

Product datasheet for MR202675

Lptm4b (NM_033521) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lptm4b (NM_033521) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lptm4b
Synonyms:	C330023P13Rik; LAPTM4beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202675 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGATGGTCGCTCCCTGGACTCGGTTCTACTCCCACAGCTGCTGTTTGCTGCCATGTCCGCACCG
GCACCATCCTGCTGGCGTCTGGTACCTGATCATCAATGCTGTGGTCTGCTGATCCTGCTGAGTGCCCT
GGCAGATCCCAATCAGTATCACTTTTCAGGCTCTGAAGTAGGAGGGGAGTTGAGTTCATGGATGATGCC
AACATGTGCATTGCTATCGCAATCTCTCCTCATGATCCTGATATGTGCCATGGCTACTTACGGTGCAT
ACAAGCAACATGCTGCCTGGATCATCCCGTCTCTGTTACCAGATCTTTGATTTTGCCTGAATACTTT
GGTTGCAATCACTGTGCTTGTCTATCCGAATCCATTCAGGAATACATACGACAGCTGCCTCCTAGCTTT
CCCTACAGAGATGATATAATGTCCGTGAATCCTACCTGTTTGGTCTTATTATTCTTCTGTTTATCGGCA
TTCTTTTGACACTTAAGGGCTACTTGATTAGCTGCGTTTGGAGCTGCTACAGGTACATCAACGGCAGGAA
CTCCTCCGATGCTCCTGGTGTATGTTACCAGCAATGATACCACAGTGTGCTGCCTCCGTACGATGATGCT
ACTGCTGTGCCTAGCACTGCCAAGGAACCACCACCACCTTACGTGTCCGCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_033521.3](#), [NP_277056.1](#)

RefSeq Size: 1897 bp

RefSeq ORF: 684 bp

Locus ID: 114128

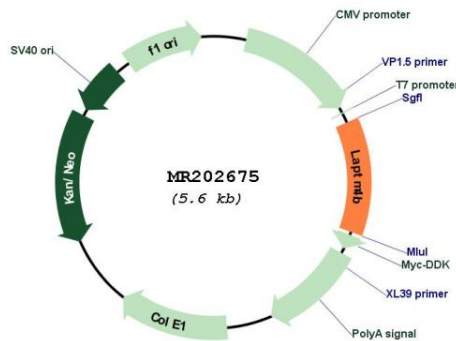
UniProt ID: [Q91XQ6](#)

Cytogenetics: 15 B3.1

MW: 25.4 kDa

Gene Summary: 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]

Product images:



Circular map for MR202675