

Product datasheet for **MG216300**

Lmod2 (NM_053098) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lmod2 (NM_053098) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lmod2
Synonyms:	C-Lmod
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216300 representing NM_053098
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTACGTTTGGCTACAGAAGGGGACTTAGTAAATATGAATCCATTGATGAGGATGAACCTTCTGGCCT
 CCCTCTCACCTGAAGAGCTGAAGGAGCTTGAGAGGGAGCTGGAAGACATTGAACCTGACCGAAACCTTCC
 TGTGGGGCTAAGGCAAAAGAGTCTGACAGAGAAAACCCCAACAGGAACTTCAGCCGAGAGGCGCTGATG
 GCGTATTGGGAAAAGGAGTCCAAAAACTTTTGGAGAAGGAACGGCTGGGGGAATGTGGAAGGTTGCAG
 AAGAAGACAAGGAAGAGAGTGAAGAGGAACTAATTTTACAGAGAGCAACAGCGAAGTCTCTGAGGAGGT
 GTGTACAGAAGATGAGGAAGAGTCTCAGGAGGAAGAAGAGGATAGCGAGGAAGAAGAGGACAGTGAAGAA
 GAGGAAGAGACAACAGAAGCCACAAAACATATTAATGAACTGTAAGCTACAATAGTGTAAATACTGATA
 ACTCTAAGCCAAAGACATTTAAAAGCCAAATAGAAAATAAAATTTAACCAACGGCAACAGTGAAGAAC
 ACAGAGGAACTCCGAGTACCAGCCGCCATTACCCCTTGTGGAATCCCCTGTTATTGAGGATGCTCTG
 GAAAAGATTAGAAAACATGACCCTGATACGACAGAAGTTAATCTGAACAATATAGAGAACATCACCAACC
 AGACCTTATCCCGATTTGCTGAAGCTCTCAAGGAGAACACAGTGGTGAAGACGTTTCAGCCTGGCCAACAC
 GCACGCTGATGACGCCGCGCGATTGCCATTGCAGACATGCTCAAGGTTAACGAGCACATTACCAGCGTA
 AACGTGGAGTCCAACCTTCATCACTGGCAAGGGGATCCTGGCCATCATGAGAGCCCTGCAGCACAACACGG
 TGCTCACGGAGCTGCGCTCCACAACCAGCGGCACATCATGGGCTCTCAGGTGGAGATGGAATTTGCAA
 GCTGCTCAAAGAGAATACCACGCTGTGAGGCTGGGCTACCATTTTGTAGCTCCCAGGACCAAGAATGAGT
 ATGACGAGTATTTTAAACAAGGAATATGGATAAACAGAGGCAAAAACGCATGCAGGAGCAAAAACAGCAAG
 ATGGGCGCAGTGGAGGAGCTGCTCTTAGGACCAAAGCTGGCAAAGAGGGACACCTGGCTCTTCTCCATA
 TGCATCTCCGAGACAGTCTCCCTGGTCACTCCCAAAGTCTCCAAGAAAGTCCACACTGGGAGGAGCAGA
 CCTCCATCTCCTGTGGCCCCGCCTCCACCCCTCCCCCTCCTCCTTCTCCACATGCTGCCTCCTC
 CCCCTCTCCCCCTGCTCCTCCACTCCCAGAGAAAAGCTCATCACAGAAAACATTGCAGAAGTCATTAA
 ACAACAGGAAAGTGCCAGCGCGCCCTACAAAATGGACAGCGAAAGAAAAAGGGAAAAAGGTTAAGAAA
 CAACCAACAATATCCTAAAGGAAATTAAGAATTCTCTGAGGTGAGTGAAGAGAAGAAAATGGAAGACA
 GCTCCCGACCCTTACCCACAGAGATCAGTTCATGAGAACCTCATGGAAGCCATTCCGGGGAGCAGTAT
 AAGACAGCTACGGAGGTGGAAGTCCCGAAGCTCTGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216300 representing NM_053098
 Red=Cloning site Green=Tags(s)

MSTFGYRRGLSKYESIDEDELLASLSPEELKELERELEDIEPDRNLPVGLRQKSLTEKTPTGNFSREALM
 AYWEKESQKLEKERLGECGKVAEEDKEESEELIFTESNSEVSEEVCTEDEEESQEEEEDEEEEDSEE
 EETTEATKHINGTVSYNSVNTDNSKPKTFKSQIENINLTNGNSGRTQRNSESPAIIHPCGNPTVIEDAL
 EKIRNNDPDTTEVNLNNIENITTQTLSRFAEALKENTVVKTFSLANTHADDAAAIAIADMLKVNEHITSV
 NVESNFITGKGILAIMRALQHNTVLTSLRFHNQRHIMGSQVEMEVKLLKENTLLRLGYHFFELPGPRMS
 MTSILTRNMDKQRQKRMQEQKQEGHDGGAALRTKVVQRGTPGSSPYASPRQSPWSSPKVSKVHTGRSR
 PPSPVAPPPPPPPPLPPHMLPPPPPPAPPLPEKKLITRNI AEVIKQESAQRALQNGQRKKKGGKVKV
 QPNNILKEIKNSLRVQEKKMEDSSRPSTPQRSVHENLMEAIRGSSIRQLRRVEVPEALR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_053098

ORF Size: 1650 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_053098.2](#), [NP_444328.1](#)

RefSeq Size: 1967 bp

RefSeq ORF: 1653 bp

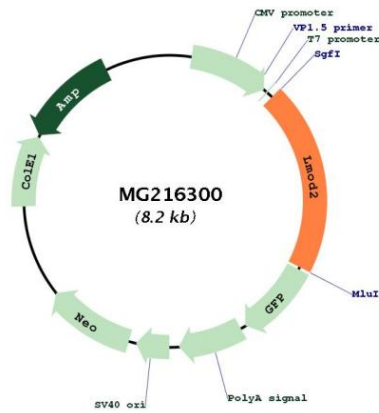
Locus ID: 93677

UniProt ID: [Q3UHZ5](#)

Cytogenetics: 6 A3.1

Gene Summary: Mediates nucleation of actin filaments and thereby promotes actin polymerization (By similarity). Plays a role in the regulation of actin filament length (PubMed:26487682). Required for normal sarcomere organization in the heart, and for normal heart function (PubMed:26487682, PubMed:27274810).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216300