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Product datasheet for RR204217

Kif18b (NM_001039019) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif18b (NM_001039019) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kif18b
Synonyms:	RGD1310360
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RR204217 representing NM_001039019
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGATGGCTGTGGAAGACAGCGTGGTTCGGGTGGTCGTGCGGGTGAGGCCTCCCACCCCTAAGGAAC
TAGAGAGTCAGCGTCGGCCTGTGATTCAGGTGGTAGATGAGCGGATGCTGGTGTTTGACCCCGAGGAGTG
TGATGGGGGATTTCCTGGCCTAAAATGGAGTGGCTCCCTCAGTGGCCCCAAGAAGAAGGGCAAAGACCTG
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GACACACACCATGCTGGGAAGGGAGGGAGACCCTGGCATCATGTACCTGACCACCATGGAACTGTACCGG
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AAGGAGATCAGACTCACGCTGAAGAGCAACGTGATCAGCCTGGACCATCACATCAGTCAGTATGCCACCA
TCTGCCAGCAGCTCCAGGCTGAGGTGGCTGCTCTGAGAGAGAAGCTCCAGACATATGAGGCTGGAGCCCA
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TCCCCAGTAGCACCTTGAAGAAGCCAGACCGACCCTTCACAGTCCCAGATCCACCCTTGAGCCTCCACTG
CCTTGATGACCATCAAGTCATAAGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204217 representing NM_001039019
Red=Cloning site Green=Tags(s)

MVMAVEDSVVRVVVRVRPPTPKELESQRRPVIQVVDERMLVFDPEECDGGFPGLKWSGSLSGPKKKGKDL
TFVFDRVFSEVATQQDVFQHTTHNILDSFLQGYNCSVFAYGATGAGKTHTMLGREGDPGIMYLTTMELYR
RLEACQEEKQFEVLISYLEVYNEQIYDLLEPKGPLTIREDPDKGVVVPGLSFHQPASAQQLLEMLTRGNC
SRTQHPTDANATSSRSHAIFQIFVKQQDRVPGLTQALRVAKMSLIDLAGSERASSTHAKGERLREGANIN
RSLLALINVLNALADAKGRKSHVPYRDSKLTRLLKDSIGGNCRTVMIAAVSPSSLTYEDTYNTLKYADRA
KEIRLTLKSNVISLDHHISQYATICQQLQAEVAALREKLQTYEAGAQALQQRSPQPPKLSIPQNLSSSPL
QPGHSSQSCAPEFHAKYDAPQEESLGTDSQGQGTVEENAPEQEQPPQDKQFPTQMPEPNLPGSPCPTVQA
KQGMNQHSLQRLDAEHSKQLALRVLRLAQRQYSLLQAANLLTPDMISEFETLQQLVLEESMEHGAESPRS
PGLARGIPLAQELCSESKSSRYCGPVTRTMAKQLSGLTHTLGIPLAPDCTSDKTSQKPTKEKKRKLNLEE
PGSLPAPSVEMKRQRQSFLPCLRRGSLPKIQPSSEPRTPKGERASSPSPSSRVCPATVIKSRVPLGPSAL
QNCSTPLTLPTRDLNTTFNVSEESPSKPSFPEPIDWEKVSPELNGTDQPFLPSAPVFIFTTKGRKPSLPT
TTASKKRRTVRPSVSRGRSCIARLPSSTLKKPDRPFTVPDPPLSLHCLDDHQVIRD

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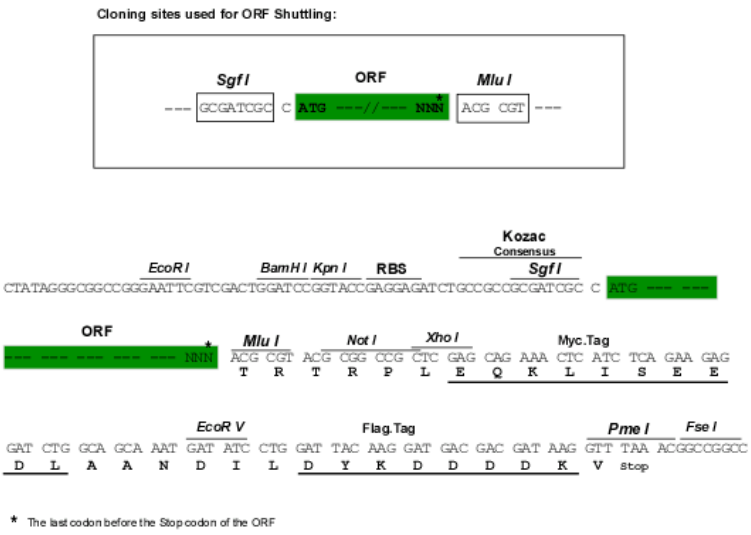
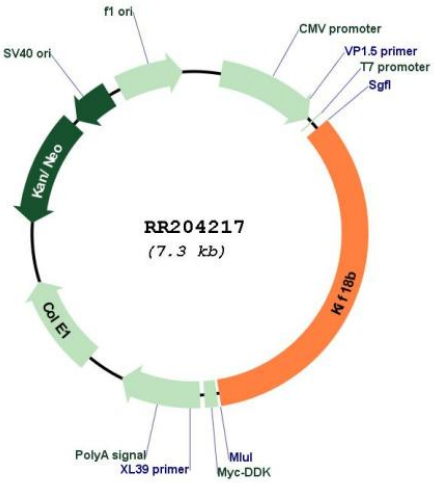
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001039019
ORF Size:	2478 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_001039019.1, NP_001034108.1
RefSeq Size:	3318 bp
RefSeq ORF:	2481 bp
Locus ID:	303575
UniProt ID:	Q4KLL9

Cytogenetics:	10q32.1
MW:	91.2 kDa
Gene Summary:	In complex with KIF2C, constitutes the major microtubule plus-end depolymerizing activity in mitotic cells. Its major role may be to transport KIF2C and/or MAPRE1 along microtubules (By similarity).[UniProtKB/Swiss-Prot Function]