

Product datasheet for **RG221216**

LAMP2 (NM_002294) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAMP2 (NM_002294) 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:	>RG221216 representing NM_002294 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTGCTTCCGCTCTTCCCGGTTCCGGGCTCAGGGCTCGTTCTGGTCTGCCTAGTCTGGGAGCTG
TGCGGTCTTATGCATTGGAACCTAATTTGACAGATTGAGAAAATGCCACTTGCCTTTATGCAAAATGGCA
GATGAATTTACAGTACGCTATGAACTACAAATAAACTTATAAACTGTAACCATTTAGACCATGCGC
ACTGTGACATATAATGGAAGCATTGTGGGGATGATCAGAATGGTCCCAAAATAGCAGTGCAGTTCCGGAC
CTGGCTTTTCTGGATTGCGAATTTTACCAAGGCAGCATCTACTTATTCAATTGACAGCGTCTCATTTC
CTACAACACTGGTGATAACACAACATTTCTGATGCTGAAGATAAAGGAATTCCTACTGTTGATGAACCT
TTGGCCATCAGAATTCATTGAATGACCTTTTTAGATGCAATAGTTTATCAACTTTGAAAAAGAATGATG
TTGTCCAACACTACTGGGATGTTCTGTACAAGCTTTTGTCCAAAATGGCACAGTGAGCACAAAATGAGTT
CCTGTGTGATAAAGACAAAACCTCAACAGTGGCACCCACCACACACACTGTGCCATCTCCTACTACA
ACACCTACTCCAAAGGAAAAACCAAGCTGGAACCTATTCAGTTAATAATGGCAATGATACTTGTCTGC
TGGCTACCATGGGGCTGCAGCTGAACATCACTCAGGATAAGGTTGCTTCAGTTATTAACATCAACCCCAA
TACAACACTCCACAGGCAGCTGCCGTTCTCACACTGCTCTACTTAGACTCAATAGCAGCACCATTAAG
TATCTAGACTTTGTCTTTGCTGTGAAAAATGAAAACCGATTTTATCTGAAGGAAGTGAACATCAGCATGT
ATTTGGTTAATGGCTCCGTTTTACGATTGCAATAACAATCTCAGTACTGGGATGCCCCCTGGGAAG
TTCTTATATGTGCAACAAGAGCAGACTGTTTTCAGTGTCTGGAGCATTTAGATAAATACCTTTGATCTA
AGGGTTACGCTTTCAATGTGACACAAGGAAAGTATTCTACAGCTCAAGACTGCAGTGCAGATGACGACA
ACTTCCTTGTGCCATAGCGGTGGGAGCTGCCTTGGCAGGAGTACTTATTCTAGTGTGCTGGCTTATTT
TATTGGTCTCAAGCACCATCATGCTGGATATGAGCAATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221216 representing NM_002294
 Red=Cloning site Green=Tags(s)

MVCFRLFPVPGSGLVLVCLVLGAVRSYALELNLTDSENATCLYAKWQMNFTVRYETTNNKYKTVTISDHG
 TVTYNGSICGDDQNGPKIAVQFGPGFSWIANFTKAASTYSIDSVFSYNTGDNTTFPDAEDKGILTVDEL
 LAIRIPLNDLFRCNLSLLEKNDVVQHYWDVLVQAFVQNGTVSTNEFLCDKDKTSTVAPT IHTTVPSPTT
 TPTPKEKPEAGTYSVNNGNDTCLLATMGLQLNITQDKVASVININPNTTHTSGSCRSHALLRLNSSTIK
 YLDFVFAVKNENRFYLKEVNISMVYLVNGSVFSIANNLSYWDAPLGSYMCNKEQT VSVSGAFQINTFDL
 RVQPFNVTQGKYSTAQDCSADDDNFLVPIAVGAALAGVLLVLLAYF IGLKHHHAGYEQF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002294

ORF Size: 1230 bp

OTI Disclaimer: 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:

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_002294.3](#)

RefSeq Size: 1868 bp

RefSeq ORF: 1233 bp

Locus ID: 3920

UniProt ID: [P13473](#)

Cytogenetics: Xq24

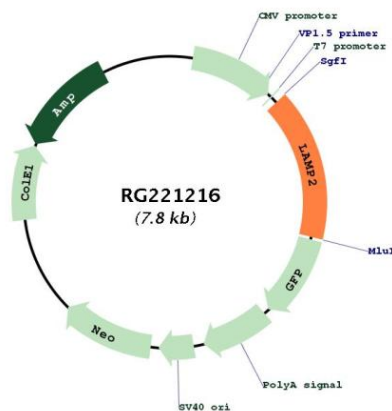
Domains: Lamp

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]

Product images:



Circular map for RG221216