Recombinant Full Length Human LMNA Protein, C-Flag-tagged

Cat. No. LMNA-25HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human LMNA Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	74 kDa
AA Sequence	METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVRSLETENA GLRLRITESEEVV SREVSGIKAAYEAELGDARKTLDSVAKERARLQLELSKVREEFK ELKARNTKKEGDLIAAQARLKDLEAL LNSKEAALSTALSEKRTLEGELHDLRGQVAK

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	LEAALGEAKKQLQDEMLRRVDAENRLQTMKEELDFQKNI YSEELRETKRRHETRLV EIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQSAER NS NLVGAAHEELQQSRIRIDSLSAQLSQLQKQLAAKEAKLRDLEDSLARERDTSRRLLA EKEREMAEMRA RMQQQLDEYQELLDIKLALDMEIHAYRKLLEGEEERLRLSPSPTS QRSRGRASSHSSQTQGGGSVTKKRK LESTESRSSFSQHARTSGRVAVEEVDEEG KFVRLRNKSNEDQSMGNWQIKRQNGDDPLLTYRFPPKFTLK AGQVVTIWAAGAGA THSPPTDLVWKAQNTWGCGNSLRTALINSTGEEVAMRKLVRSVTVVEDDEDEDGD D LLHHHHGSHCSSSGDPAEYNLRSRTVLCGTCGQPADKASASGSGAQVGGPISSG SSASSVTVTRSYRSVG GSGGGSFGDNLVTRSYLLGNSSPRTQSPQNCSIMTRTRPLEQKLISEEDLAANDILD YKDDDDKV	
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)
Full Length	Full L.

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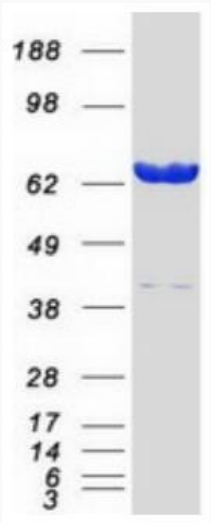
GENE INFORMATION

Gene Name	LMNA lamin A/C [Homo sapiens (human)]
Official Symbol	LMNA
Synonyms	FPL; IDC; LFP; CDDC; EMD2; FPLD; HGPS; LDP1; LMN1; LMNC; MADA; PRO1; CDCD1; CMD1A; FPLD2; LMNL1; CMT2B1; LGMD1B
Gene ID	4000
mRNA Refseq	NM_170707.4
Protein Refseq	NP_733821.1
MIM	150330
UniProt ID	P02545



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	Coomassie blue staining of purified LMNA protein.

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