

Product datasheet for **RC201487**

MOBK1B (MOB1A) (NM_018221) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOBK1B (MOB1A) (NM_018221) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MOBK1B
Synonyms:	C2orf6; MATS1; MOB1; Mob4B; MOBK1B; MOBKL1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201487 representing NM_018221 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTTCCTCTTCAGCAGCCGCTCTTCTAAACATTCAAACCAAAGAAGAATATCCCTGAAGGATCTC
 ATCAGTATGAACCTCTAAACATGCAGAAGCAACTCTAGGAAGTGGGAATCTGAGACAAGCTGTTATGTT
 GCCTGAGGGAGAGGATCTCAATGAATGGATTGCTGTGAACACTGTGGATTCTTTAACCAGATCAACATG
 TTATATGGAATATTACAGAATTCTGCACTGAAGCAAGCTGTCCAGTCATGTCTGCAGGTCGAGATATG
 AATATCACTGGGCAGATGGTACTAATATTAAGCAATCAAATGTTCTGCACCAAAATACATTGACTA
 TTTGATGACTTGGGTTCAAGATCAGCTTGATGATGAACTCTTTTCCTTCTAAGATTGGTGTCCCATTT
 CCCAAAACTTTATGTCTGTGGCAAAGACTATTCTAAAGCGTCTGTTTCAGGGTTTATGCCATATTTATC
 ACCAGCACTTTGATTCTGTGATGCAGCTGCAAGAGGAGGCCACCTCAACACCTCCTTTAAGCACTTTAT
 TTTCTTTGTTTCAGGAGTTAATCTGATTGATAGGCGTGAGCTGGCACCTCTTCAAGAATTAATAGAGAAA
 CTTGGATCAAAAGACAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC201487 representing NM_018221
 Red=Cloning site Green=Tags(s)

MSFLFSSRSSKTFKPKNIPEGSHQYELLKHAEATLGSGNLRQAVMLPEGEDLNEWIAVNTVDFFNQINM
 LYGITTEFCTEASCPVMSAGPRYEYHWADGTNIKKPIKCSAPKYIDYLMTWVQDQLDDETLFSPKIGVPF
 PKNFMSVAKTILKRLFRVYAHYHQHFDSVMQLQEEAHLNTSFKHFIFFVQEFNLIDRRELAPLQELIEK
 LGSKDR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3524_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018221

ORF Size: 648 bp

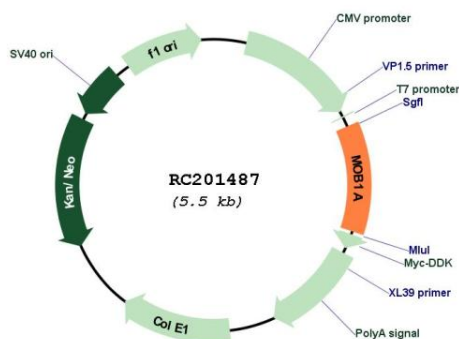
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

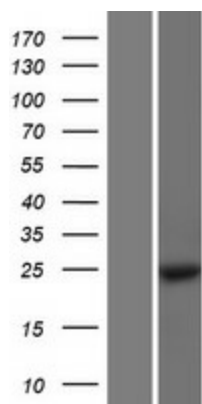
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_018221.5
RefSeq Size:	2543 bp
RefSeq ORF:	651 bp
Locus ID:	55233
UniProt ID:	Q9H8S9
Cytogenetics:	2p13.1
Domains:	Mob1_phocein
Protein Families:	Druggable Genome
MW:	24.9 kDa
Gene Summary:	The protein encoded by this gene is a component of the Hippo signaling pathway, which controls organ size and tumor growth by enhancing apoptosis. Loss of the encoded protein results in cell proliferation and cancer formation. The encoded protein is also involved in the control of microtubule stability during cytokinesis. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]

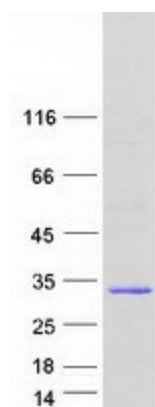
Product images:



Circular map for RC201487



Western blot validation of overexpression lysate (Cat# [LY413201]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201487 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MOB1A protein (Cat# [TP301487]). The protein was produced from HEK293T cells transfected with MOB1A cDNA clone (Cat# RC201487) using MegaTran 2.0 (Cat# [TT210002]).