OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RR206635

Kif5b (NM_057202) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif5b (NM_057202) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kif5b
Synonyms:	Khc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR206635 representing NM_057202
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGACCCGGCGGAGTGCAACATCAAAGTGATGTGTCGCTTCAGACCTCTCAACGAGTCTGAAGTGA
ACCGCGGCGACAAGTATGTCGCCAAGTTCCAGGGAGAAGACACGGTGATGATTGCGTCCAAGCCTTATGC
ATTTGATCGTGTGTTCCAGTCAAGCACATCTCAAGAGCAAGTATACAACGATTGTGCAAAGAAGATTGTT
AAAGATGTTCTTGAGGGCTATAATGGAACAATATTTGCATATGGACAAACATCATCTGGAAAGACCCACA
CAATGGAGGGTAAACTTCATGATCCAGAAGGCATGGGGATTATTCCAAGAATAGTGCAAGATATTTTTAA
TTATATTTACTCCATGGATGAAAATTTGGAATTTCATATTAAGGTTTCATATTTTGAAATATATTTGGAT
AAGATAAGGGACCTGTTAGATGTTTCAAAGACTAACCTTTCAGTCCATGAAGACAAAAACCGTGTTCCCT
ATGTAAAGGGGTGCACAGAGCGTTTTGTGTGTAGTCCAGATGAAGTTATGGATACCATAGATGAAGGGAA
ATCCAACAGACACGTAGCAGTTACAAATATGAATGAACATAGCTCTAGGAGTCACAGTATATTTCTTATC
AATGTAAAGCAAGAGAATACACAGACAGAACAGAAACTCAGTGGGAAGCTTTATCTGGTTGATTTAGCTG
GAAGTGAAAAGGTTAGTAAAACTGGAGCTGAGGGTGCCGTGCTGGATGAAGCTAAGAACATCAACAAGTC
ACTTTCTGCACTTGGAAATGTCATTTCTGCTTTGGCAGAAGGCAGTACCTATGTTCCTTATCGAGACAGT
AAAATGACCAGAATTCTTCAAGATTCATTAGGTGGCAACTGTAGGACCACTATTGTCATTTGCTGCTCTC
CGTCATCTTACAATGAGTCTGAGACAAAGTCAACACTCCTCTTTGGTCAAAGGGCCAAAACAATAAAGAA
CACAGTCTGTGTCAACGTAGAGTTAACTGCAGAGCAGTGGAAAAAGAAGTATGAAAAAGAAAAGGAAAAA
AATAAGACTCTACGGAACACCATTCAGTGGCTGGAAAACGAGCTCAACCGATGGCGTAACGGGGAAACAG
TGCCTATTGATGAGCAGTTTGACAAAGAGAAGGCTAATTTGGAAGCCTTCACAGCAGATAAAGATGTTGC
TATTACCAATGACAAACCGGCTGCTGCAATCGGAATGGCTGGTAGTTTTACAGATGCTGAGAGAAGAAAG
TGTGAAGAAGAAATTGCTAAATTGTATAAACAACTTGATGACAAGGATGAAGAGATTAACCAACAGAGCC
AACTGGTGGAGAAATTGAAGACACAAATGTTGGATCAGGAAGAGCTTCTGGCATCAACCAGAAGGGATCA
AGATAATATGCAAGCTGAACTGAATCGCCTCCAAGCAGAAAATGATGCTTCTAAAGAAGAAGTCAAAGAA
GTTTTACAGGCCTTAGAGGAGCTGGCTGTTAATTATGATCAGAAGTCTCAGGAAGTTGAAGACAAAACAA
AGGAATATGAATTGCTTAGTGATGAATTGAATCAAAAATCTGCAACTTTAGCAAGTATTGATGCTGAGCT
TCAGAAGCTGAAGGAAATGACCAACCACCAGAAGAAACGAGCAGCTGAAATGATGGCATCATTACTAAAA
GACCTTGCAGAAATAGGAATTGCTGTGGGAAATAATGATGTAAAGCAACCGGAGGGGACTGGTATGATAG
ATGAAGAGTTTACTGTTGCAAGGCTCTACATTAGCAAAATGAAATCAGAAGTAAAAACCATGGTGAAACG
CTGCAAACAGCTAGAAAGCACACAGACTGAGAGCAACAAAAAAATGGAAGAAAATGAGAAGGAGTTAGCA
GCATGCCAGCTTCGTATCTCCCAACATGAAGCCAAAATCAAGTCACTGACTGAATACCTTCAAAATGTAG
AACAAAAGAAGAGACAGCTGGAGGAATCTGTGGACTCCCTTGGTGAGGAGCTAGTCCAACTTCGAGCACA
AGAGAAAGTCCATGAAATGGAAAAAGAGCACTTGAACAAGGTTCAGACTGCAAATGAAGTCAAGCAAGCT
GTTGAACAGCAGATCCAGAGTCACAGAGAAACCCACCAAAAACAAATCAGTAGTTTACGAGATGAAGTTG
AGGCAAAGGAAAAGCTAATCACTGATCTCCAAGACCAAAACCAGAAGATGGTGTTGGAACAGGAGCGGCT
AAGGGTGGAGCATGAGAGGCTAAAGGCTGTAGACCAGGAGAAGAGCAGGAAGCTGCATGAGCTCACGGTT
ATGCAAGACAGACGAGAACAAGCAAGGCAAGATTTGAAGGGGTTGGAAGAGACGGTGGCAAAAGAACTTC
AGACTTTACACAACCTGCGCAAGCTCTTTGTTCAGGACTTGGCTACCAGGGTGAAAAAGAGCGCTGAGGT
GGACTCAGACGACACTGGCGGCAGTGCTGCACAGAAGCAGAAAATCTCCTTCCTTGAAAACAATCTGGAG
CAGCTCACCAAAGTGCACAAGCAGTTGGTGCGTGATAATGCAGATCTTCGCTGTGAACTTCCTAAGTTAG
AGAAACGACTTAGAGCTACTGCAGAGAGAGTGAAAGCTTTGGAGTCAGCCCTGAAAGAAGCCAAAGAAAA
TGCATCTCGAGACCGCAAACGCTATCAGCAAGAAGTAGACAGGATAAAGGAAGCAGTCAGGTCAAAGAAT
ATGGCCAGAAGGGGACACTCTGCACAGATTGCAAAACCTATCCGTCCTGGACAGCATCCAGCAGCCTCTC
CAACTCACCCCGGTGCAGTTCGTGGAGGAGGCTCATTTGTTCAGAACAACCAGCCAGTGGGGCTTCGAGG
TGGTGGAGGCAAGCAGGCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206635 representing NM_057202
Red=Cloning site Green=Tags(s)

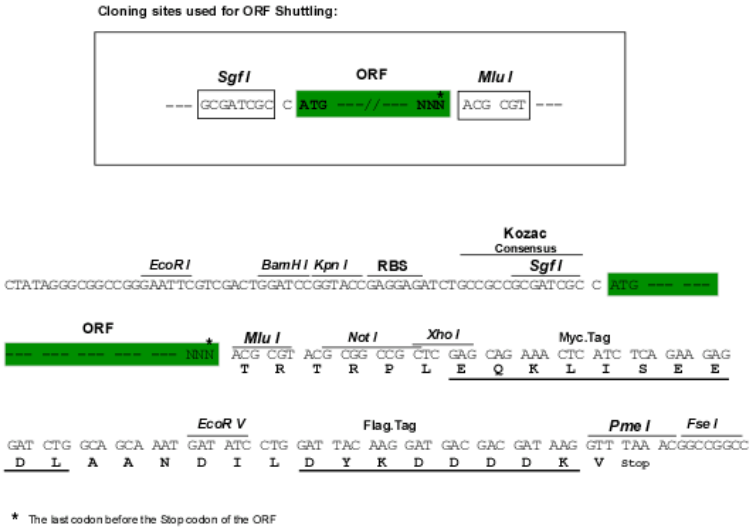
MADPAECNIKVMCRFRPLNESEVNRGDKYVAKFQGEDTVMIASKPYAFDRVFQSSTSQEQVYNDCAKKIV
KDVLEGYNGTIFAYGQTSSGKTHTMEGKLHDPEGMGIIPRIVQDIFNYIYSMDENLEFHIKVSYFEIYLD
KIRDLLDVSKTNLSVHEDKNRVPYVKGCTERFVCSPDEVMDTIDEGKSNRHVAVTNMNEHSSRSHSIFLI
NVKQENTQTEQKLSGKLYLVDLAGSEKVSKTGAEGAVLDEAKNINKSLSALGNVISALAEGSTYVPYRDS
KMTRILQDSLGGNCRTTIVICCSPSSYNESETKSTLLFGQRAKTIKNTVCVNVELTAEQWKKKYEKEKEK
NKTLRNTIQWLENELNRWRNGETVPIDEQFDKEKANLEAFTADKDVAITNDKPAAAIGMAGSFTDAERRK
CEEEIAKLYKQLDDKDEEINQQSQLVEKLKTQMLDQEELLASTRRDQDNMQAELNRLQAENDASKEEVKE
VLQALEELAVNYDQKSQEVEDKTKEYELLSDELNQKSATLASIDAELQKLKEMTNHQKKRAAEMMASLLK
DLAEIGIAVGNNDVKQPEGTGMIDEEFTVARLYISKMKSEVKTMVKRCKQLESTQTESNKKMEENEKELA
ACQLRISQHEAKIKSLTEYLQNVEQKKRQLEESVDSLGEELVQLRAQEKVHEMEKEHLNKVQTANEVKQA
VEQQIQSHRETHQKQISSLRDEVEAKEKLITDLQDQNQKMVLEQERLRVEHERLKAVDQEKSRKLHELTV
MQDRREQARQDLKGLEETVAKELQTLHNLRKLFVQDLATRVKKSAEVDSDDTGGSAAQKQKISFLENNLE
QLTKVHKQLVRDNADLRCELPKLEKRLRATAERVKALESALKEAKENASRDRKRYQQEVDRIKEAVRSKN
MARRGHSAQIAKPIRPGQHPAASPTHPGAVRGGGSFVQNNQPVGLRGGGGKQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1847_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

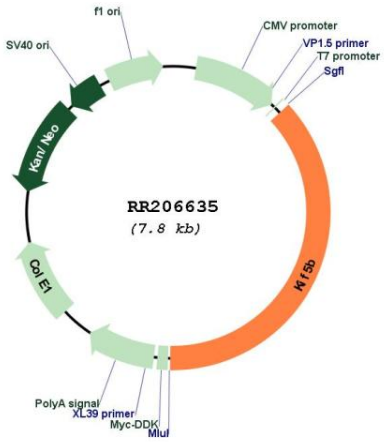


ACCN: NM_057202

ORF Size: 2889 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_057202.1, NP_476550.1
RefSeq Size:	2892 bp
RefSeq ORF:	2892 bp
Locus ID:	117550
UniProt ID:	Q2PQA9
Cytogenetics:	17q12.1
MW:	109.5 kDa
Gene Summary:	mouse homolog is the heavy chain of kinesin; essential for mitochondrial and lysosomal dispersion [RGD, Feb 2006]

Product images:



Circular map for RR206635