

Product datasheet for **SC321549**

Lamin A (LMNA) (NM_005572) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lamin A (LMNA) (NM_005572) 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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_005572.2
 CAGCCAACCCAGATCCCAGGTCGACAGCGCCCGGCCAGATCCCCACGCCTGCCAGGA
 GCAAGCCGAGAGCCAGCCGGCCGGCGCACTCCGACTCCGAGCAGTCTCTGTCTTCGACC
 CGAGCCCCGCGCCTTTCCGGGACCCCTGCCCGCGGGCAGCGCTGCCAACCTGCCGGCC
 ATGGAGACCCCGTCCCAGCGCGCCACCCGACGCGGGCGCAGGCCAGCTCCACTCCG
 CTGTGCGCCACCCGCATCACCCGGCTGCAGGAGAAGGAGACCTGCAGGAGCTCAATGAT
 CGCTTGGCGGTCTACATCGACCGTGTGCGCTCGCTGAAAACGGAGAACCGAGGGTGC
 CTTGCGCATCACCGAGTCTGAAGAGGTGGTCAGCCGCGAGGTGTCCGGCATCAAGGCCGCC
 TACGAGGCCGAGCTCGGGGATGCCCGCAAGACCCTTGACTCAGTAGCAGGAGCGCGCC
 CGCCTGCAGCTGGAGCTGAGCAAAGTGCCTGAGGAGTTTAAGGAGCTGAAAGCGCGCAAT
 ACCAAGAAGGAGGGTACCTGATAGCTGCTCAGGCTCGGCTGAAGGACCTGGAGGCTCTG
 CTGAACTCCAAGGAGGCCGACTGAGCACTGCTCTCAGTGAGAAGCGCACGCTGGAGGGC
 GAGCTGCATGATCTCGGGGCCAGGTGGCAAGCTTGAGGCAGCCCTAGGTGAGGCCAAG
 AAGCAACTTCAGGATGAGATGCTGCGGCGGGTGGATGCTGAGAACAGGCTGCAGACCATG
 AAGGAGGAACTGGACTTCCAGAAGAACATCTACAGTGAGGAGCTGCGTGAGACCAAGCGC
 CGTCATGAGACCCGACTGGTGGAGATTGACAATGGGAAGCAGCGTGAGTTTGAGAGCCGG
 CTGGCGGATGCGCTGCAGGAACTGCGGGCCAGCATGAGGACCAGGTGGAGCAGTATAAG
 AAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCCAGGCAGTCTGCTGAGAGG
 AACAGCAACCTGGTGGGGCTGCCACGAGGAGCTGCAGCAGTCGCGCATCCGCATCGAC
 AGCCTCTCTGCCAGCTCAGCCAGCTCCAGAAGCAGCTGGCAGCCAAGGAGGCGAAGCTT
 CGAGACCTGGAGGACTACTGGCCCGTGAAGCGGACACCAGCCGGCGGCTGCTGGCGGAA
 AAGGAGCGGGAGATGGCCGAGATGCGGGCAAGGATGCAGCAGCTGGACGAGTACCAG
 GAGCTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCCACGCCTACCGCAAGCTTTG
 GAGGCGAGGAGGAGAGGCTACGCCTGTCCCCAGCCCTACCTCGCAGCGCAGCCGTGGC
 CGTGCTTCTCTACTCATCCCAGACACAGGTTGGGGGAGCGTACCAAAAAGCGCAAA
 CTGGAGTCCACTGAGAGCCGAGCAGCTTCTCACAGCACGCACGCACTAGCGGGCGCGTG
 GCCGTGGAGGAGTGGATGAGGAGGGCAAGTTTGTCCGGCTGCGCAACAAGTCCAATGAG
 GACCAGTCCATGGGCAATTGGCAGATCAAGCGCCAGAATGGAGATGATCCCTTGCTGACT
 TACCGGTTCCCAACAAAGTTCACCCTGAAGGCTGGGCAGGTGGTACGATCTGGGCTGCA
 GGAGCTGGGGCCACCCACAGCCCCCTACCGACCTGGTGTGGAAGGCACAGAACACCTGG
 GGCTGCGGGAACAGCCTGCGTACGGCTCTCATCAACTCCACTGGGGAAGAAGTGGCCATG
 CGCAAGCTGGTGCCTCAGTACTGTGGTTGAGGACGACGAGGATGAGGATGGAGATGAC
 CTGCTCCATCACCAACAGTGTGGTAGCCGCGCTGAGGCCGAGCCTGCACTGGGGCC
 ACCCAGCCAGGCTGGGGGAGCCTCTCCCCAGCCTCCCCGTGCCAAAAATCTTTTCATT
 AAAGAATGTTTTGGAACTTAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_005572
- OTI Disclaimer:** 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:	<ol style="list-style-type: none">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_005572.2 , NP_005563.1
RefSeq Size:	2032 bp
RefSeq ORF:	1719 bp
Locus ID:	4000
UniProt ID:	P02545
Cytogenetics:	1q22
Domains:	IF_tail, filament
Protein Families:	Druggable Genome
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, compared to variant 1. This results in a shorter isoform (C) with a distinct C-terminus when compared to isoform prelamin A. Both variants 2 and 6 encode the same isoform (C).</p>