

Product datasheet for **RG239093**

Lamin A (LMNA) (NM_001282626) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lamin A (LMNA) (NM_001282626) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lamin A
Synonyms:	CDCD1; CDDC; CMD1A; CMT2B1; EMD2; FPL; FPLD; FPLD2; HGPS; IDC; LDP1; LFP; LGMD1B; LMN1; LMNC; LMNL1; MADA; PRO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239093 representing NM_001282626.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGAGACCCCGTCCCAGCGGCGGCCACCCGCAGCGGGGCGCAGGCCAGCTCCACTCCGCTGTCGCCC
ACCCGCATCACCCGGCTGCAGGAGAAGGAGACCTGCAGGAGCTCAATGATCGCTTGGCGGTCTACATC
GACCGTGTGCGCTCGCTGGAAACGGAGAACGCAGGGCTGCGCCTTCGCATCACCGAGTCTGAAGAGGTG
GTCAGCCGCGAGGTGTCCGGCATCAAGGCCGCTACGAGGCCGAGCTCGGGGATGCCCGCAAGACCTT
GACTCAGTAGCCAAGGAGCGCGCCGCTGACGCTGGAGCTGAGCAAAGTGCGTGAGGAGTTAAGGAG
CTGAAAGCGCGCAATACCAAGAAGGAGGGTGACCTGATAGCTGCTCAGGCTCGGCTGAAGGACCTGGAG
GCTCTGCTGAACCTCAAGGAGGCCGCACTGAGCACTGCTCTCAGTGAGAAGCGCACGCTGGAGGGCGAG
CTGCATGATCTGCGGGGCCAGGTGGCAAGCTTGAGGCAGCCCTAGGTGAGGCCAAGAAGCAACTTCAG
GATGAGATGCTGCGGGGCGGTGGATGCTGAGAACAGGCTGCAGACCATGAAGGAGGAACTGGACTTCCAG
AAGAACATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTATGAGACCCGACTGGTGGAGATTGAC
AATGGGAAGCAGCGTGAGTTTGGAGGCCGCTGGCGGATGCGCTGCAGGAACTGCGGGCCAGCATGAG
GACCAGGTGGAGCAGTATAAGAAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCCAGGCAG
TCTGCTGAGAGGAACAGCAACCTGGTGGGGGCTGCCACGAGGAGCTGCAGCAGTCGCGCATCCGCATC
GACAGCCTCTCTGCCAGCTCAGCCAGCTCCAGAAGCAGCTGGCAGCCAAGGAGGCGAAGCTTCGAGAC
CTGGAGGACTCACTGGCCCGTGAGCGGGACACCAGCCGGCGGCTGCTGGCGGAAAAGGAGCGGGAGATG
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GTACCAAAAAGCGCAAACCTGGAGTCCACTGAGAGCCGACAGCTTCTACAGCACGCACGCATCAGC
GGCGCGTGGCCGTGGAGGAGGTGGATGAGGAGGCAAGTTTGTCCGGCTGCGCAACAAGTCCAATGAG
GACCAGTCCATGGCAATTGGCAGATCAAGCGCCAGAATGGAGATGATCCCTTGCTGACTTACCGTTTC
CCACCAAAGTTCACCCTGAAGGCTGGGCAGGTGGTACGATCTGGGCTGCAGGAGCTGGGGCCACCAC
AGCCCCCTACCGACCTGGTGTGGAAGGCACAGAACCTGGGGCTGCGGGAACAGCCTGCGTACGGCT
CTCATCAACTCCACTGGGAAGAAGTGGCCATGCGCAAGCTGGTGCCTCAGTGACTGTGGTTGAGGAC
GACGAGGATGAGGATGGAGATGACTGCTCCATCACCACCAGGCTCCACTGCAGCAGCTCGGGGGAC
CCCCTGAGTACAACCTGCGCTGCGCACCGTGTGTGCGGGACCTGCGGGCAGCCTGCCGACAAGGCA
TCTGCCAGCGGCTCAGGAGCCCAGAGCCCCAGAAGTGCAGCATCATG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG239093
 Blue=ORF Red=Cloning site Green=Tag(s)

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METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVRSLETENAGLRLRITESEEV
VSREVSGIKAAYEAELGDARKTLDSVAKERARLQELSKVREEFKELKARNTKKEGDLIAAQARLKDLE
ALLNSKEAALSTALSEKRTLEGELHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENRLQTMKEELDFQ
KNIYSEELRETKRRHETRLVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQ
SAERNLNLVGAAHEELQQSRIRIDSLSAQLSQLQKQLAAKEAKLRDLEDLARERDTSRLLAEKEREM
AEMRRMQQLDEYQELLDIKLALDMEIHAYRKLLEGEERLRLSPSPTSQRSRGRASSHSQTQGGGS
VTKKRKLESTESRSFSQHARTSGRVAVEEVDEEGKFVRLRNKSNEDQSMGNWQIKRQNGDDPLLTYRF
PPKFTLKAGQVVTIWAAGAGATHSPPTDLVWKAQNTWCGNSLRTALINSTGEEVAMRKLVRVSVTVVED
DEDEDGDDLLHHHHGSHCSSSGDPAEYNLRSRTVLCGTCGQPADKASASGSGAQSPQNCSIM
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001282626

ORF Size: 1842 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).

RefSeq: [NM_001282626.2](#)

RefSeq Size: 3089 bp

RefSeq ORF: 1845 bp

Locus ID: 4000

UniProt ID: [P02545](#)

Cytogenetics: 1q22

Protein Families: Druggable Genome

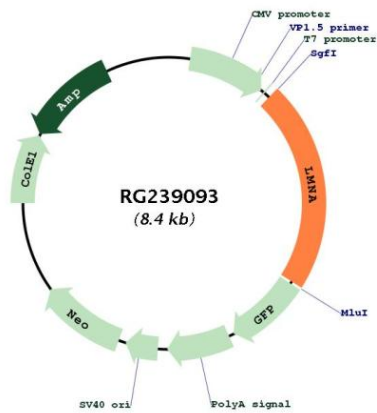
Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

MW: 69.7 kDa

Gene Summary:

The nuclear lamina consists of a two-dimensional matrix of proteins located next to the inner nuclear membrane. The lamin family of proteins make up the matrix and are highly conserved in evolution. During mitosis, the lamina matrix is reversibly disassembled as the lamin proteins are phosphorylated. Lamin proteins are thought to be involved in nuclear stability, chromatin structure and gene expression. Vertebrate lamins consist of two types, A and B. Alternative splicing results in multiple transcript variants. 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. [provided by RefSeq, Apr 2012]

Product images:



Circular map for RG239093