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NDUFB11 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02689

Basic Information

Catalog No.
RM02689

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
NDUFB11

Species
Human

Gene ID
54539

Swiss Prot
Q9NX14

Synonyms
ESSS; Np15; P17.3; NP17.3; CI-ESSS; MC1DN30; NDUFB11

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Background

The protein encoded by this gene is a subunit of the multisubunit NADH:ubiquinone oxidoreductase (complex I). Mammalian complex I is located at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to ubiquinone. Mutations in the human gene are associated with linear skin defects with multiple congenital anomalies 3 and mitochondrial complex I deficiency.

Product Information

Description
NDUFB11 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:86bp deletion in exon1
Allele-2:85bp 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
Stored in liquid nitrogen for a long time less than -130℃. Minimizing freeze-thaw cycles.

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    AGCGCTCGCCGTCT**********CTGTGGCGGGAAAG
Mut   AGCGCTCGCCGTCT***Deletion***CTGTGGCGGGAAAG
Allele-1:    86bp deletion in exon1

WT    GCGCTCGCCGTCTT**********CTGTGGCGGGAAAG
Mut   GCGCTCGCCGTCTT***Deletion***CTGTGGCGGGAAAG
Allele-2:    85bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and NDUFB11 knockout (KO) HeLa cells, using sanger sequencing.