

## Product datasheet for **MG221565**

### Lgmn (NM\_011175) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lgmn (NM_011175) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lgmn
Synonyms:	A; AEP; AI746452; AU022324; Pr; Prsc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221565 representing NM_011175 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCTGGAGAGTGGCTGTGCTTCTCAGCCTGGTGTGGGTGCTGGTGCCTCCCGTCCGGTGTGGACG  
ATCCCCGAGGATGGAGGCAAGCACTGGGTGGTATTGTGGCGGGCTCCAATGGCTGGTATAATTACCGACA  
CCAGGCAGACGCATGCCACGCCTACCAGATCATCCACCGAACGGGATTCCCTGACGAGCAGATCATAGT  
ATGATGTATGACGACATTGCCAACTCTGAAGAAAACCTACCCCAGGTGTGTGATCAACCGACCTAACG  
GCACAGATGTATAAAGGGAGTCTGAAGGACTACACCGAGAGGATGTGACTCCAGAGAATTTCCCTCGC  
CGTGCTGAGAGGTGACGCAAGAAGCTGTGAAGGGCAAAGGGTCTGGAAAAGTCTTGAAGAGTGGCCCCGA  
GATCATGTCTTCAATTTACTTCACCGACCACGGAGCCACCGGGATCCTGGTGTTCCTAATGATGATCTTC  
ATGTCAAGGACCTGAATAAGACTATTCGCTACATGTATGAACACAAAATGTACCAGAAGATGGTGTCTA  
CATTGAAGCTTGTGAGTCTGGCTCCATGATGAACACCTGCCCGACGACATCAACGTTTATGCAACTACT  
GCGGCCAACCCCAAGGAGTCACTTATGCCTGCTACTACGACGAGGAGAGGGGCACTTACCTGGGTGACT  
GGTACAGCGTCAACTGGATGGAAGACTCCGATGTGGAGGACCTGACCAAAGAGACCCTTACAAGCAGTA  
CCACCTGGTCAAGTCCCACACCAACACCAGCCATGTGCAATATGGGAACAAATCTATCTCTACCATG  
AAAGTGTGACGTTTCAGGGAATGAAGCACAGAGCCAGTCCCCCATCTCCCTGCCTCCGGTCAACACCC  
TTGACCTACCCCAGCCCTGACGTGCCCTGACCATCTTGAAGAGGAAGCTGCTGAGAACCAACGACCT  
GAAGGAATCCCAGAATCTCATTGGGCAGATCCAGCAATTTCTGGATGCCAGGCACGTCATTGAGAAGTCT  
GTGCACAAGATCGTTTCCCTGCTGGCGGGATTTGGGAAACTGCTGAGAGACATCTGTCAGAGAGGACCA  
TGCTCACAGCACATGACTGCTACCAGGAGGCTGTAACCCACTTCCGCACACACTGCTTTAACTGGCACTC  
TGTCACGTACGAGCATGCCTTGCAGTACTTGTATGTGCTGGCCAATCTCTGTGAGGCACCATATCCGATT  
GACAGGATAGAGATGGCCATGGACAAAGTGTGTCTTAGTCACTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221565 representing NM\_011175  
 Red=Cloning site Green=Tags(s)

MTWRVAVLLSLVLGAGAVPVGVDDPEDGGKHWVIVAGSNGWYNYRHQADACHAYQIIHRNGIPDEQIIV  
 MMYDDIANSEENPTPGVVINRPNGTDVYKGVLDYTDGDTVPENFLAVLRGDAEAVKKGSGKVLKSGPR  
 DHVFIYFDHGATGILVFPNDLHVKDLNKTIRYMYEHKMYQKMFYIEACESGSMNHLPDDINVYATT  
 AANPKESSYACYDEERGTYLGDWYSVNWMESSDVELTKETLHKQYHLVKSHTNTSHVMQYGNKSI STM  
 KVMQFQGMKHRASSPISLPPVTHLDLTPSPDVPLTILKRKLLRTNDVKESQNLIGQIQFLDARHVEKS  
 VHKIVSLLAGFGETAERHLSERTMLTAHDCYQEAVTHFRTHCFNWSVTYEHALRYLYVLANLCEAPYPI  
 DRIEMAMDKVCLSHY

TRTRPLE - GFP Tag - V

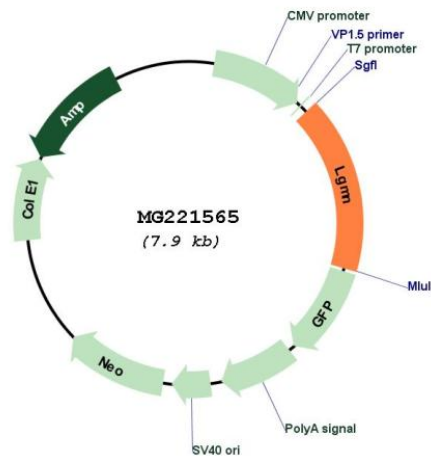
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_011175

<b>ORF Size:</b>	1305 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_011175.4</a>
<b>RefSeq Size:</b>	1874 bp
<b>RefSeq ORF:</b>	1308 bp
<b>Locus ID:</b>	19141
<b>UniProt ID:</b>	<a href="#">O89017</a>
<b>Cytogenetics:</b>	12 E
<b>Gene Summary:</b>	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]