

Product datasheet for **MG221190**

Lmod3 (NM_001081157) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lmod3 (NM_001081157) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lmod3
Synonyms:	5430424A14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221190 representing NM_001081157.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTCGGGGCACAGCAGGAATTCGGAGCAAGAAGACACCCTTAGTGAGGAGCTCGATGAAGACGAACTC
TAGCCAACCTTATCCCCTGAAGAGCTGAAGGAAGTGCAGTCAGAGATGGAAGTCATGGCCCTGACCCC
CACCTTCTGTGGGATGATCCAAAAGGATCAAACAGACAAGGCACCCACAGGAACTTCAACCATAAG
TCTCTCGTTGATTACATGATTTTCAAAAAGGCGCTAGACGCATGCTGGAAGATGAACGAGTTCTCTGTC
AATTTTGTGAGTCTGAGAAAAACTCAAACCAGCGTGAAGTAGGAGACAAGGCATTAACAAATG
CCCCAGTTTTTAAAGAAAAGCTCAATAGTGAAATCCTTGCAAAGAAAAGAGAATCAAATGGGAGCAAC
AATGTACAAGAAGCAGAAGATGATGATGAAGATGAAGAGGAGGAGGAAGATGACGAAGATGAAGAGGAG
GAGGAAGAAGATGAAGAGGATGATGAAGGGGAAGAGGATGAAGATGGTGAACAAGCCAACAGAGAAAA
AATGACGCAAAAAGACAAATCCACAACAATCCGGGCACCTGCCAGCAACTGGCTACTAAAACAGCGGAC
GAGCAAAAAGACACATCAGAGACCAAGAAAAAGGTGAGAAGAAAATAGCCAAATTAGACCTAAGAAG
TTAGCTCTAGATACCAGTTTTCTGAAGGTAAGTGCAGAGGCCCTCAGGGAACCAGACAGACCTGGACGGG
AGCTTGAGACGAGTGAGACAGAACGACCCTGACATGAAGGAACTCAACCTGAACAACATTGAAAATATC
CCTAAAGAAATGTTGCTGGACTTCGTCAATGCCATGAAGAAAAACAAACACATCAAAACCTTCAGTTTA
GCCAACGTCGGTCTGATGAGAGCGTAGCGTTCGCCCTGGCCAACATGCTGCGGGAAAACAGGAGCGTC
ACCACCCTCAATATTGAGTCCAACCTTCACTGGGAAGGGCATCGTGGCCATCATGAGGTGCCTCCAG
TTCAATGAAACGCTAACTGAACTTCGGTTTCAACACCAGAGACATATGCTAGGCCACCACGCCGAAATG
GAAATATCCAGGCTTCTGAAGGCCAACCACTCTGTTGAAGATGGGCTACCATTTGAGCTTCCGGGT
CCCAGAAATGGTGGTAACGAATCTGCTTACCAGGAACCAGGATAAACGGAGGCAGAAACAGAGAGGAA
CAGCAGCAGCAGCAACTTAAAGAGCAGAGAAAGCTGATAGCTATGTTGGAGAATGGGTTGGGGCTGCC
CCTGGGATGTGGGAAAGTTGGGAGACCATGCCCGACCCAGAAATGCAGGAGTTCTTCCAGCCTGCA
TCTGGGCGGCCCTCGATGCTCAGGAAGTCCCCTTTGGTTCAAGAAAGGAAATGATCAAAAATCCGCC
CAGCCTCCACAGTGCAAGACGGACCCTGACTCCTTCAAGGTGGTGAAGCTGAAGAGAATTCAGCGCAAA
TCTCGAATGCCGGAAGCCAGAGAGGCACAGGAGAAAACCAACCTCAAAGATGTAATCAAAACGCTCAAG
CCAGTGCCGAGAAATAGGCCGCCCGCTGGTGGAAATCACTCCAGAGACCAGCTCTTGAATGACATC
CGACACAGCAATGTCGCCTACCTTAAACCTGTGCAACTGCCAAAGGAGCTGGAG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by MG221190
 Blue=ORF Red=Cloning site Green=Tag(s)

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MSGHSRNSQEDTLSEELDEDELLANLSPEELKELQSEMEVMAPDPLPVGMIQDKDQTDKAPTGNFNHK
SLVDYMYLQKASRRMLEDERVPVNFVQSEKNTQNQREVGDKGIKNMPQFLKEKLNSEILAKKRESNGSN
NVQEAEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEGEQANREKNDAKEQIHNNPGTCQQLATKTAD
EQKDTSETKEKGEKIIAKLDPKKLALDTSFLKVSARPSGNQTDLDGSLRRVRQNDPDMKELNLNNIENI
PKEMLLDFVNAMKKNKHICTFSLANVGADSVAFALANMLRENRSVTTLNIESNFIITGKIVAIMRCLQ
FNETLTELRFHNQRHMLGHAEMEISRLKANTLLKMGYHFELPGPRMVVTNLLTRNQDKRRQKRQEE
QQQQQLKEQRKLIAMLENGLGLPPGMWERLGGPMPDPRMQEFFQPASGRPLDAQEVPFGSRKEMIKNPP
QPPQCKTDPDSFRVVKLKRIQRKSRMPEAREAQEKTNLKDVIKTLKPVPRNRPPPLVEITPRDQLLNDI
RHSNVAYLKPVLPELE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001081157

ORF Size: 1710 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 Size: 2242 bp

RefSeq ORF: 1716 bp

Locus ID: 320502

UniProt ID: [E9QA62](#)

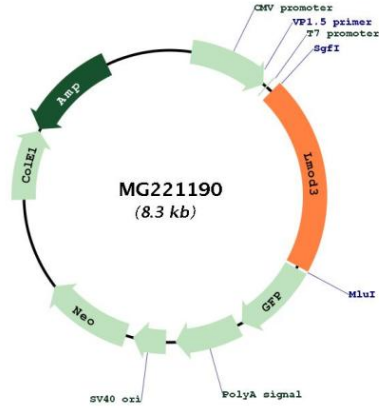
Cytogenetics: 6 D3

MW: 65.5 kDa

Gene Summary:

Essential for the organization of sarcomeric actin thin filaments in skeletal muscle (PubMed:25774500, PubMed:26035871). Increases the rate of actin polymerization (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG221190