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RMND1 Knockout NIH/3T3 Cell Line, Homozygous

Catalog No.: RM50129

Basic Information

Catalog No.
RM50129

Category
Cell Line

Parental Cell line
NIH/3T3

Genotype
Knockout

Background

Predicted to be involved in positive regulation of mitochondrial translation. Predicted to act upstream of or within translation. Located in mitochondrion. Human ortholog(s) of this gene implicated in combined oxidative phosphorylation deficiency 11. Orthologous to human RMND1 (required for meiotic nuclear division 1 homolog).

Gene Information

Gene Symbol
RMND1

Species
Mouse

Gene ID
66084

Swiss Prot
Q8CI78

Synonyms
0610042C05Rik

Contact

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Product Information

Description
RMND1 Knockout cell line is engineered from NIH/3T3 cell line with Gene-Editing Technology.
Allele-1:200bp insertion and 198bp deletion in exon2
Allele-2:exon2 was deleted
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    GAGCCCTTCGCT*****************GATGACGTTTCT
Mut   GAGCCCTTCGCT*insertion*deletion*GATGACGTTTCT
Allele-1:    200bp insertion and 198bp deletion in exon2

WT    GCTTGAGCCCTTCG*************ATGACGTTTCTGGT
Mut   GCTTGAGCCCTTCG***Deletion***ATGACGTTTCTGGT
Allele-2:    exon2 was deleted
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Genome sequence analysis of PCR products from parental (WT) and RMND1 knockout (KO) NIH/3T3 cells, using sanger sequencing.

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