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LMNA Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02067

Basic Information

Catalog No.
RM02067

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Background

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]

Gene Information

Gene Symbol
LMNA

Species
Human

Gene ID
4000

Swiss Prot
P02545

Synonyms
CDCD1; CDDC; CMD1A; CMT2B1; EMD2; FPL; FPLD; FPLD2; HGPS; IDC; LDP1; LFP; LGMD1B; LMN1; LMNC; LMNL1; MADA; PRO1

Product Information

Description
LMNA Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:85bp deletion in exon2
Allele-2:86bp deletion in exon2
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging
1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. Minimizing freeze-thaw cycles.

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Contact

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Sequencing data

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WT     GAGGGTGACCTGAT**************ACGCTGGAGGGCGA
Mut    GAGGGTGACCTGAT***Deletion***ACGCTGGAGGGCGA
Allele-1：85bp deletion in exon2

WT     GAGGGTGACCTGAT**************CGCTGGAGGGCGAG
Mut    GAGGGTGACCTGAT***Deletion***CGCTGGAGGGCGAG
Allele-2：86bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and LMNA knockout (KO) HeLa cells, using sanger sequencing.