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CTNNA1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01913

Basic Information

Catalog No.
RM01913

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
CTNNA1

Species
Human

Gene ID
1495

Swiss Prot
P35221

Synonyms
CAP102; MDPT2

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Background

This gene encodes a member of the catenin family of proteins that play an important role in cell adhesion process by connecting cadherins located on the plasma membrane to the actin filaments inside the cell. The encoded mechanosensing protein contains three vinculin homology domains and undergoes conformational changes in response to cytoskeletal tension, resulting in the reconfiguration of cadherin-actin filament connections. Certain mutations in this gene cause butterfly-shaped pigment dystrophy. [provided by RefSeq, May 2016]

Product Information

Description
CTNNA1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:85bp deletion in exon2
Allele-2:85bp 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 TTTCCTGGAAACCA**********TGCCAACAAATTGA
Mut TTTCCTGGAAACCA***Deletion***TGCCAACAAATTGA
Allele-1: 85bp deletion in exon2

WT TTTCCTGGAAACCA**********TGCCAACAAATTGA
Mut TTTCCTGGAAACCA***Deletion***TGCCAACAAATTGA
Allele-2: 85bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and CTNNA1 knockout (KO) 293T cells, using sanger sequencing.