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CYCS Knockout 293T Cell Line, Homozygous

Catalog No.: RM01938

Basic Information

Catalog No.
RM01938

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a small heme protein that functions as a central component of the electron transport chain in mitochondria. The encoded protein associates with the inner membrane of the mitochondrion where it accepts electrons from cytochrome b and transfers them to the cytochrome oxidase complex. This protein is also involved in initiation of apoptosis. Mutations in this gene are associated with autosomal dominant nonsyndromic thrombocytopenia. Numerous processed pseudogenes of this gene are found throughout the human genome.[provided by RefSeq, Jul 2010]

Gene Information

Gene Symbol
CYCS

Species
Human

Gene ID
54205

Swiss Prot
P99999

Synonyms
CYC; HCS; THC4

Product Information

Description
CYCS Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:exon1 was deleted
Allele-2:exon1 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.

Contact

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Sequencing data

WT TAAGTGGCTAGAGTGGTCATTCATTTACACTGTATTTG
Mut TAAGTGGCTAGAGTGGTCATTCATTTACACTGTATTTG
Allele-1: WT

WT TGGATTGGTAATTA**********CTATCAGGAGTGTG
Mut TGGATTGGTAATTA***Deletion***CTATCAGGAGTGTG
Allele-2: exon1 was deleted

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

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