

## Product datasheet for RC201290

### LAPTM4A (NM\_014713) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LAPTM4A (NM_014713) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LAPTM4A
Synonyms:	HUMORF13; LAPTM4; MBNT; Mtrp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC201290 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTGTCCATGAGTTTCAAGCGGAACCGCAGTGACCGTTCTACAGCACCCGGTCTGCGGCTGTTGCC  
ATGTCCGCACCGGACGATCATCTGGGACCTGGTACATGGTAGTAAACCTATTGATGGCAATTTTGCT  
GACTGTGGAAGTGACTCATCAAACCTCCATGCCAGCTGTCAACATTCAGTATGAAGTCATCGGTAATTAC  
TATTCTTCTGAGAGAATGGCTGATAATGCCTGTGTTCTTTTTGCCGTCTCTGTTCTTATGTTATAATCA  
GTTCAATGCTGGTTTATGGATCAATTTCTTATCAAGTGGGTTGGCTGATTCCATTCTTCTGTTACCGACT  
TTTTGACTTCGTCTCAGTTGCCTGGTTGCTATTAGTTCTCTCACCTATTTGCCAAGAATCAAAGAATAT  
CTGGATCAACTACCTGATTTTCCCTACAAAGATGACCTCCTGGCCTTGGACTCCAGCTGCCTCCTGTTCA  
TTGTTCTGTGTTCTTTGCCTATTTCATCATTTTTAAGGCTTATCTAATTAAGTGTGTTGGAAGTACTGCTA  
TAAATACATCAACAACCGAAACGTGCCGGAGATTGCTGTGTACCCTGCCTTTGAAGCACCTCCTCAGTAC  
GTTTTGCCAACCTATGAAATGGCCGTGAAATGCCTGAAAAGAACCACCACCTCCTTACTTACCTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC201290 protein sequence  
 Red=Cloning site Green=Tags(s)

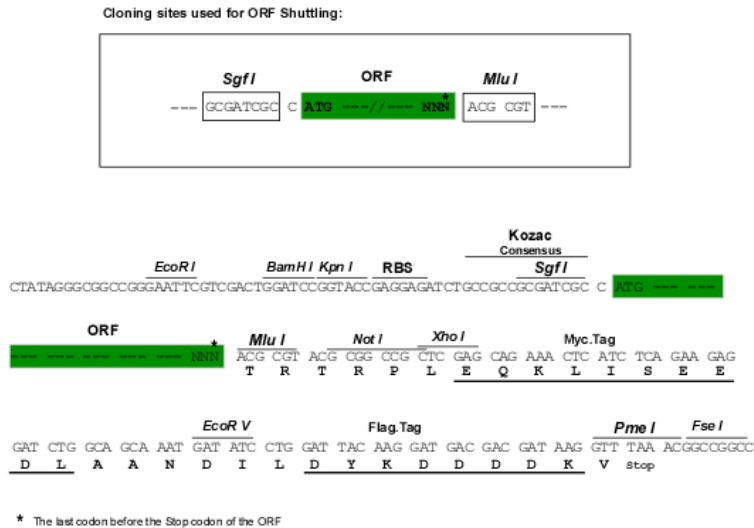
MVSMSEFKRNRSDRFYSTRCCGCHVRTGTIILGTWYMMVLLMAILLTVEVTHPNSMPAVNIQYEVIGNY  
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 LDQLPDFPYKDDLLALDSSCLLFIVLVFFALFIIFKAYLINCWNCYKYINNRNVP EIAVYPAFEAPPQY  
 VLPTYEMAVKMPKEKPPPPYLPA

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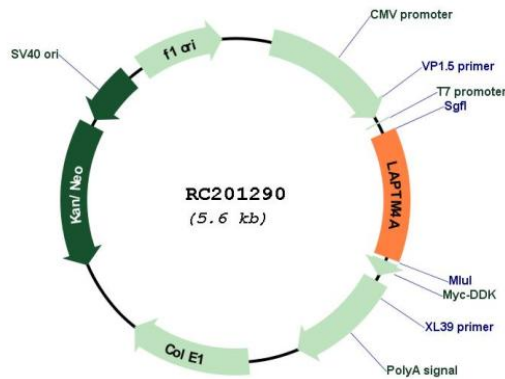
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6395\\_b01.zip](https://cdn.origene.com/chromatograms/mk6395_b01.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**

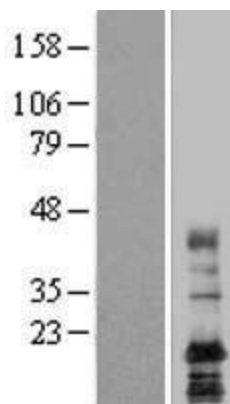


**ACCN:** NM\_014713

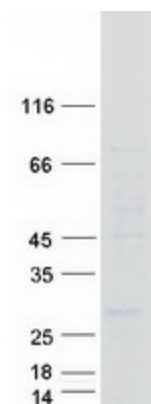
**ORF Size:** 699 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_014713.5</a>
<b>RefSeq Size:</b>	1783 bp
<b>RefSeq ORF:</b>	702 bp
<b>Locus ID:</b>	9741
<b>UniProt ID:</b>	<a href="#">Q15012</a>
<b>Cytogenetics:</b>	2p24.1
<b>Domains:</b>	Mtp
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Lysosome
<b>MW:</b>	26.8 kDa
<b>Gene Summary:</b>	This gene encodes a protein that has four predicted transmembrane domains. The function of this gene has not yet been determined; however, studies in the mouse homolog suggest a role in the transport of small molecules across endosomal and lysosomal membranes. [provided by RefSeq, Jul 2008]

**Product images:**



Western blot validation of overexpression lysate (Cat# [LY415048]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201290 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LAPTM4A protein (Cat# [TP301290]). The protein was produced from HEK293T cells transfected with LAPTM4A cDNA clone (Cat# RC201290) using MegaTran 2.0 (Cat# [TT210002]).