

Product datasheet for **RG219208**

LAMP1 (NM_005561) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAMP1 (NM_005561) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LAMP1
Synonyms:	CD107a; LAMPA; LGP120
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219208 representing NM_005561 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCGGCAGCGCCCGGCGACCCCTGCTGCTGCTACTGCTGTTGCTGCTGCTCGGCCTCATGC
ATTGTGCGTCAGCAGCAATGTTTATGGTGAAAAATGGCAACGGGACCGCGTGCATAATGGCCAATTCTC
TGCTGCCTTCTCAGTGAACACGACACCAAGAGTGGCCCTAAGAACATGACCTTTGACCTGCCATCAGAT
GCCACAGTGGTGTCAACCGCAGCTCCTGTGAAAAGAGAACACTTCTGACCCAGTCTCGTGATTGCTT
TTGGAAGAGGACATACACTCACTCTCAATTTACGAGAAATGCAACACGTTACAGCGTCCAGCTCATGAG
TTTTGTTTATAACTTGTGACACACACCTTTCCCAATGCGAGCTCCAAGAAATCAAGACTGTGGAA
TCTATAACTGACATCAGGGCAGATATAGATAAAAAATACAGATGTGTTAGTGGCACCCAGGTCCACATGA
ACAACGTGACCGTAACGCTCCATGATGCCACCATCCAGGCGTACCTTTCCAACAGCAGCTTCAGCAGGGG
AGAGACACGCTGTGAACAAGACAGGCCTTCCCAACCACAGCGCCCTGCGCCACCCAGCCCTCGCCC
TCACCCGTGCCAAGAGCCCTCTGTGGACAAGTACAACGTGAGCGGCACCAACGGGACCTGCCTGCTGG
CCAGCATGGGGCTGCAGCTGAACCTCACCTATGAGAGGAAGGACAACACGACGGTGACAAGGCTTCTCAA
CATCAACCCCAACAAGACCTCGGCCAGCGGGAGCTGCGGCGCCACCTGGTGACTCTGGAGCTGCACAGC
GAGGGCACCCGCTCTGCTCTTCCAGTTCGGGATGAATGCAAGTCTAGCCGTTTTCTCAAGGAA
TCCAGTTGAATACAATTCTTCTGACGCGCAGAGACCTGCCTTTAAAGCTGCCAACGGCTCCCTGCGAGC
GCTGCAGGCCACAGTCGGAATTCTACAAGTGAACGCGGAGGAGCACGTCCTGTGACGAAGGCGTTT
TCAGTCAATATATTCAAAGTGTGGTCCAGGCTTTCAAGGTGGAAGGTGGCCAGTTTGGCTGTGGAGG
AGTGTCTGCTGGACGAGAACAGCATGCTGATCCCCATCGCTGTGGGTGGTGCCTGGCGGGCTGCTCT
CATCGTCTCATCGCTACCTCGTCGGCAGGAAGAGGAGTACGCAGGCTACCAGACTATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219208 representing NM_005561
Red=Cloning site Green=Tags(s)

MAAPGSARRPLLLLLLLLLLGLMHCASAAMFMVKNNGTACIMANFSAAFSVNYDTKSGPKNMTFDLPSD
 ATVVLNRSSCGKENTSDPSLVIAFGRGHTLTLNFTRNATRYSVQLMSFVYNLSDTHLFPNASSKEIKTVE
 SITDIRADIDKKYRCVSGTQVHMNNVTVLHDATIQAYLSNSSFSRGETRCEQDRPSPTTAPPAPPSPSP
 SPVPKSPSVDKYNVSGTNGTCLLASMGLQLNLT YERKDNTTVTRLLNINPNKTSASGSCGAHLVTLELHS
 EGTTVLLFQFGMNASSRFFLQGIQLNTILPDARDPAFKAANGSLRALQATVGN SYKCNAAEEHVRVTKAF
 SVNIFKVVWQAFKVEGGQFGSVVEECLLDENSMLIPIAVGGALAGLVLIVLIAYL VGRKRSHAGYQTI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005561

ORF Size: 1251 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005561.3](#), [NP_005552.3](#)

RefSeq Size: 2560 bp

RefSeq ORF: 1254 bp

Locus ID: 3916

UniProt ID: [P11279](#)

Cytogenetics: 13q34

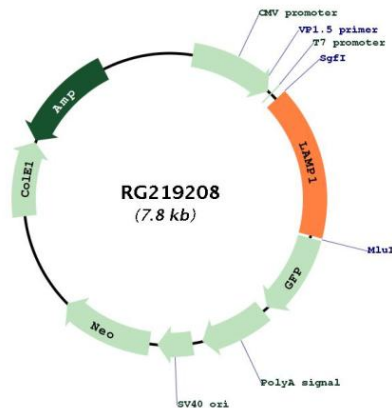
Domains: Lamp

Protein Families: 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 also play a role in tumor cell metastasis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219208