

## Product datasheet for **SC332537**

### Lamin A (LMNA) (NM\_001257374) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lamin A (LMNA) (NM_001257374) Human Untagged Clone
Tag:	Tag Free
Symbol:	Lamin A
Synonyms:	CDCD1; CDDC; CMD1A; CMT2B1; EMD2; FPL; FPLD; FPLD2; HGPS; IDC; LDP1; LFP; LGMD1B; LMN1; LMNC; LMNL1; MADA; PRO1
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC332537 representing NM_001257374. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGGAAGCTCTGAGGGCTGCAATACCAAGAAGGAGGGTGACCTGATAGCTGCTCAGGCTCGGCTGAAG
GACCTGGAGGCTCTGCTGAACTCCAAGGAGGCCACTGAGCACTGCTCTCAGTGAGAAGCGCACGCTG
GAGGGCGAGCTGCATGATCTGCGGGGCCAGGTGGCCAAGCTTGAGGCAGCCCTAGGTGAGGCCAAGAAG
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GACTTCCAGAAGAATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTCATGAGACCCGACTGGTG
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GACAAGGCATCTGCCAGCGGCTCAGGAGCCAGGTGGGCGGACCCATCTCCTTGCTCTTCTGCCTCC
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GTCACCCGCTCCTACCTCTGGCAACTCCAGCCCCGAACCCAGAGCCCCAGAAGTGCAGCATCATA
CAAGAGATGGGAATGAGGTGGGAGGTGGAAGAAGGAGGAGAAGAAAGGTGAGTTGAGCTGCCTTCCCTAG
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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001257374
<b>Insert Size:</b>	1725 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_001257374.2</a>
<b>RefSeq Size:</b>	2074 bp
<b>RefSeq ORF:</b>	1725 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>	63.9 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]

Transcript Variant: This variant (4) represents use of an alternate promoter and uses an alternate 3' exon structure compared to variant 1. The resulting protein (isoform D) has distinct N- and C-termini and is shorter than isoform A. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.