

Product datasheet for **MC201092**

Lmna (NM_001002011) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lmna (NM_001002011) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lmna
Synonyms:	Dhe
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC015302 sequence for NM_001002011
 CCACGCCTGCCAGGAGCGAGCTTCGCCGGCTCGCTGTCCCCTGAGCAGCCTCTGTCTTCTGTCCAAGT
 CCCGCGCCTTCTCGGGACCCCTGCCAGCGGGCAGCACTGTACCCTGCCGGCCATGGAGACCCCGTCA
 CAGCGGCGCGCCACCCGAGTGGGGCGCAGGCCAGCTCTACCCACTGTCCGCCACTCGGATCACCCGGC
 TGCAGGAGAAGGAGGACCTGCAGGAGCTCAATGACCGCTGGCCGTGTACATCGATCGCGTGCCTCCCT
 GGAGACCGAGAACCGGGGCTGCGCCTTCGCATCACTGAGTCTGAAGAGTGGTCAGCCGAGAGGTGCC
 GGATCAAGCGGCCTACGAGGCCGAGCTGGGGATGCCGCAAGACCCTTGATTCTGTGGCCAAGGAGC
 GCGCCCGCTCCAGCTAGAGCTGAGCAAAGTGCCTGAGGAGTTCAAGGAGCTGAAGGCTCGCAACACCAA
 GAAGGAGGGGACTTGTGGCTGCGCAGGCCCGCTCAAGGACCTCGAGGCTCTTCTCAACTCCAAGGAA
 GCTGCCCTGAGCACTGCTCTCAGTGAGAAGCGCACATTGGAGGGCAGCTCCATGACCTGCGGGGCGAGG
 TAGCCAAGCTTGAGGCGGCCCTGGGAGAGGCTAAGAAGCAGCTTCAGGATGAGATGCTGAGGCGAGTGGA
 TGCTGAGAACAGGCTACAGACGCTGAAGGAGGAGCTTGACTTCCAGAAGAATTTACACGCGAGGAACTG
 CGTGAGACCAAGCGCCGCATGAGACGCGGCTTGTGGAGATCGATAACGGGAAGCAGCGAGAGTTTGA
 GCCGGCTGGCAGATGCCCTGCAGGAGCTCGGGCTCAGCATGAGGACCAGGTGGAACAGTATAAGAAGGA
 GCTAGAAAAGACATACTCCGCCAAGCTGGATAATGCCAGGCAGTCTGCTGAGAGGAACAGCAACCTCGTG
 GGGGCTGCCATGAGAACTGCAGCAGTCTCGAATCCGCATTGACAGCCTCTCGGCCAGCTCAGCCAGC
 TCCAAAAGCAGTTGGCAGCCAAGGAGGCAAGCTGCGTGACCTGGAGGACTCGCTGGCCCGTGAGCGCGA
 TACCAGCCGGCGCCTGCTGGCTGAGAAAGAGCGAGAGATGGCGGAGATGCGGGCGAGGATGCAGCAGCAG
 CTGGACGAGTACCAGGAGCTGCTGGACATCAAGCTGGCCCTGGACATGGAGATCCATGCCTATCGAAAGC
 TGCTGGAGGGCGAGGAGGAGAGGCTGCGCCTGTCCCCAGCCCTACCTCGCAGCGCAGCCGTGGCCGCGC
 CTCTCCCACTCATCCCAGTCTCAGGGTGGAGGACGCGTACCAAAAAGCGCAAGCTGGAGTCTTCCGAG
 AGCCGGAGCAGCTTCTCGCAGCATGCTCGCACTAGCGGGCGTGTGGCGGTAGAGGAAGTCGATGAAGAGG
 GAAAGTTCTGTGCGGCTGCGCAACAAGTCCAACGAGGACCAGTCCATGGGCAACTGGCAGATCAGGCGTCA
 GAATGGTGACGATCCTTTGATGACCTATCGCTTCCCACCGAAGTTCACCTAAAGGCTGGGCAGGTGGTG
 ACGATCTGGGCTTCAGGAGCTGGGGCCACCCATAGCCCCCTACTGACTTGGTGTGGAAGGCGCAGAACA
 CCTGGGGCTGTGGGAGCAGCCTTCGCACCCTCTCATCAACTCCACTGGAGAAGAAGTGGCCATGCGCAA
 GCTGGTGCCTCACTGACCATGGTTGAGGACAATGAGGATGACGACGAGGATGGAGAAGAGCTCCTCCAT
 CACCACCGTGGTCCCCTGCAGCGGCTCGGGGACCCCGCTGAGTACAACCTGCGCTCACGCACCGTGC
 TGTGCGGGACGTGTGGGACGCTGCTGACAAGGCTGCCGGTGGAGCGGGAGCCCAGGTGGGCGGATCCAT
 CTCCTCTGGCTCTTCTGCCTCCAGTGTACAGTCACTCGAAGCTTCCGCAGTGTGGGGGCGAGTGGGGT
 GGCAGCTTCGGGGACAACCTAGTCACCCGCTCCTACCTCCTGGGCAACTCCAGTCCCGGAGCCAGAGCT
 CCCAGAACTGCAGCATCATGTAATCTGGGACCTGCCAGGCAGGGCTGGGGGCGAGAGGCCACTGCTCCCC
 CCTCACCACATGCCACCTCCTGTCTGCTCCTTAGGAGAGCAGGCCTGAAGCCAAAGAAAAATTTATCCCC
 TGCCCTTGGTTTTTTTTTTTTTTTCTTCTATTTTTTTTTTTCTTTTTCTAAGAGAAGTTATTTTCTACAGTG
 GTTTTATACTGAAGGAAAAACTCAAGCAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_001002011

Insert Size: 1998 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](#)

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: [BC015302](#), [AAH15302](#)

RefSeq Size: 2354 bp

RefSeq ORF: 1998 bp

Locus ID: 16905

UniProt ID: [P48678](#)

Cytogenetics: 3 38.84 cM

Gene Summary:

This gene encodes a protein that is a member of the lamin family. Nuclear lamins, intermediate filament-like proteins, are the major components of the nuclear lamina, a protein meshwork associated with the inner nuclear membrane. This meshwork is thought to maintain the integrity of the nuclear envelope, participate in chromatin organization, and regulate gene transcription. Vertebrate lamins consist of two types, A and B. This protein is an A-type and is proposed to be developmentally regulated. In mouse deficiency of this gene is associated with muscular dystrophy. Mouse lines with different mutations in this gene serve as pathophysiological models for several human laminopathies. In humans, mutations in this gene lead to several diseases: Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, May 2013]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (A). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.