

Product datasheet for **MC201425**

Mob1a (NM_145571) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mob1a (NM_145571) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mob1a
Synonyms:	4022402H07Rik; MOB1; MOB4B; Mobk1b; Mobkl1b
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC033463 sequence for NM_145571
 GGAGGAGCCCGCGGTCCGGTGCCTTGGTCGCGCGGCTGGAACCTCGGTACCAAACCCGGGCCGTGAAGCTTC
 GGCAGCCCTGTAGAGCCGCGGACCGTCTCTGCCTCCCGGTGCCCGCGGCGCCGAGTCTGACGGGGC
 GGGGGCCACGGCCCTCGGGCTAGCGAGGATGAGCTTCTCTTCAGCAGCCGCTCTTCGAAAACATTCAA
 ACCAAAGAAGAATATCCCTGAAGGGTCCCATCAGTATGAGCTCTGAAGCATGCAGAGGCGACTCTCGGA
 AGTGGCAATCTGAGGCAAGCTGTTATGTTGCCTGAGGGAGAGGACCTCAATGAATGGATTGCTGTTAATA
 CTGTGGATTTCTCAATCAGATCAACATGTTGTATGGAACCATTACAGAATTCTGCACTGAGGCAAGCTG
 CCCAGTCATGTCGCGCAGTCCCAGGTATGAATACCACTGGGCAGATGGCACTAATATTAAGCAATT
 AAGTGTCTGCACAAAAATATATTGACTATTTGACTTGGTTTTCAGGATCAGCTTGTGACGAAACTC
 TTTTCTCTTAAGATTGGTGTCCCTTTTCCAAAAACTTTATGTCTGTGGCAAAGACTATTCTGAAGCG
 TCTCTTACAGGTTTATGCCCATATCTACCACCAGCACTTTGACTCCGTGATGCAGCTGCAGGAGGAGGCT
 CACCTCAACACCTCCTTAAAGCACTTTATTTCTTTGTTTTCAGGAGTTAATCTGATTGATAGGCGTGAGT
 TGGCACCACTTCAGGAATTAATTGAGAAGCTTGGATCTAAAGACAGATAAATGTTTCTTCTAGAACACAG
 TTATGCTCTCCTTCTATCTACTGCTAGCACTCTCTCATTGCTGTCTGGTATGGACTAAATGATACTGACT
 ACAAGAAACCAGGATCAAAGATCCATTGTGTTTGCAGAGAAAATGTCCAAAGGATAAAAGACTCCTC
 TACTCGGGAAGTGCCTGCTTTTCATGTGGTCTCAGATCTAGTCAGCTCTGGCTGCCTCCTCAGATGTAC
 ATGACATCCCAGGATTCTGGCACTTGGCCGGCAGGCAGAGCTGGAGTTATCAGATTGTGTATCAGAG
 CTGGGACTTACACAGTGCCTATTGGCCTCTATATGGCTTTATAAAAGTTAGAGTTGATGAGGTTTTTGT
 TATTTATTTTGTATCCACTAGACTATACTGGAAAGTATTGCTTAGAAACTCCAGTTTTAATAACTCATT
 TCAGTATGTTCTTAAGTATACTCAGAATTTCAAAGGAAGTGTGTTGATTTACTTTGCTGAAACCACAT
 ATCACTGTTAGAGGAATCAAATGGAATACTGATTTAGAAAAAAGGACAGTTTGGAAACAGCTCACA
 ACCCAGGAGTATGCAGAGGTCCAGATATCAGCTGTTGTGCAAGTGTATGACCGTCATCTGCAGACAGGCT
 TCTAGATGACACCAAGGATGCATCACCCCTCAGCCCCAGACTCCATTTACTTTGATTTGCTTTAGTCTCT
 GAGGAATGAAATTTCTTCAACCAGGGCCAGTCATTTTTATGAATTCTGACACCCTCAAATCAAAGGT
 CCCTCTTTTCTCTGCATGTGATTAGGGATAGAAATGCCCTCTCCATGACTGAGCTCCAATGGAGAAGT
 GCTAAGATACGGAGGAGGACAGCTCACTAATGGAATATAAAGCAAAGTCTTGTGGTGGAAAAAGATGTCT
 CCACTTTTGTGGTGTCCCTCCTCTATTTTCTTCTGTCTTTTAAATGAGAACAGTGTAGACTCCC
 AAGCCAACTGCCTTAATCAGTGTGCACACATTGCACTGTTGCTCACCTCTGAGGCAAAAACCCGAGAGG
 AGGCTGTCTTTCTGTCTTTGGCTAGAGGGTCGATTTGTAACATCTGAAGAAATCAGTCTGTCTGGGTTT
 ATCTGCCTACTCTCCTGCTCCCCGAGCTGGAGTCAGCTGTCTGTCTGATTCTGCTCCCTGAAGTGTAT
 TGCAGTGGCTTCCAATTGCCTGGAGAATTCTGCTTTAGCCCTGTGGTGTGAACCTCCAGGACTTTGAA
 AAATTTGGATATTGGGGCTGGAGAGATGGCACATTGTTTAAAGAATTGGCTGTTCTTCCGAAGGAATTA
 GGTTCAAATCCTAGCACCTGTATGGTGGCTCATAAGTGTGTGAACCTCAATTCAGTGGATACAACCTCCC
 TCATACAAACATGCATGCAGGACAAACCAATGCACATTAAGTTAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_145571
Insert Size: 651 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](#)

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: [BC033463](#), [AAH33463](#)

RefSeq Size: 2300 bp

RefSeq ORF: 651 bp

Locus ID: 232157

UniProt ID: [Q921Y0](#)

Cytogenetics: 6 C3

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]