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# CD63 Knockout 293T Cell Line, Homozygous

**Catalog No.: RM02150**

## Basic Information

**Catalog No.**
RM02150

**Category**
Cell Line

**Parental Cell line**
293T

**Genotype**
Knockout

## Gene Information

**Gene Symbol**
CD63

**Species**
Human

**Gene ID**
967

**Swiss Prot**
P08962

**Synonyms**
LAMP-3; ME491; MLA1; OMA81H; TSPAN30

## Contact


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## Background

The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. The encoded protein is a cell surface glycoprotein that is known to complex with integrins. It may function as a blood platelet activation marker. Deficiency of this protein is associated with Hermansky-Pudlak syndrome. Also this gene has been associated with tumor progression. Alternative splicing results in multiple transcript variants encoding different protein isoforms. [provided by RefSeq, Apr 2012]

## Product Information

**Description**
CD63 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:77bp deletion in exon3
Allele-2:77bp deletion in exon3
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**
1~5x$10^6$ 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 ATCCCTTCCATGTC**********ATAAGGAGGTAGGG
Mut ATCCCTTCCATGTC***Deletion***ATAAGGAGGTAGGG
Allele-1: 77bp deletion in exon3

WT ATCCCTTCCATGTC**********ATAAGGAGGTAGGG
Mut ATCCCTTCCATGTC***Deletion***ATAAGGAGGTAGGG
Allele-2: 77bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and CD63 knockout (KO) 293T cells, using sanger sequencing.



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