

Product datasheet for RN205096

Mob1a (NM_001033891) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mob1a (NM_001033891) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mob1a
Synonyms:	Mobk1b; Mobkl1b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN205096 representing NM_001033891 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTTCCTCTTTAGCAGCCGCTCTTCGAAAACATTCAAACCAAGAAGAATATTCCTGAAGGGTCCC
ATCAGTATGAACTCTTAAACATGCAGAGGCAACTCTCGGGAGTGCAATCTGAGGCAAGCTGTTATGTT
GCCGGAGGGAGAAGACCTCAATGAGTGGATCGCTGTTAATACTGTGGATTCTTCAATCAGATCAACATG
CTGTATGGAACATTACAGAGTTCTGCACTGAGGCAAGCTGCCAGTCATGTCAGCAGGTCCCAGGTATG
AATACCACTGGGAGATGGCACTAATATTAAGCAATTAAGTGTTCAGCACCAAAATATATTGACTA
TTTGATGACTTGGGTTCCAGGATCAGCTTGATGATGAACTCTTTTTCCTTCTAAGATTGGTGTCCCATTT
CCCAAAAACCTTTATGTCTGTGGCAAAGACTATTCTGAAGCGTCTCTTCAGGGTTTATGCCATATTTACC
ACCAGCACTTTGACTCCGTGATGCAGCTGCAAGAGGAGGCCACCTCAACACCTCCTTTAAGCACTTTAT
TTTCTTTGTTCCAGGAGTTAATCTGATTGATAGGCGTGAGTTGGCACCCTTCAGGAACCTAATTGAGAAG
CTTGATCTAAAGACAGATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001033891
Insert Size:	651 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
RefSeq:	<u>NM_001033891.1</u> , <u>NP_001029063.1</u>
RefSeq Size:	4480 bp
RefSeq ORF:	651 bp
Locus ID:	297387
UniProt ID:	<u>Q3T1J9</u>
Cytogenetics:	4q34
Gene Summary:	Activator of LATS1/2 in the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and STK4/MST1, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Phosphorylation of YAP1 by LATS1/2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. Stimulates the kinase activity of STK38 and STK38L. Acts cooperatively with STK3/MST2 to activate STK38 (By similarity).[UniProtKB/Swiss-Prot Function]