

Product datasheet for **MC210729**

Mob1b (NM_026735) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mob1b (NM_026735) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mob1b
Synonyms: 1110003E08Rik; AU015450; B230364F10; Mobkl1a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC210729 representing NM_026735
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGTCTCTGTTTGGTAGTCGCTCTTCTAAACTTTTTAAACCAAGAAGAACATACCAGAGGGGTCTC
ACCAAGTATGAACTCTTAAAGCATGCGGAAGCCACACTGGGCAGCGCAACCTACGGATGGCTGTCATGCT
TCCCGAGGGAGAGGATCTGAATGAGTGGTTGCAGTTAACTGTGGATTTTTTCAATCAATCAATATG
CTTTATGGAACCATCACAGACTTCTGTACAGAGGAGAGCTGTCCGGTGATGTCAGCTGGACCAAAATATG
AATATCACTGGGCAGATGGAACAAACATAAAAAAGCCTATTAAGTGTCTGCACCAAAAGTATATTGATTA
CTTGATGACTTGGGTTCCAGGACCAGCTGGATGATGAGACATTATTTCCATCAAAAATTGGTGTCCATTC
CCGAAGAATTTTCATGTCAGTGGCAAAAACAATACTCAAACGACTCTTTAGAGTTTATGCTCATATTTATC
ACCAACATTTTGACCCTGTGATCCAGCTTCAGGAGGAAGCACATCTCAATACATCTTTCAAGCACTTTAT
TTTTTCGTTCCAGGAGTTCAACCTTATTGACAGACGAGAGTTGGCACCCTGCAAGAGCTGATTGAAAAA
CTCACCTCAAAGGACAGAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_026735
Insert Size: 651 bp



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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](#)

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_026735.2](#), [NP_081011.1](#)

RefSeq Size: 3171 bp

RefSeq ORF: 651 bp

Locus ID: 68473

UniProt ID: [Q8BPB0](#)

Cytogenetics: 5 E1

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 STK38L (By similarity).[UniProtKB/Swiss-Prot Function]