

## Product datasheet for **RC239093**

### 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:	Myc-DDK
Symbol:	LMNA
Synonyms:	CDCD1; CDDC; CMD1A; CMT2B1; EMD2; FPL; FPLD; FPLD2; HGPS; IDC; LDP1; LFP; LGMD1B; LMN1; LMNC; LMNL1; MADA; PRO1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC239093 representing NM\_001282626  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGACCCCGTCCCAGCGGCGGCCACCCGAGCGGGGCGCAGGCCAGCTCCACTCCGCTGTCGCCCCA  
 CCCGCATCACCCGGCTGCAGGAGAAGGAGGACCTGCAGGAGCTCAATGATCGCTTGGCGGCTACATCGA  
 CCGTGTGCGCTCGCTGGAACCGGAGAACGCAGGGCTGCGCCTTCGCATCACCGAGTCTGAAGAGGTGGTC  
 AGCCGCGAGGTGTCCGGCATCAAGGCCGCTACGAGGCCGAGCTCGGGATGCCGCAAGACCCCTTGACT  
 CAGTAGCCAAGGAGCGCGCCCGCTGCAGCTGGAGCTGAGCAAAGTGCCTGAGGAGTTTAAAGGAGCTGAA  
 AGCGCGCAATACCAAGAAGGAGGGTACCTGATAGCTGCTCAGGCTCGGCTGAAGACCTGGAGGCTCTG  
 CTGAACCTCAAGGAGGCCGACTGAGCACTGCTCTCAGTGAAGCGCACGCTGGAGGGCGAGCTGCATG  
 ATCTCGGGGCCAGGTGGCAAGCTTGAGGCAGCCCTAGGTGAGGCCAAGAAGCAACTTCAGGATGAGAT  
 GCTGCGGGGGTGGATGCTGAGAACAGGCTGCAGACCATGAAGGAGGAAGTGGACTTCCAGAAGAATC  
 TACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTCATGAGACCCGACTGGTGGAGATTGACAATGGGAAGC  
 AGCGTGAGTTTGAAGCCGGCTGGCGGATGCGCTGCAGGAAGTGCAGGGCCAGCATGAGGACCAGGTGGA  
 GCAGTATAAGAAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCCAGGCAGTCTGCTGAGAGG  
 AACAGCAACCTGGTGGGGCTGCCACGAGGAGCTGCAGCAGTCGCGCATCCGCATCGACAGCCTCTCTG  
 CCCAGCTCAGCCAGCTCCAGAAGCAGCTGGCAGCAAGGAGGCGAAGCTTCGAGACCTGGAGGACTCACT  
 GGCCCGTGAGCGGGACACCAGCCGGCGGCTGCTGGCGAAAAGGAGCGGGAGATGGCCGAGATGCGGGCA  
 AGGATGCAGCAGCAGCTGGACGAGTACCAGGAGCTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCC  
 ACGCCTACCGCAAGCTCTTGAGGGCGAGGAGGAGGCTACGCCTGTCCCCAGCCCTACCTCGCAGCG  
 CAGCCCGTGGCCGTGCTTCCCTCTACTATCCAGACACAGGGTGGGGGCAGCGTACCAAAAAGCGCAAA  
 CTGGAGTCCACTGAGAGCCGAGCAGCTTCTCACAGCACGCACGCACTAGCGGGCGCTGGCCGTGGAGG  
 AGGTGGATGAGGAGGGCAAGTTTGTCCGGCTGCGCAACAAGTCCAATGAGGACCAGTCCATGGGCAATTG  
 GCAGATCAAGCGCCAGAATGGAGATGATCCCTTGTGACTTACCGGTTCCACCAAAGTTTACCCTGAAG  
 GCTGGGCAAGTGGTACGATCTGGGCTGCAGGAGCTGGGGCCACCCACAGCCCCCTACCGACTGGTGT  
 GGAAGGCACAGAACCTGGGGCTGCGGGAACAGCCTGCGTACGGCTCTCATCACTCCACTGGGGAAGA  
 AGTGGCCATGCGCAAGCTGGTGCCTCAGTACTGTGGTTGAGGACGACGAGGATGAGGATGGAGATGAC  
 CTGCTCCATCACACCACGGCTCCCACTGCAGCAGCTCGGGGACCCCGTGAAGTACAACCTGCGCTCGC  
 GCACCGTCTGTGCGGGACCTGCGGGCAGCCTGCCGACAAGGCATCTGCCAGCGGCTCAGGAGCCAGAG  
 CCCCCAGAAGTGCAGCATCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239093 representing NM\_001282626  
 Red=Cloning site Green=Tags(s)

METPSQRRATRSQAASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVRSLETENAGLRLRITESEEV  
 SREVSIGIKAAEYELGDARKTLDSVAKERARLQLEL SKVREEFKELKARNTKKEGDLIAAQRALKDLEAL  
 LNSKEAALSTALSEKRTLEGELHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENRLQTMKEELDFQKNI  
 YSEELRETKRRHETRLVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQSAER  
 NSNLVGAHEELQQSRIRIDSLSAQLSQLQKQLAAKEAKLRDLEDLRLARERDTSRRLLAEKEREMAEMRA  
 RMQQQLDEYQELLDIKLALDMEIHAYRKLLLEGEEERLRLSPSPTSQRSRGRASSHSQTQGGGSVTKKRK  
 LESTESRSSFSQHARTSGRVAVEEVDEEGKFVRLRNKSNEDQSMGNWQIKRQNGDDPLLTYRFPKFTLK  
 AGQVVTIWAAGAGATHSPPTDLVWKAQNTWGCNSLRTALINSTGEEVAMRKLVRVSVTVVEDEDEDGDD  
 LLHHHGHSHCSSSGDPAEYNLRSRTVLGTCGQPADKASASGSGAQSPQNCSIM

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001282626.2</a>
<b>RefSeq Size:</b>	3089 bp
<b>RefSeq ORF:</b>	1845 bp
<b>Locus ID:</b>	4000
<b>UniProt ID:</b>	<a href="#">P02545</a>
<b>Cytogenetics:</b>	1q22
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)
<b>MW:</b>	69.7 kDa
<b>Gene Summary:</b>	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]