

Product datasheet for **MG225631**

Lamp1 (NM_010684) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lamp1 (NM_010684) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lamp1
Synonyms:	CD107a; Lamp-1; LGP-120; LGP-A; P2B; Perk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225631 representing NM_010684 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCGCGCCCGCGCGCTGCTCCTGCTGCTGCTGGCAGGCCTTGCACATGGCGCCTCAG
CACTCTTTGAGGTGAAAAACAATGGCACAACGTGTATAATGGCCAGCTTCTCTGCCTCCTTTCTGACCAC
CTACGAGACTGCGAATGGTTCTCAGATCGTGAACATTTCCCTGCCAGCCTCTGCAGAAGTACTGAAAAAT
GGCAGTCTTGTGGTAAAGAAAAATGTTTCTGACCCAGCCTCACAATTACTTTTGAAGAGGATATTTAC
TGACACTCAACTCACAAAAATACAACACGTTACAGTGTCCAGCATATGTATTTTACATATAAATTGTC
AGATACAGAACATTTTCCAATGCCATCAGCAAAGAGATCTACACCATGGATTCCACAACCTGACATCAAG
GCAGACATCAACAAGCATACCGGTGTGTGAGTATCCGGGTCTACATGAAGAATGTGACCGTTGTGC
TCCGGGATGCCACTATCCAGGCCTACCTGTGAGTGGCAACTTCAGCAAGGAAGAGACACACTGCACACA
GGATGGACCTTCCCAACCCTGGGCCACCCAGCCCTCACCCACTTGTGCCACAAACCCCACTGTA
TCCAAGTACAATGTTACTGGTAAACAACGGAACCTGCCTGCTGGCCTCTATGGCACTGCAACTGAATATCA
CCTACCTGAAAAAGGACAACAAGACGGTGACCAGAGCGTTCAACATCAGCCCAAATGACACATCTAGTGG
GAGTTGCGGTATCAACTTGGTGACCCTGAAAGTGGAGAACAAGAAGAGCCCTGGAATTGCAGTTTGGG
ATGAATGCCAGCTTAGCCTGTTTTTCTGCAAGGAGTGGCCTTGAATATGACTCTTCTGATGCCCTAG
TGCCACATTCAGCATCTCCAACCATTCCTGAAAGCTCTTCAAGCCACTGTGGAAACTCATAACAAGTG
CAACACTGAGGAACACATCTTTGTGAGCAAGATGCTCTCCCTCAATGTCTTCAGTGTGCAGTCCAGGCT
TTCAAGGTGGACAGTGACAGTTTGGTCTGTGGAAGAGTGTGTTGAGGATGGTAACAACATGTTGATCC
CCATTGCTGTGGCGGTGCCCTGGCAGGCTGCTCCTCATCGTCCTATTGCCTACCTCATTGGCAGGAA
GAGGAGTACGCCGGCTATCAGACCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225631 representing NM_010684
 Red=Cloning site Green=Tags(s)

MAAPGARRPLLLLLLAGLAHGASALFEVKNGTTCIMASFSASFLTTYETANGSQIVNISLPASAEVLKN
 GSSCGKENVSDPSLTITFGRGYLLTLNFTKNTTRYSVQHMYFTYNLSDTEHFPNAISKEIYTMDDTDIK
 ADINKAYRCVSDIRVYMKNVTVVLRDATIQAYLSSGNFSKEETHCTQDGPSPPTGPPSPPLVPTNPTV
 SKYNTVGNNGTCLLASMALQLNITYLKKDNKTVTRAFNISPNDTSSGSGCINLVLTKVENKNRALELQFG
 MNASSLFFLQGVRLNMTLPDALVPTFSISNHSLKALQATVGNYSKCNTEEHIFVSKMLSLNVFSVQVQA
 FKVDSDFRGSVEECVQDGNMILPIAVGGALAGLVLIVLIAYLIGRKRSHAGYQTI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010684

ORF Size: 1218 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_010684.3](#)

RefSeq Size: 2265 bp

RefSeq ORF: 1221 bp

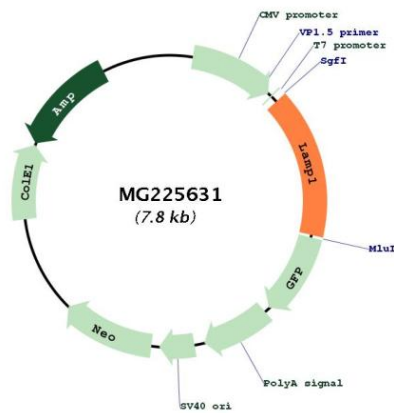
Locus ID: 16783

UniProt ID: [P11438](#)

Cytogenetics: 8 5.73 cM

Gene Summary: Presents carbohydrate ligands to selectins. Also implicated in tumor cell metastasis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225631