

Product datasheet for **RG200456**

LAMP2 (NM_013995) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAMP2 (NM_013995) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LAMP2
Synonyms:	CD107b; DND; LAMP-2; LAMPB; LGP-96; LGP110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200456 representing NM_013995 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTGCTTCCGCTCTTCCCGGTTCCGGGCTCAGGGCTCGTTCTGGTCTGCCTAGTCTGGGAGCTG
TGCGGTCTTATGCATTGGAACCTAATTTGACAGATTCAGAAAATGCCACTTGCCTTTATGCAAAATGGCA
GATGAATTTACAGTTCGCTATGAACTACAAATAAACTTATAAACTGTAACCATTTAGACCATGGC
ACTGTGACATATAATGGAAGCATTGTGGGGATGATCAGAATGGTCCCAAAATAGCAGTGCAGTTCGGAC
CTGGCTTTTCTGGATTGCGAATTTTACCAAGGCAGCATCTACTTATTCAATTGACAGCGTCTCATTTC
CTACAACACTGGTGATAACACAACATTTCTGATGCTGAAGATAAAGGAATTCCTACTGTTGATGAACCT
TTGGCCATCAGAATTCATTGAATGACCTTTTATAGATGCAATAGTTTATCAACTTTGAAAAAGAATGATG
TTGTCCAACACTACTGGGATGTTCTGTACAAGCTTTTGTCCAAAATGGCACAGTGAGCACAATGAGTT
CCTGTGTGATAAAGACAAAACCTCAACAGTGGCACCACCATACACCACTGTGCCATCTCCTACTACA
ACACCTACTCAAAGGAAAAACCAAGCTGGAACCTATTCAGTTAATAATGGCAATGATACTTGTCTGC
TGGCTACCATGGGGCTGCAGCTGAACATCACTCAGGATAAGGTTGCTTCAGTTATTAACATCAACCCAA
TACAACACTCCACAGGCAGCTGCCGTTCTCACACTGCTCTACTTAGACTCAATAGCAGCACCATTAAG
TATCTAGACTTTTGTCTTTGCTGTGAAAAATGAAAACCGATTTTATCTGAAGGAAGTGAACATCAGCATG
ATTTGGTTAATGGCTCCGTTTTACGATTGCAAATAACAATCTCAGTACTGGGATGCCCCCTGGGAAG
TTCTTATATGTGCAACAAGAGCAGACTGTTTCAGTGTCTGGAGCATTTTCAAGATAAATACCTTTGATCTA
AGGGTTACGCTTTCAATGTGACACAAGGAAAGTATTCTACAGCCCAAGAGTGTTTCGCTGGATGATGACA
CCATTCTAATCCAATTATAGTTGGTGTGGTCTTTTCCAGGCTTGATTATCGTTATAGTGATTGCTTACGT
AATTGGCAGAAGAAAAAGTTATGCTGGATATCAGACTCTG

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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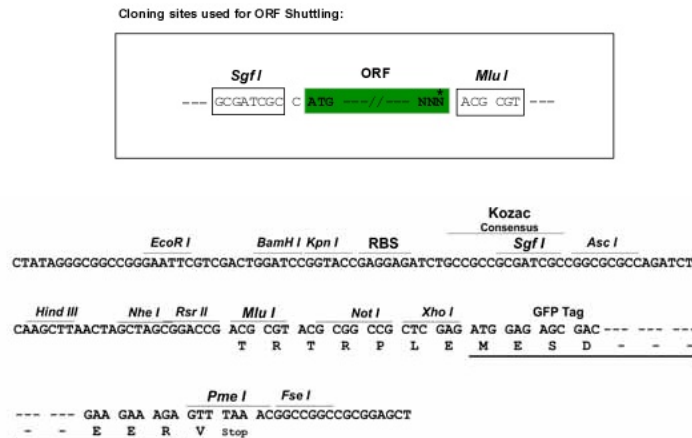
Protein Sequence: >RG200456 representing NM_013995
 Red=Cloning site Green=Tags(s)

MVCFRLFPVPGSGLVLVCLVLGAVRSYALELNLTDSENATCLYAKWQMNFTVRYETTNKYKTVTISDHG
 TVTYNGSICGDDQNGPKIAVQFGPGFSWIANFTKAASTYSIDSVFSYNTGDNTTFPDAEDKGILTVDEL
 LAIRIPLNDLFRCNLSLLEKNDVVQHYWDVLVQAFVQNGTVSTNEFLCDKDKTSTVAPTIHTTVSPPT
 TPTPKPEAGTYSVNNGNDTCLLATMGLQLNITQDKVASVININPNTTHTSTGSCRSHALLRLNSSTIK
 YLDFVFAVKNENRFYLKEVNISMVYLVNGSVFSIANNLSYWDAPLGSYMCNKEQTVSVSGAFQINTFDL
 RVQPFNVTQGKYSTAQECSLDDDTILIPIIIVGAGLSGLIIVIVIAVYIGRRKSYAGYQTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013995

ORF Size: 1230 bp

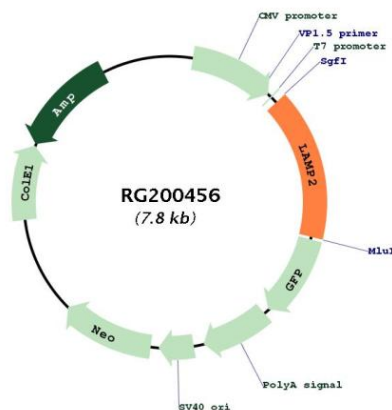
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none"> 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:	<u>NM_013995.1, NP_054701.1</u>
RefSeq Size:	4006 bp
RefSeq ORF:	1233 bp
Locus ID:	3920
UniProt ID:	<u>P13473</u>
Cytogenetics:	Xq24
Domains:	Lamp
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Lysosome
Gene Summary:	The protein encoded by this gene is a member of a family of membrane glycoproteins. This glycoprotein provides selectins with carbohydrate ligands. It may play a role in tumor cell metastasis. It may also function in the protection, maintenance, and adhesion of the lysosome. Alternative splicing of this gene results in multiple transcript variants encoding distinct proteins. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200456