OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR221565

Lgmn (NM_011175) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lgmn (NM_011175) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lgmn
Synonyms:	A; AEP; AI746452; AU022324; Pr; Prsc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR221565 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCTGGAGAGTGGCTGTGCTTCTCAGCCTGGTGCTGGGTGCTGGTGCCGTTCCCGTCGGTGTGGACG
ATCCCGAGGATGGAGGCAAGCACTGGGTGGTGATTGTGGCGGGCTCCAATGGCTGGTATAATTACCGACA
CCAGGCAGACGCATGCCACGCCTACCAGATCATCCACCGGAACGGGATTCCTGACGAGCAGATCATAGTG
ATGATGTATGACGACATTGCCAACTCTGAAGAAAACCCTACCCCAGGTGTTGTGATCAACCGACCTAACG
GCACAGATGTATACAAGGGAGTCCTGAAGGACTACACCGGAGAGGATGTGACTCCAGAGAATTTCCTCGC
CGTGCTGAGAGGTGACGCAGAAGCTGTGAAGGGCAAAGGGTCTGGAAAAGTCTTGAAGAGTGGCCCCCGA
GATCATGTCTTCATTTACTTCACCGACCACGGAGCCACCGGGATCCTGGTGTTTCCTAATGATGATCTTC
ATGTCAAGGACCTGAATAAGACTATTCGCTACATGTATGAACACAAAATGTACCAGAAGATGGTGTTCTA
CATTGAAGCTTGTGAGTCTGGCTCCATGATGAACCACCTGCCCGACGACATCAACGTTTATGCAACTACT
GCGGCCAACCCCAAGGAGTCATCTTATGCCTGCTACTACGACGAGGAGAGGGGCACTTACCTGGGTGACT
GGTACAGCGTCAACTGGATGGAAGACTCCGATGTGGAGGACCTGACCAAAGAGACCCTTCACAAGCAGTA
CCACCTGGTCAAGTCCCACACCAACACCAGCCATGTCATGCAATATGGGAACAAATCTATCTCTACCATG
AAAGTGATGCAGTTTCAGGGAATGAAGCACAGAGCCAGTTCCCCCATCTCCCTGCCTCCGGTCACACACC
TTGACCTCACCCCCAGCCCTGACGTGCCCCTGACCATCTTGAAGAGGAAGCTGCTGAGAACCAACGACGT
GAAGGAATCCCAGAATCTCATTGGGCAGATCCAGCAATTTCTGGATGCCAGGCACGTCATTGAGAAGTCT
GTGCACAAGATCGTTTCCCTGCTGGCGGGATTTGGGGAAACTGCTGAGAGACATCTGTCAGAGAGGACCA
TGCTCACAGCACATGACTGCTACCAGGAGGCTGTAACCCACTTCCGCACACACTGCTTTAACTGGCACTC
TGTCACGTACGAGCATGCCTTGCGGTACTTGTATGTGCTGGCCAATCTCTGTGAGGCACCATATCCGATT
GACAGGATAGAGATGGCCATGGACAAAGTGTGTCTTAGTCACTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

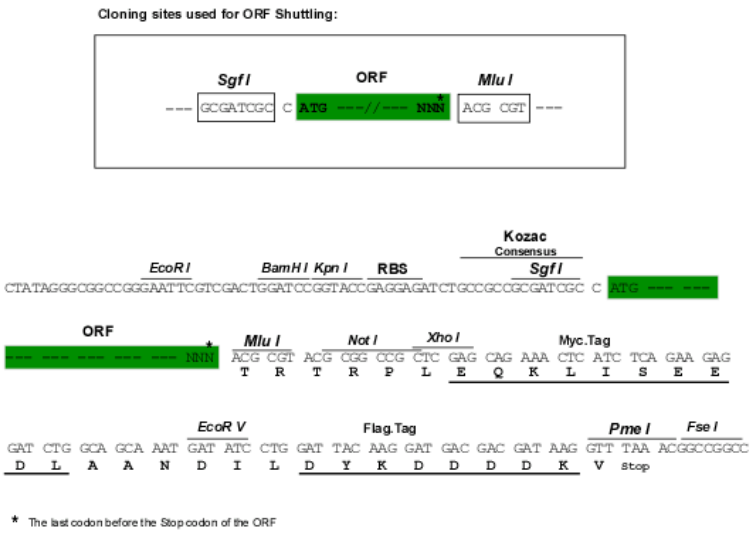
>MR221565 protein sequence
Red=Cloning site Green=Tags(s)

MTWRVAVLLSLVLGAGAVPVGVDDPEDGGKHWVVIVAGSNGWYNYRHQADACHAYQIIHRNGIPDEQIIV
MMYDDIANSEENPTPGVVINRPNGTDVYKGVLKDYTGEDVTPENFLAVLRGDAEAVKGKGSGKVLKSGPR
DHVFIYFTDHGATGILVFPNDDLHVKDLNKTIRYMYEHKMYQKMVFYIEACESGSMMNHLPDDINVYATT
AANPKESSYACYYDEERGTYLGDWYSVNWMEDSDVEDLTKETLHKQYHLVKSHTNTSHVMQYGNKSISTM
KVMQFQGMKHRASSPISLPPVTHLDLTPSPDVPLTILKRKLLRTNDVKESQNLIGQIQQFLDARHVIEKS
VHKIVSLLAGFGETAERHLSERTMLTAHDCYQEAVTHFRTHCFNWHSVTYEHALRYLYVLANLCEAPYPI
DRIEMAMDKVCLSHY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011175

ORF Size: 1308 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_011175.4

RefSeq Size: 1874 bp

RefSeq ORF: 1308 bp

Locus ID: 19141

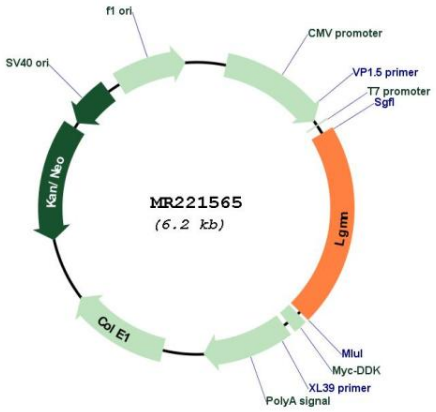
UniProt ID: O89017

Cytogenetics: 12 E

MW: 49.4 kDa

Gene Summary: This gene encodes a member of the cysteine peptidase family C13 that plays an important role in the endosome/lysosomal degradation system. The encoded inactive preproprotein undergoes autocatalytic removal of the C-terminal inhibitory propeptide to generate the active endopeptidase that cleaves protein substrates on the C-terminal side of asparagine residues. Mice lacking the encoded protein exhibit defects in the lysosomal processing of proteins resulting in their accumulation in the lysosomes, and develop symptoms resembling hemophagocytic lymphohistiocytosis. [provided by RefSeq, Aug 2016]

Product images:



Circular map for MR221565