

## Product datasheet for MC201564

### Lptm4b (NM\_033521) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lptm4b (NM_033521) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lptm4b
Synonyms:	C330023P13Rik; LAPTM4beta
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC019120 sequence for NM\_033521  
 CCACGCGTCCGGTCCCGTCGCAGCGGCCACTCGGAGCTCTCGGTACAGTGCAGAGCCAAGGGTCGGGCGA  
 CGGTCCGAGGGTCGGGGCGGCCAAGGAGAGGGGCGAGGAGCAGCGGACCCAAGACGAAGCGAGCGACGCT  
 CTCACAAACTTCCACGAGCGCCGAGCTATGAAGATGGTCGCTCCCTGGACTCGGTTCTACTCCACAGC  
 TGCTGTTTGTGCTGCCATGTCCGCACCGCACCATCCTGCTGGGCGTCTGGTACCTGATCATCAATGCTG  
 TGGTCCTGCTGATCCTGCTGAGTGCCCTGGCAGATCCCAATCAGTATCACTTTTCAGGCTCTGAACTAGG  
 AGGGGAGTTTGTGTTTTCATGGATGATGCCAATGTGCATTGCTATCGCAATCTCTCTCCTCATGATCCTG  
 ATATGTGCCATGGCTACTTACGGTGCATACAAGCAACATGCTGCCTGGATCATCCCGTTCTTCTGTTACC  
 AGATCTTTGATTTTGGCCTGAATACTTTGGTTGCAATCACTGTGCTTGTCTATCCGAACTCCATTACGGA  
 ATACATACGACAGCTGCCTCCTAGCTTTCCCTACAGAGATGATATAATGTCGGTGAATCCTACCTGTTT  
 GTCCTTATTATTCTTCTGTTTATCGGCATTCTTTTACACTTAAGGGCTACTTGATTAGCTGCGTTTGG  
 GCTGCTACAGGTACATCAACGGCAGGAACTCCTCCGATGTCCTGGTGTATGTTACCAGCAATGATACCAC  
 AGTGCTGCTGCCTCCGTACGATGATGCTACTGCTGTGCCTAGCACTGCCAAGGAACACCACCACCTTAC  
 GTGTCCGCTGAACCTGGTGCAGGAGAGCTGAGAGCAGCAGTTTGTAGCCCTTAGCTGCATGAATTATCCT  
 GTGGTTTCACTTCCATGATGAACTCTCTGAGCCACATTTTACAATTTAGATGTTAAGCTGAAGCCTCTGT  
 TGACACATGCCCTGTAGCTAAGCACTGACTAGCGAGGCTGTAGGAGTGGAGTGTGGTGTGTTCCAGAGT  
 CTTTCTCAAACTACAGACGTTGGTCCCGGGCTGGCTTATACCTGCCTGGCCCCAGAGCTGGGTGGGCA  
 GTCATACATTTTCTTCCATTCCCTCTGATTGTTTTGAAAGTATAAAATTAATTAATGATGATACTTAA  
 TCTTTCCAGTATACGTAATACAAATAGTATTAATTGCTCTAATTAGATAGTTAGGAGCCCTCCATATGT  
 GATATAAGAATCCCTACTATCCCTGAATTCAATGATACTCTGAATTTGCTGGTCAAGGATTTTCTTTG  
 GGCCAAATAAAGACCCCAAGGTAATAGCAACAGTGAGGGCAACAGCTGCCGGGCTGCCTGTTGTTTTG  
 GGCTATGGTTGATGTGTCTCCCTGTGTGAAAGGGGGCCAGCTTGTCTGCACTGAGAGACTCACACTCC  
 CTTTTCTTGGTTACCTGCACCAACAGAGCCACCATGTATGTTTGGGAAAAGGTGTTTACACTCTTTTCT  
 TGCAAGGTACAACCTGCTTTGAATTTCTAAGTATGCCTAATCATTCAAATTAATGTAAGCAGTCTTCAG  
 AAAGATAAGGAGGTTTGTCCCATGTAGAATACTCTAGACTGTCTGGATTGTGAAAGACGTTTATGTTCA  
 TGTCTCTGAATGTGAGCAGGTCTCCTGCTTGGTCTTGTCAATGTGCTGTACACAAAGGCTTTGCAATT  
 AAAGTTTGTCTGCATCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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<b>Restriction Sites:</b>	RsrII-NotI
<b>ACCN:</b>	NM_033521
<b>Insert Size:</b>	684 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC019120</a></u> , <u><a href="#">AAH19120</a></u>
<b>RefSeq Size:</b>	1794 bp
<b>RefSeq ORF:</b>	684 bp
<b>Locus ID:</b>	114128
<b>UniProt ID:</b>	<u><a href="#">Q91XQ6</a></u>
<b>Cytogenetics:</b>	15 B3.1
<b>Gene Summary:</b>	Required for optimal lysosomal function. Blocks EGF-stimulated EGFR intraluminal sorting and degradation. Conversely by binding with the phosphatidylinositol 4,5-bisphosphate, regulates its PIP5K1C interaction, inhibits HGS ubiquitination and relieves LAPTM4B inhibition of EGFR degradation. Recruits SLC3A2 and SLC7A5 (the Leu transporter) to the lysosome, promoting entry of leucine and other essential amino acid (EAA) into the lysosome, stimulating activation of proton-transporting vacuolar (V)-ATPase protein pump (V-ATPase) and hence mTORC1 activation. Plays a role as negative regulator of TGFB1 production in regulatory T cells. Binds ceramide and facilitates its exit from late endosome in order to control cell death pathways.[UniProtKB/Swiss-Prot Function]