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DES Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02415

Basic Information

Catalog No.
RM02415

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
DES

Species
Human

Gene ID
1674

Swiss Prot
P17661

Synonyms
CSM1; CSM2; LGMD2R

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

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 knockout 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 line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial

Storage
Store at -20℃

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

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