

Product datasheet for **MG227597**

Lmna (NM_001111102) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lmna (NM_001111102) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lmna
Synonyms:	Dhe
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227597 representing NM_001111102
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGACCCCGTCACAGCGGCGGCCACCCCGAGTGGGGCGCAGGCCAGCTCTACCCACTGTCGCCCCA
 CTCGGATCACCCGGCTGCAGGAGAAGGAGGACCTGCAGGAGCTCAATGACCGCCTGGCCGTGTACATCGA
 TCGCGTGCCTCCCTGGAGACCGAGAACCGGGGCTGCGCCTTCGCATCACTGAGTCTGAAGAGGTGGTC
 AGCCGAGAGGTGTCCGGCATCAAGGCGGCCTACGAGGCCGAGCTGGGGATGCCGCAAGACCCCTTGATT
 CTGTGGCCAAGGAGCGCGCCCGCTCCAGCTAGAGCTGAGCAAAGTGCCTGAGGAGTTCAAGGAGCTGAA
 GGCTCGCAACACCAAGAAGGAGGGGGACTTGTGGCTGCGCAGGCCCGCTCAAGGACCTCGAGGCTCTT
 CTAACCTCAAGGAAGCTGCCCTGAGCACTGCTCTCAGTGAAGCGCACATTGGAGGGCGAGCTCCATG
 ACCTGCGGGGGCAGGTAGCCAAGCTTGAAGCGCCCTGGGAGAGGCTAAGAAGCAGCTTCAGGATGAGAT
 GCTGAGGCGAGTGGATGCTGAGAACAGGCTACAGACGCTGAAGGAGGAGCTTGACTTCCAGAAGAACATT
 TACAGCGAGGAACCTGCGTGAGACCAAGCGCCGGCATGAGACGCGGCTTGTGGAGATCGATAACGGGAAGC
 AGCGAGAGTTTGAAGCCGGCTGGCAGATGCCCTGCAGGAGCTGCGGGCTCAGCATGAGGACCAGGTGGA
 ACAGTATAAGAAGGAGCTAGAAAAGACATACTCCGCCAAGCTGGATAATGCCAGGCAGTCTGCTGAGAGG
 AACAGCAACCTCGTGGGGCTGCCCATGAGGAAGTGCAGCAGTCTCGAATCCGCATTGACAGCCTCTCGG
 CCCAGCTCAGCCAGCTCCAAAAGCAGTTGGCAGCAAGGAGGCAAAGCTGCGTGACTGGAGGACTCGCT
 GGCCCGTAGCGCGATACCAGCCGGCGCCTGCTGGCTGAGAAAGAGCGAGAGATGGCGGAGATGCGGGCG
 AGGATGCAGCAGCAGCTGGACGAGTACCAGGAGCTGCTGGACATCAAGCTGGCCCTGGACATGGAGATCC
 ATGCCATCGAAAAGCTGCTGGAGGGCGAGGAGGAGGCTGCGCCTGTCCCCAGCCCTACCTCGCAGCG
 CAGCCGTGGCCGCGCCTCCTCCACTCATCCAGTCTCAGGGTGGAGGCAGCGTACCAAAAAGCGCAAG
 CTGGAGTCTTCCGAGAGCCGGAGCAGTCTCTCGCAGCATGCTCGCACTAGCGGGCGTGTGGCGGTAGAGG
 AAGTCGATGAAGAGGGAAAGTTCTGTCGGCTGCGCAACAAGTCCAACGAGGACCAGTCCATGGGCAACTG
 GCAGATCAGGCGTCAGAAATGGTGACGATCCTTTGATGACCTATCGCTTCCACCGAAGTTACCCTAAAG
 GCTGGGCAGGTGGTGACGATCTGGGCTTACAGGAGCTGGGGCCACCCATAGCCCCCTACTGACTTGGTGT
 GGAAGGCGCAGAACACCTGGGGCTGTGGGAGCAGCCTTCGCACCGCTCTCATCACTCCACTGGAGAAGA
 AGTGGCCATGCGCAAGCTGGTGCCTCACTGACCATGGTTGAGGACAATGAGGATGACGACGAGGATGGA
 GAAGAGCTCCTCCATACCACCGTGTGAGTGGCAGCCCGCCG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG227597 representing NM_001111102
 Red=Cloning site Green=Tags(s)

METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVRSLTENAGLRLRITESEEVV
 SREVSGIKAAYEAEELGDARKTLDSVAKERARLQLEL SKVREEFKELKARNTKKEGDLAAQARLKDLEAL
 LNSKEAALSTALSEKRTLEGELHDLRGVAKLEAALGEAKQLQDEMLRRVDAENRLQTLKEELDFQKNI
 YSEELRETKRRHETRLVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQSAER
 NSNLVGAHEELQQSRIRIDSLSAQLSQLQQLAAKEAKLRDLEDSLARERDTSRLLAEKEREMAEMRA
 RMQQQLDEYQELLDIKLALDMEIHAYRKLEEGEEERLRLSPSPTSQRSRGRASSHSQSQGGSVTKKRK
 LESSESRSFSQHARTSGRVAVEEVDEEGKFVRLRNKSNEDQSMGNWQIRRRQNGDDPLMTYRFPKF TLK
 AGQVVTIWASGAGATHSPPTDLVWKAQNTWCGSSLRALINSTGEEVAMRKLVRSLTMVEDNEDDDEDG
 EELLHHHRVSGSRR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001111102

ORF Size: 1722 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_001111102.2](#)

RefSeq Size: 2045 bp

RefSeq ORF: 1725 bp

Locus ID: 16905

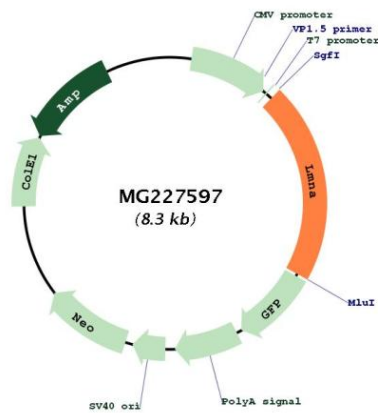
UniProt ID: [P48678](#)

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]

Product images:



Circular map for MG227597