

Product datasheet for **SC118738**

LAMP2 (NM_002294) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAMP2 (NM_002294) Human Untagged Clone
Tag:	Tag Free
Symbol:	LAMP2
Synonyms:	CD107b; DND; LAMP-2; LAMPB; LGP-96; LGP110
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002294 edited
 GAATTCGGCAGGAGGGTTCATCAGTGTCTTGACCCAGGTCCAGCGAGCCTTTCCCTGG
 TGTTGCAGCTGTTGTTGTACCGCCCGCTCGCCCGCTGCTCTGCGGGGTCA
 TGGTGTGCTTCCGCCTCTCCCGGTTCCGGGCTCAGGGCTCGTTCTGGTCTGCCTAGTCC
 TGGGAGCTGTGCGGTCTTATGCATTGGAACCTAATTTGACAGATTGAAAAATGCCACTT
 GCCTTTATGAAAAATGGCAGATGAATTTACAGTACGCTATGAACTACAAAATAAACTT
 ATAAAACTGTAAACATTTAGACCATGGCACTGTGACATATAATGGAAGCATTGTGGGG
 ATGATCAGAATGGTCCCAAAATAGCAGTGCAGTTCGGACCTGGCTTTTCTGGATTGCGA
 ATTTTACCAAGGCAGCATCTACTTATTCATTGACAGCGTCTCATTTTCTACAACACTG
 GTGATAACACAACATTTCTGATGCTGAAGATAAAGGAATTTACTGTTGATGAACTTT
 TGGCCATCAGAATTCATTGAATGACCTTTTTAGATGCAATAGTTTATCAACTTTGGAAA
 AGAATGATGTTGTCCAACACTACTGGGATGTTCTTGTACAAGCTTTTGTCCAAAATGGCA
 CAGTGAGCACAATGAGTTCCTGTGTGATAAAGACAAAACCTCAACAGTGGCACCACCA
 TACACACCACTGTCCATCTCCTACTACAACACCTACTCAAAGGAAAAACCAGAAGCTG
 GAACCTATTCAGTTAATAATGGCAATGATACTTGTCTGCTGGCTACCATGGGGCTGCAGC
 TGAACATCACTCAGGATAAGGTTGCTTCAGTTATTAACATCAACCCCAATACAACCTACT
 CCACAGGCAGCTGCCGTTCTCACACTGCTCTACTTAGACTCAATAGCAGCACCATTAAGT
 ATCTAGACTTTGTCTTTGCTGTGAAAAATGAAAACCGATTTTATCTGAAGGAAGTGAACA
 TCAGCATGATTTGGTTAATGGTCCGTTTTTACGATTGCAAAATAACAATCTCAGCTACT
 GGGATGCCCCCTGGGAAGTTCTTATATGTGCAACAAAGAGCAGACTGTTTCAGTGTCTG
 GAGCATTTAGATAAATACCTTTGATCTAAGGGTTCAGCCTTTCAATGTGACACAAGGAA
 AGTATTCTACAGCTCAAGACTGCAGTGCAGATGACGACAACTTCTTGTGCCATAGCGG
 TGGGAGCTGCCTTGGCAGGAGTACTTATTCTAGTGTGCTGGCTATTTTATTGGTCTCA
 AGCACCATCATGCTGGATATGAGCAATTTTAGAATCTGCAACCTGATTGATTATATAAAA
 ATACATGCAAAATAACAAGATTTTCTTACCTCTCAGTTGTTGAAACACTTTGCTTCTTAAA
 ATTGATATGTTGAACTTTAATTCTTTTATCAATCCCAGCATTGTTGAGATCAGTCTTTAT
 TAATAAACCTGTTCTCTTTAATCAGCTTAAAATCCAAAGTGTCATTTACTGGTCTG
 GAGACAACTTGTTCAAAAGAACATCAACGTGCAATGTTTTAAGGTCTATCTTAAGAAGC
 CCTGGCCAAATTTGATCCTAACCTTGAAGTATGCCTTGAACCTATTAACATGGCCATTA
 TAAGAATAAAATATGTAGTTGTGCTTAAATGGAATTAATAAATGCATTTCACTAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_002294 unedited
 GGGTCAGTATATTTGTATACGACTCACTATTAGGGCGGCCGGAATTCGCACGAGGGGTC
 ATCAGTGTCTTGACCCAGGTCCAGCGAGCCTTTCCCTGGTGTGCAGCTGTTGTTGTA
 CCGCCCGCTCGCCCGCTCGCCCGCTGCTCTGCGGGTTCATGGTGTGCTTCCGCCTCTT
 CCCGGTCCGGGCTCAGGGCTCGTTCTGGTCTGCCTAGTCTGGGAGCTGTGCGGTCTTA
 TGCATTGGAACCTAATTTGACAGATTGAAAAATGCCACTTGCCTTTATGCAAAATGGCA
 GATGAATTTACAGTACGCTATGAACTACAAAATAAACTTATAAACTGTAACCATTTT
 AGACCATGGCACTGTGACATATAATGGAAGCATTGTGGGGATGATCAGAATGGTCCCAA
 AATAGCAGTGCAGTTCGGACCTGGCTTTTCTGGATTGCGAATTTTACCAAGGCAGCATC
 TACTTATTCAATTGACAGCGTCTCATTTTCTACAACACTGGTGATAACACAACATTTCC
 TGATGCTGAAGATAAAGGAATTTACTGTTGATGAACTTTGGCCATCAGAATTCATT
 GAATGACCTTTTTAGATGCAATAGTTTATCAACTTTGAAAAGAATGATGTTGTCCAACA
 CTACTGGGATGTTCTTGTACAAGCTTTTGTCCAAAATGGCACAGTGACCCAAATGAGTT
 TCTGTGTGATAAAGACCAAACTTCAACAGTGGCACCCACCATACACACCACTGTTGCCA
 TCTCCTACTACAACACTACTCAAAGAAAAACCAGAAGCTGGCACCTATTCAGTTAATA
 ATGGCAATGATCCTTGTCTGCTGGCTACCATGGCGCTGCAGTGAACATCACTCAGGATA
 AGTTGCTCCAATTATTACCT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002294 unedited AAAAAGCTGAGGTTTNTTTACNTNCTTTAAGGACCAACTACATATCTTTATTCTTATAAT GGCCATGTTAATAAGTTCAAGGCATACTTCAAGGTTAGGATCAAAATTTGGCCAGGGCTT CTTAAGATAGACCTTAAACATTGCACGTTGATGTTCTTTTGAACAAGTTTGTCTCCAGG ACCAGTAAATATGACACTTTGGATTTTAAAGCTGATTAAGATAACAGGTTTTATTAATAA AGACTGATCTCAAATGCTGGGATTGATAAAAAGAATTAAGTTTCAACATATCAATTTTA AGAAGCAAAGTGTTCACAACACTGAGAGGTAAGAAAATCTTGTTATTTGCATGTATTTT ATATAATCAATCAGGTTGCAGATTCTAAAATTGCTCATATCCAGCATGATGGTGCTTGAG ACCAATAAAATAAGCCAGCAACACTAGAATAAGTACTCCTGCCAAGGCAGCTCCCACCGC TATGGGCACAAGGAAGTTGTCGCATCTGCACTGCAGTCTTGAGCTGTAGAATACTTTCC TTGTGTACATTGAAAGGCTGAACCCCTTAGATCAAAGGATTTTATCTGAAATGCTCCAGA CACTGAAACAGTCTGCTCTTTGTTGCACATATAAGAACTCCCAGGGGGCATCCCAGTA GCTGAGATTGTTATTTGCAATGGCTGAAACGGAGCCATTAACCAAATACATGCTGATGTT CACTTCCTTCAGATAAAATCGGTTTTTCATTTTTACAGCAAAGACCAAGTCTAGATACTT AATGGTGCTGCTATTGAGTCTAAGTAGAGCAGTGTGAGAACCAGCTGCCTGTGGAGTG AGTTGTATTGGGGCTGATGTTAATACTGAAGCAACCTATTCTGAGTGA
Restriction Sites:	NotI-NotI
ACCN:	NM_002294
Insert Size:	1770 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:	<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_002294.1</u> , <u>NP_002285.1</u>
RefSeq Size:	1868 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]

Transcript Variant: This variant (A) is the longest and predominant form of this gene. Variant A encodes isoform A. 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.