

# DES Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02403

## Basic Information

### Catalog No.

RM02403

### Category

Cell Lysate

### Parental Cell line

HeLa

### Genotype

Knockout

## Gene Information

### Gene Symbol

DES

### Species

Human

### Gene ID

1674

### Swiss Prot

P17661

### Synonyms

CSM1; CSM2; LGMD2R

## Contact

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## Background

This gene encodes a muscle-specific class III intermediate filament. Homopolymers of this protein form a stable intracytoplasmic filamentous network connecting myofibrils to each other and to the plasma membrane. Mutations in this gene are associated with desmin-related myopathy, a familial cardiac and skeletal myopathy (CSM), and with distal myopathies. [provided by RefSeq, Jul 2008]

## Product Information

### Description

DES Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.  
Allele-1:134bp deletion in exon1  
Allele-2:134bp deletion in exon1  
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°C

### Amount

50µL, 2µg/µL.

### Storage

Lysate is stable for 12 months when stored at -20°C. 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.

## Sequencing data

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WT CTCACTGGCCGACG\*\*\*\*\*AACCGGCTCAAGGG  
Mut CTCACTGGCCGACG\*\*\*Deletion\*\*\*AACCGGCTCAAGGG  
Allele-1: 134bp deletion in exon1  
WT CTCACTGGCCGACG\*\*\*\*\*AACCGGCTCAAGGG  
Mut CTCACTGGCCGACG\*\*\*Deletion\*\*\*AACCGGCTCAAGGG  
Allele-2: 134bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and DES knockout (KO) HeLa cells, using sanger sequencing.