OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG209880

Lmna (NM_001002011) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lmna (NM_001002011) 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)

View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

ORF Nucleotide Sequence:

>MG209880 representing NM_001002011
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGACCCCGTCACAGCGGCGCGCCACCCGCAGTGGGGCGCAGGCCAGCTCTACCCCACTGTCGCCCA
CTCGGATCACCCGGCTGCAGGAGAAGGAGGACCTGCAGGAGCTCAATGACCGCCTGGCCGTGTACATCGA
TCGCGTGCGTTCCCTGGAGACCGAGAACGCGGGGCTGCGCCTTCGCATCACTGAGTCTGAAGAGGTGGTC
AGCCGAGAGGTGTCCGGCATCAAGGCGGCCTACGAGGCCGAGCTGGGGGATGCCCGCAAGACCCTTGATT
CTGTGGCCAAGGAGCGCGCCCGCCTCCAGCTAGAGCTGAGCAAAGTGCGTGAGGAGTTCAAGGAGCTGAA
GGCTCGCAACACCAAGAAGGAGGGGGACTTGTTGGCTGCGCAGGCCCGGCTCAAGGACCTCGAGGCTCTT
CTCAACTCCAAGGAAGCTGCCCTGAGCACTGCTCTCAGTGAGAAGCGCACATTGGAGGGCGAGCTCCATG
ACCTGCGGGGGCAGGTAGCCAAGCTTGAGGCGGCCCTGGGAGAGGCTAAGAAGCAGCTTCAGGATGAGAT
GCTGAGGCGAGTGGATGCTGAGAACAGGCTACAGACGCTGAAGGAGGAGCTTGACTTCCAGAAGAACATT
TACAGCGAGGAACTGCGTGAGACCAAGCGCCGGCATGAGACGCGGCTTGTGGAGATCGATAACGGGAAGC
AGCGAGAGTTTGAGAGCCGGCTGGCAGATGCCCTGCAGGAGCTGCGGGCTCAGCATGAGGACCAGGTGGA
ACAGTATAAGAAGGAGCTAGAAAAGACATACTCCGCCAAGCTGGATAATGCCAGGCAGTCTGCTGAGAGG
AACAGCAACCTCGTGGGGGCTGCCCATGAGGAACTGCAGCAGTCTCGAATCCGCATTGACAGCCTCTCGG
CCCAGCTCAGCCAGCTCCAAAAGCAGTTGGCAGCCAAGGAGGCAAAGCTGCGTGACCTGGAGGACTCGCT
GGCCCGTGAGCGCGATACCAGCCGGCGCCTGCTGGCTGAGAAAGAGCGAGAGATGGCGGAGATGCGGGCG
AGGATGCAGCAGCAGCTGGACGAGTACCAGGAGCTGCTGGACATCAAGCTGGCCCTGGACATGGAGATCC
ATGCCTATCGAAAGCTGCTGGAGGGCGAGGAGGAGAGGCTGCGCCTGTCCCCCAGCCCTACCTCGCAGCG
CAGCCGTGGCCGCGCCTCCTCCCACTCATCCCAGTCTCAGGGTGGAGGCAGCGTCACCAAAAAGCGCAAG
CTGGAGTCTTCCGAGAGCCGGAGCAGCTTCTCGCAGCATGCTCGCACTAGCGGGCGTGTGGCGGTAGAGG
AAGTCGATGAAGAGGGAAAGTTCGTGCGGCTGCGCAACAAGTCCAACGAGGACCAGTCCATGGGCAACTG
GCAGATCAGGCGTCAGAATGGTGACGATCCTTTGATGACCTATCGCTTCCCACCGAAGTTCACCCTAAAG
GCTGGGCAGGTGGTGACGATCTGGGCTTCAGGAGCTGGGGCCACCCATAGCCCCCCTACTGACTTGGTGT
GGAAGGCGCAGAACACCTGGGGCTGTGGGAGCAGCCTTCGCACCGCTCTCATCAACTCCACTGGAGAAGA
AGTGGCCATGCGCAAGCTGGTGCGCTCACTGACCATGGTTGAGGACAATGAGGATGACGACGAGGATGGA
GAAGAGCTCCTCCATCACCACCGTGGTTCCCACTGCAGCGGCTCGGGGGACCCCGCTGAGTACAACCTGC
GCTCACGCACCGTGCTGTGCGGGACGTGTGGGCAGCCTGCTGACAAGGCTGCCGGTGGAGCGGGAGCCCA
GGTGGGCGGATCCATCTCCTCTGGCTCTTCTGCCTCCAGTGTCACAGTCACTCGAAGCTTCCGCAGTGTG
GGGGGCAGTGGGGGTGGCAGCTTCGGGGACAACCTAGTCACCCGCTCCTACCTCCTGGGCAACTCCAGTC
CCCGGAGCCAGAGCTCCCAGAACTGCAGCATCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Sequence:

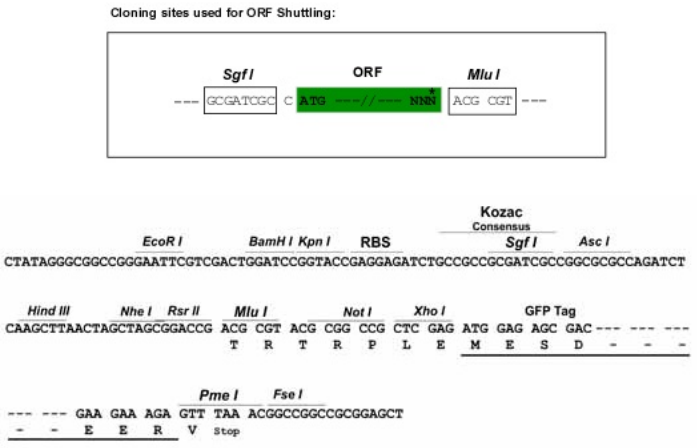
>MG209880 representing NM_001002011
Red=Cloning site Green=Tags(s)

METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVRSLETENAGLRLRITESEEVV
SREVSGIKAAYEAELGDARKTLDSVAKERARLQLELSKVREEFKELKARNTKKEGDLLAAQARLKDLEAL
LNSKEAALSTALSEKRTLEGELHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENRLQTLKEELDFQKNI
YSEELRETKRRHETRLVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQSAER
NSNLVGAAHEELQQSRIRIDSLSAQLSQLQKQLAAKEAKLRDLEDSLARERDTSRRLLAEKEREMAEMRA
RMQQQLDEYQELLDIKLALDMEIHAYRKLLEGEEERLRLSPSPTSQRSRGRASSHSSQSQGGGSVTKKRK
LESSESRSSFSQHARTSGRVAVEEVDEEGKFVRLRNKSNEDQSMGNWQIRRQNGDDPLMTYRFPPKFTLK
AGQVVTIWASGAGATHSPPTDLVWKAQNTWGCGSSLRTALINSTGEEVAMRKLVRSLTMVEDNEDDDEDG
EELLHHHRGSHCSGSGDPAEYNLRSRTVLCGTCGQPADKAAGGAGAQVGGSISSGSSASSVTVTRSFRSV
GGSGGGSFGDNLVTRSYLLGNSSPRSQSSQNCSIM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001002011

ORF Size: 1995 bp

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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_001002011.3, NP_001002011.2

RefSeq Size: 3152 bp

RefSeq ORF: 1998 bp

Locus ID: 16905

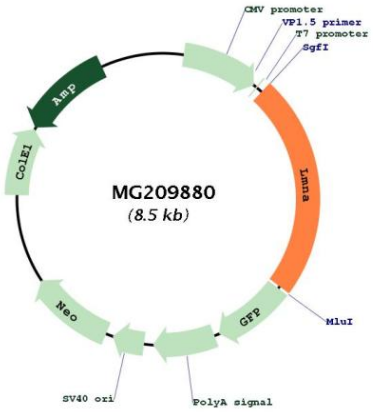
UniProt ID: P48678

Cytogenetics: 3 38.84 cM

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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 MG209880

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US