

## Product datasheet for **SC212679**

### LAPTM4B (NM\_018407) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	LAPTM4B (NM_018407) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	LAPTM4B
Synonyms:	LAPTM4beta; LC27
ACCN:	NM_018407
Insert Size:	1569 bp



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**Insert Sequence:** >SC212679 3'UTR clone of NM\_018407  
 The sequence shown below is from the reference sequence of NM\_018407. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAGCCACCGCCACTTAGGTGTCTGCCAAGCCTTCAAGTGGGCGGAGCTGAGGGCAGCAGCTTGACTT
TGACAGACATCTGAGCAATAGTTCTGTTATTTCACTTTTGCCATGAGCCTCTCTGACTTGTTTGTGCT
GAAATGCTACTTTTTAAATTTAGATGTTAGATTGAAACTGTAGTTTTCAACATATGCTTTGCTGGAA
CACTGTGATAGATTAAGTGTAGAATTTCTCTGTACGATTGGGGATATAATGGGCTTCACTAACCTTCC
CTAGGCATTGAAACTTCCCCAAATCTGATGGACCTAGAAGTCTGCTTTTGTACCTGCTGGGCCCAAA
GTTGGGCATTTTTCTCTGTTCCCTCTCTTTGAAAATGTAATAAAACCAAAAATAGACAACCTTTT
TCTTCAGCCATTCAGCATAGAGAACAAAACCTTATGAAACAGGAATGTCAATTGTGTAATCATTGTT
CTAATTAGGTAATAAGAGTCCCTATGTATGTGTTACAAGAATTTCCCCACAACATCCTTTATGACTG
AAGTTCAATGACAGTTTTGTGTTGGTGGTAAAGGATTTTCTCCATGGCCTGAATTAAGACCATTAGAAA
GCACCAGGCCGTGGGAGCAGTGACCATCTGCTGACTGTTCTTGTGGATCTTGTGTCCAGGGACATGGGG
TGACATGCCTCGTATGTGTTAGAGGGTGGAAATGGATGTGTTTGGCGCTGCATGGGATCTGGTGCCCTC
TTCTCCTGGATTACATCCCCACCCAGGGCCCGCTTTTACTAAGTGTCTGCCCTAGATTGGTTCAAGG
AGGTCAATCAACTGACTTTATCAAGTGGAAATGGGATATATTTGATATACTTCTGCCTAACAACTGGA
AAAGGGTTTTCTTTCCCTGCAAGCTACATCCTACTGCTTTGAACTTCCAAGTATGTCTAGTCACCTTT
TAAAATGTAACATTTTCAGAAAAATGAGGATTGCCTTCTTGTATGCGCTTTTTACCTTGACTACCTG
AATTGCAAGGGATTTTTATATTCATATGTTACAAAAGTCAGCAACTCTCCTGTTGGTTCCATTATTGAA
TGTGCTGTAAATTAAGTTGTTTGAATTAACAAGTTTTGCCACATCCAAGATGACCTTGTGATTTT
GTGCTGATTGTGCTGAGGACCTTTCCCTCCACATATGGTCTGGCAGATGCACCCAGTTCAGCCTAAGG
AGTAGGCTTTTTTTGGGGGGGGAGGTGCGGTGGGGGGGATTTTTAATCTTTAATTTTCAAGATGGT
TAAAATATTGAAATGTTAAGTGGATAACTATATTATTCATAAAATGACTGAGTGAAAATAACTACTACT
ATGAGATGAAAAGTACTGTGTCAGGGATTTTCAAGCTTTTGTCAAGTAATTAATAAACAATTTT
CTAGAAATGAAGAACAATCCGTGGAGAATAAATTACCATTGGTGTGGGGAAAAAAGCCAAACAGAAGT
AGAAAAAGGTGTAGCCGGCATACAAATGTTATCTACAGTGTATTTTAGAT
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_018407.6](#)

**Summary:**

Required for optimal lysosomal function (PubMed:21224396). 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 (PubMed:25588945). 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 (PubMed:25998567). Plays a role as negative regulator of TGFB1 production in regulatory T cells (PubMed:26126825). Binds ceramide and facilitates its exit from late endosome in order to control cell death pathways (PubMed:26280656).[UniProtKB/Swiss-Prot Function]

**Locus ID:**

55353

**MW:**

59.7