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SLC25A4 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02121

Basic Information

Catalog No.
RM02121

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
SLC25A4

Species
Human

Gene ID
291

Swiss Prot
P12235

Synonyms
AAC1; ANT; ANT 1; ANT1; MTDPS12; MTDPS12A; PEO2; PEO3; PEOA2; T1

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Background

This gene is a member of the mitochondrial carrier subfamily of solute carrier protein genes. The product of this gene functions as a gated pore that translocates ADP from the cytoplasm into the mitochondrial matrix and ATP from the mitochondrial matrix into the cytoplasm. The protein forms a homodimer embedded in the inner mitochondria membrane. Mutations in this gene have been shown to result in autosomal dominant progressive external opthalmoplegia and familial hypertrophic cardiomyopathy. [provided by RefSeq, Jun 2013]

Product Information

Description
SLC25A4 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:124bp deletion in exon2
Allele-2:124bp 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 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

WT TAACCTGGCCAACG**********CGGTGGGGCCGCTG
Mut TAACCTGGCCAACG***Deletion***CGGTGGGGCCGCTG
Allele-1: 124bp deletion in exon2

WT TAACCTGGCCAACG**********CGGTGGGGCCGCTG
Mut TAACCTGGCCAACG***Deletion***CGGTGGGGCCGCTG
Allele-2: 124bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and SLC25A4 knockout (KO) 293T cells, using sanger sequencing.

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