

## Product datasheet for SC127527

### LAMP2 (NM\_013995) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LAMP2 (NM_013995) Human Untagged Clone
Tag:	Tag Free
Symbol:	LAMP2
Synonyms:	CD107b; DND; LAMP-2; LAMPB; LGP-96; LGP110
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127527 sequence for NM_013995 edited (data generated by NextGen Sequencing)

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ATGGTGTGCTTCCGCCTCTTCCCGTTCGGGCTCAGGGCTCGTTCTGGTCTGCCTAGTC
CTGGGAGCTGTGGGTCTTATGCATTGGAACCTAATTTGACAGATTCAGAAAATGCCACT
TGCCCTTATGCAAAATGGCAGATGAATTTACAGTACGCTATGAACTACAAATAAACT
TATAAACTGTAACCATTTAGACCATGGCACTGTGACATATAATGGAAGCATTGTGGG
GATGATCAGAATGGTCCCAAAATAGCAGTGCAGTTCGGACCTGGCTTTTCCTGGATTGCG
AATTTTACCAAGGCAGCATCTACTTATTCAATTGACAGCGTCTCATTTTCCTACAACACT
GGTGATAACACAACATTTCTGATGCTGAAGATAAAGGAATTCTACTGTTGATGAACCTT
TTGGCCATCAGAATTCATTGAATGACCTTTTTAGATGCAATAGTTTATCAACTTTGGAA
AAGAATGATGTTGTCCAACACTACTGGGATGTTCTTGTACAAGCTTTTGTCCAAAATGGC
ACAGTGAGCACAATGAGTTCCTGTGTGATAAAGACAAAACCTTCAACAGTGGCACCACC
ATACACACCCTGTGCCATCTCCTACTACAACACCTACTCCAAAGGAAAAACCAGAAGCT
GGAACCTATTCAGTTAATAATGGCAATGATACTTGTCTGCTGGCTACCATGGGGTGCAG
CTGAACATCACTCAGGATAAGGTTGCTTCACTTAACTCAACCCCAATACAACCTCAC
TCCACAGGCAGCTGCCGTTCTCACACTGCTCTACTTAGACTCAATAGCAGCACCATTAAG
TATCTAGACTTTGTCTTTGCTGTGAAAAATGAAAACCGATTTTATCTGAAGGAAGTGAAC
ATCAGCATGTATTTGGTTAATGGCTCCGTTTTTCAGCATTGCAAATAACAATCTCAGCTAC
TGGGATGCCCCCTGGGAAGTTCTTATATGTGCAACAAAGAGCAGACTGTTTCAGTGTCT
GGAGCATTTAGATAAATACCTTTGATCTAAGGGTTCAGCCTTTTCAATGTGACACAAGGA
AAGTATTCTACAGCCCAAGAGTGTTCGCTGGATGATGACACCATTCTAATCCCAATTATA
GTTGGTGTGGTCTTTCAGGCTTATTATCGTTATAGTGATTGCTTACGTAATTGGCAGA
AGAAAAAGTTATGCTGGATATCAGACTCTGTAA

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Clone variation with respect to NM\_013995.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_013995 unedited  
 NNNTATTTTAAACCCCGCCGTTGACGCAAAGGGCGGTAGGCGGTACGGTGGGCAGGTC  
 TATATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCA  
 GCGGCCGCGAATTCGGCACGAGGGTCGGTGGTCATCAGTGCTCTTGACCCAGGTCACGCG  
 AGCCTTTTCCCTGGTGTGACAGTGTGTTGTACCGCCGCGTCGCCCGCTCGCCGCT  
 GCTCTGCGGGGTCATGGTGTGCTTCCGCCTCTTCCCGGTTCCGGGCTCAGGGCTCGTTCT  
 GGTCTGCCTAGTCTGGGAGCTGTGCGGTCTTATGCATTGGAACCTAATTTGACAGATTC  
 AGAAAATGCCACTTGCCCTTATGCAAAAATGGCAGATGAATTTACAGTACGCTATGAAAC  
 TACAAAATAAAACTTATAAACTGTAAACATTTAGACCATGGCACTGTGACATATAATGG  
 AAGCATTTGTGGGGATGATCAGAATGGTCCAAAATAGCAGTGCAGTTCCGGACCTGGCTT  
 TTCCTGGATTGCGAATTTACCAAGGCAGCATCTACTTATTCAATTGACAGCGTCTCATT  
 TTCCTACAACACTGGTGATAACACAACATTTCTGATGCTGAAGATAAAGGAATCTTAC  
 TGTTGATGAACCTTTGGCCATCAGAATCCATTGAATGACCTTTTAGATGCAATAGTTT  
 ATCAACTTTGAAAAGAATGATGTTGTCCAACACTACTGGGATGTTCTTGTACACGCTTT  
 TGTCAAAATGGCACAGTGAACAAAATGAGTTCTGTGTGATAAAGACAAAACCTCACA  
 GTGGCACCCACCATACACACCACTGTGCCATNTNCTACTACGACACCTACTNCTAGGNA  
 AG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_013995 unedited  
 AAAAAAGCTAAGGGTTAACTTTCTGCCTCTAGAGCAATTTGGGCAAACAGGACAGCAA  
 ATATCTAAAGATACCATACATCAACTAGTGGTTAAACATTTGAAGAAAAACATGGAAA  
 GTATTTACATGGACCAGTTTCTTTATACAAATGCTAAAACATGAAAAACCCAAAACCA  
 GATAGAGCGTTACCATCAAGGTATGAATCTAGTAATACAATAAACTACAAAAGGTACA  
 AAGAACATGTAGCTATAGGAAATAAATAGTGTAAATAGCAGTATATAAACTGGCCATGTA  
 AAATACAAAAATATTCACTGAAGTCAGGTTTTCTATAAAACAGTGTATTAGAGGTATT  
 TTAATGAAATCAGGCCTATAATCTGAATGTAGAACTTTTAGAAATATTAACAGCATTC  
 AGTCAGTGCCATGCACCTGTGCTTCCAATATTTTTTTAAAGCTGCTTTGTTTTGACTCA  
 TGTGAAATAGTTAATGCCTACATTTTATACACATTATCCATCTTACAAGGTTAACAATT  
 TTACACTAAAACAGTTTAAATTAACAAACGATTTTAAAAATTACATCTATATTTAATC  
 CCTAAGAAGTGTTTAAGCTGGCAATGGCAGCTTGCTGTTGCTCCTTGAGAGGGTTACG  
 CAAGAATCTGATCTTGACCCCTAAAGGTTTTAGGCTGGTATAGGACCAATCTTACTGA  
 CCGGAAATATTCATAATTTCCAATATAACTCAGTTTTATTTGGTATTAATAATTACCCTTG  
 CCATCCTTGCCACTGCGCCTTTATGTGGGCATATACATATCAATATAGTCCGCGCGTGG  
 GGATCGGACCATTCAATTGCAATTTGTTGGGAACCCAAACAATTTCCCACTTTTTTATG  
 GA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_013995

**Insert Size:**

4450 bp

**OTI Disclaimer:**

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).

**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:**

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\\_013995.1](#), [NP\\_054701.1](#)

**RefSeq Size:** 4006 bp

**RefSeq ORF:** 1233 bp

**Locus ID:** 3920

**UniProt ID:** [P13473](#)

**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]

Transcript Variant: This variant (B) results from alternative splicing of exon 9 and results in a shorter transcript, but not protein, as compared to variant A. Transcript variant B is over-expressed in muscle and encodes isoform B. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.