

# LRP6 Knockdown 293T Cell Line, Heterozygous

**Catalog No.:** RM01948

## Basic Information

**Catalog No.**

RM01948

**Category**

Cell Line

**Parental Cell line**

293T

**Genotype**

Knockdown

## Gene Information

**Gene Symbol**

LRP6

**Species**

Human

**Gene ID**

4040

**Swiss Prot**

O75581

**Synonyms**

ADCAD2; STHAG7

## Contact

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## Background

This gene encodes a member of the low density lipoprotein (LDL) receptor gene family. LDL receptors are transmembrane cell surface proteins involved in receptor-mediated endocytosis of lipoprotein and protein ligands. The protein encoded by this gene functions as a receptor or, with Frizzled, a co-receptor for Wnt and thereby transmits the canonical Wnt/beta-catenin signaling cascade. Through its interaction with the Wnt/beta-catenin signaling cascade this gene plays a role in the regulation of cell differentiation, proliferation, and migration and the development of many cancer types. This protein undergoes gamma-secretase dependent RIP- (regulated intramembrane proteolysis) processing but the precise locations of the cleavage sites have not been determined.[provided by RefSeq, Dec 2009]

## Product Information

**Description**

LRP6 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:201bp deletion in exon2

Allele-2:199bp 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<sup>6</sup> cells/vial

**Storage**

Stored in liquid nitrogen for a long time less than -130°C. Minimizing freeze-thaw cycles.

**Protocol**

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37°C with 5% CO<sub>2</sub> condition.

1. Thaw the vial in 37°C 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°C incubator with 5% CO<sub>2</sub>.
7. A subcultivation ratio of 1:2-1:4 is recommended.

## Sequencing data

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WT AGACGGGACTTGCG\*\*\*\*\*GCTGGCATGTGATT  
Mut AGACGGGACTTGCG\*\*\*Deletion\*\*\*GCTGGCATGTGATT  
Allele-1: 201bp deletion in exon2

WT CAGACGGGACTTGCG\*\*\*\*\*TGGGCTGGCATGTG  
Mut CAGACGGGACTTGCG\*\*\*Deletion\*\*\*TGGGCTGGCATGTG  
Allele-2: 199bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and LRP6 Knockdown (KD) 293T cells, using sanger sequencing.