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Product datasheet for RC224513

MOBKL2C (MOB3C) (NM_201403) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOBKL2C (MOB3C) (NM_201403) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MOBKL2C
Synonyms:	MOB1E; MOBKL2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224513 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCTGTGCCTGAAGCAGGTGTTCGCCAAGGACAAGACGTTCCGGCCGCGGAAGCGCTTTGAGCCGG
GCACACAGCGCTTTGAGCTGTACAAGAAGGCACAGGCCTCTCTCAAGTCGGGCCTGGACCTGCGCAGTGT
GGTGAGGCTACCACCCGGGGAGAACATCGACGACTGGATCGCCGTGCACGTGGTGGACTTCTTCAACCGC
ATCAACCTCATCTACGGCACTATGGCGGAGCGCTGCAGTGAGACCAGCTGCCCGGTCATGGCCGGCGGGC
CCCGCTACGAGTACCGCTGGCAGGACGAGCGCCAGTACCGGCGGCCCGCCAAGCTCTCTGCGCCGCGCTA
TATGGCATTGCTCATGGACTGGATCGAAGGCCTCATCAACGACGAAGAGGTCTTTCCCACGCGTGTTGGA
GTTCCCTTCCCTAAGAACTTCCAGCAGGTCTGCACCAAGATCCTGACCCGCCTCTTCCGAGTCTTTGTCC
ATGTCTACATCCACCACTTCGATAGCATCCTCAGCATGGGGGCAGAGGCGCACGTCAACACCTGCTACAA
GCACTTCTACTACTTCATCCGCGAGTTCAGTCTGGTGGACCAGCGGGAGCTGGAGCCACTGAGGGAGATG
ACAGAGCGGATCTGCCAC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224513 protein sequence
Red=Cloning site Green=Tags(s)

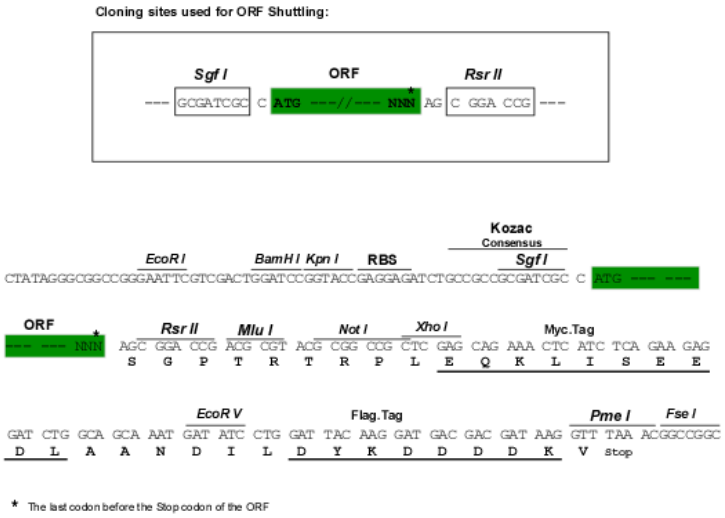
MALCLKQVFAKDKTFRPRKRFEPGTQRFELYKKAQASLKSGLDLRSVVRLPPGENIDDWIAVHVVDFFNR
INLIYGTMAERCSETSCPVMAGGPRYEYRWQDERQYRRPAKLSAPRYMALLMDWIEGLINDEEVFPTRVG
VPFPKNFQQVCTKILTRLFRVFVHVYIHHFDSILSMGAEAHVNTCYKHFYYFIREFSLVDQRELEPLREM
TERICH

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6616_g04.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_201403

ORF Size: 648 bp

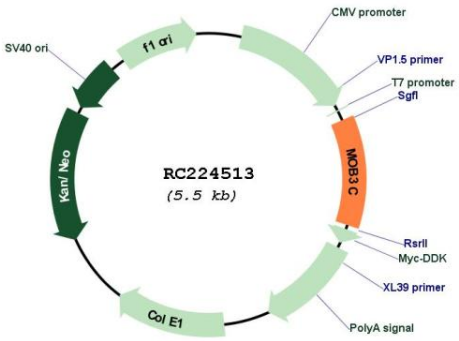
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

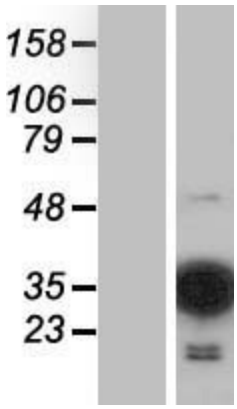
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_201403.2
RefSeq Size:	2822 bp
RefSeq ORF:	651 bp
Locus ID:	148932
UniProt ID:	Q70IA8
Cytogenetics:	1p33
MW:	25.6 kDa
Gene Summary:	The protein encoded by this gene is similar to the yeast Mob1 protein. Yeast Mob1 binds Mps1p, a protein kinase essential for spindle pole body duplication and mitotic checkpoint regulation. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

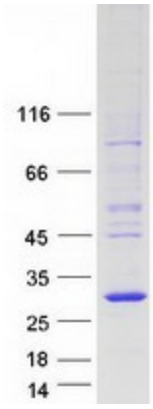
Product images:



Circular map for RC224513



Western blot validation of overexpression lysate (Cat# [LY404530]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224513 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MOB3C protein (Cat# [TP324513]). The protein was produced from HEK293T cells transfected with MOB3C cDNA clone (Cat# RC224513) using MegaTran 2.0 (Cat# [TT210002]).