:	<p>This gene encodes a member of the kinesin superfamily. Kinesins are ATP-dependent microtubule-based motor proteins that are involved in the intracellular transport of membranous organelles. Single nucleotide polymorphisms in this gene are associated with inflammatory bowel disease and multiple sclerosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]</p>