

## Product datasheet for **RC238536**

### Lamin A (LMNA) (NM\_001282624) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lamin A (LMNA) (NM_001282624) 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:**

>RC238536 representing NM\_001282624  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGCCACTCCTGTGCTTGGGGAACCTGGAGGATGCAAGGAAAGACTGGCACTCTGCTGGCACAGC  
 ACCCGCCTGGGGCAGGACACGGGCGAAGCCAGGGTCTCCCTCAATACCAAGAAGGAGGGTGACCTGAT  
 AGCTGCTCAGGCTCGGCTGAAGGACCTGGAGGCTCTGCTGAACTCCAAGGAGGCCCACTGAGCACTGCT  
 CTCAGTGAGAAGCGCACGCTGGAGGGCAGCTGCATGATCTCGGGGCCAGGTGGCCAAGCTTGAGGCAG  
 CCCTAGGTGAGGCCAAGAAGCAACTTCAGGATGAGATGCTGCGGCGGGTGGATGCTGAGAACAGGCTGCA  
 GACCATGAAGGAGGAAGTGGACTTCCAGAAGAACATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGT  
 CATGAGACCCGACTGGTGGAGATTGACAATGGGAAGCAGCGTGAGTTTGGAGCCGGCTGGCGGATGCGC  
 TGCAGAACTGCGGGCCAGCATGAGGACCAGGTGGAGCAGTATAAGAAGGAGCTGGAGAAGACTTATTC  
 TGCCAAGCTGGACAATGCCAGGCAGTCTGCTGAGAGGAACAGCAACCTGGTGGGGCTGCCACGAGGAG  
 CTGCAGCAGTCGCGCATCCGCATCGACAGCCTCTCTGCCAGCTCAGCCAGCTCCAGAAGCAGCTGGCAG  
 CCAAGGAGGCGAAGCTTCGAGACCTGGAGGACTCACTGGCCCGTGAGCGGGACACCAGCCGGCGGCTGCT  
 GGCGGAAAAGGAGCGGGAGATGGCCGAGATGCGGGCAAGGATGCAGCAGCAGCTGGACGAGTACCAGGAG  
 CTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCCACGCCTACCGCAAGCTCTTGAGGGGCGAGGAGG  
 AGAGGCTACGCCTGTCCCCAGCCCTACCTCGCAGCGCAGCCGTGGCCGTGCTTCTCTCACTCATCCCA  
 GACACAGGGTGGGGCAGCGTCACCAAAAAGCGCAAACTGGAGTCCACTGAGAGCCGAGCAGCTTCTCA  
 CAGCACGCACGCACTAGCGGGCGCGTGGCCGTGGAGGAGTGGATGAGGAGGGCAAGTTTGTCCGGCTGC  
 CAACAAGTCCAATGAGGACCAGTCCATGGGCAATTGGCAGATCAAGCGCCAGAATGGAGATGATCCCTT  
 GCTGACTTACCGTTCCCAACAAAGTTACCCTGAAGGCTGGGCAGGTGGTACGATCTGGGCTGCAGGA  
 GCTGGGGCCACCCACAGCCCCCTACCGACCTGGTGTGGAAGGCACAGAACACCTGGGGCTGCGGGAACA  
 GCCTGCGTACGGCTCTCATCAACTCCAAGTGGGGAAGAAGTGGCCATGCGCAAGCTGGTGCCTCAGTGAC  
 TGTGGTTGAGGACGACGAGGATGAGGATGGAGATGACCTGCTCCATCACCACCACGTGAGTGGTAGCCGC  
 CGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238536 representing NM\_001282624  
 Red=Cloning site Green=Tags(s)

MQPLLCLGNLEDARERTGTLAQHPAWGRTRAKPGSPLNTKKEGDLIAAQARLKDLEALLNSKEAALSTA  
 LSEKRTLEGELHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENRLQTMKEELDFQKNIYSEELRETKRR  
 HETRLVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQSAERNSNLVGAHEE  
 LQQSRIRIDSLSAQLSQLQKQLAAKEAKLRDLEDRLARERDTSRLLAEKEREMAEMRARMQQQLDEYQE  
 LLDIKLALDMEIHAYRKLLGEEERLRLSPSPTSQRSRGRASSHSQTQGGGSVTKKRKLESTESRSSFS  
 QHARTSGRVAVEEVDEEGKFVRLRNKSNEDQSMGNWQIKRQNGDDPLLTYRFPKFTLKAGQVVTIWAAG  
 AGATHSPPTDLVWKAQNTWGCNSLRTALINSTGEEVAMRKLVRVSVTVVEDEDEDEDGDDLHHHHVSGSR  
 R

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

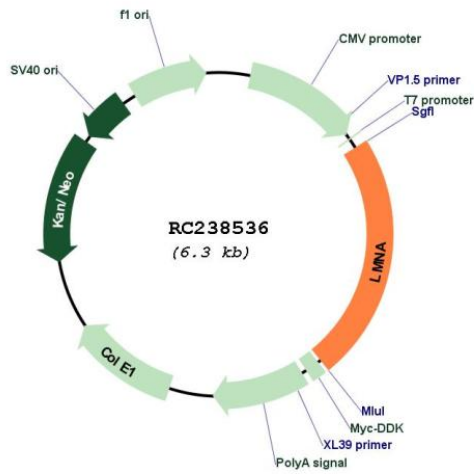
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



<b>ACCN:</b>	NM_001282624
<b>ORF Size:</b>	1473 bp
<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_001282624.2</a>
<b>RefSeq Size:</b>	1759 bp
<b>RefSeq ORF:</b>	1476 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>	56.2 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]