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# PARK2 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01813

#### **Basic Information**

#### Catalog No.

RM01813

#### Category

Cell Line

#### **Parental Cell line**

293T

#### Genotype

Knockout

# **Background**

The precise function of this gene is unknown; however, the encoded protein is a component of a multiprotein E3 ubiquitin ligase complex that mediates the targeting of substrate proteins for proteasomal degradation. Mutations in this gene are known to cause Parkinson disease and autosomal recessive juvenile Parkinson disease. Alternative splicing of this gene produces multiple transcript variants encoding distinct isoforms. Additional splice variants of this gene have been described but currently lack transcript support.

#### **Gene Information**

#### **Gene Symbol**

PRKN

#### **Species**

Human

# Gene ID

5071

#### **Swiss Prot**

060260

#### **Synonyms**

AR-JP; LPRS2; PARK2; PDJ

#### **Contact**

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### **Product Information**

#### Description

PARK2 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology. Allele-1:89bp deletion in exon2

Allele-2:89bp 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**

**Amount** 

Dry ice

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  $37^{\circ}$ C with 5% CO<sub>2</sub> condition.

- 1. Thaw the vial in  $37^{\circ}\text{C}$  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

ATGGTTTCCCAGTG\*\*\*\*\*\*\*\*\*\*\*CGCAGGGAAGGAGC Mut ATGGTTTCCCAGTG\*\*\*Deletion\*\*\*CGCAGGGAAGGAGC Allele-1: 89bp deletion in exon2

WT ATGGTTTCCCAGTG\*CGCAGGGAAGGAGC
Mut ATGGTTTCCCAGTG\*\*\*Deletion\*\*\*CGCAGGGAAGGAGC
Allele-2: 89bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and PARK2 knockout (KO) 293T cells, using sanger sequencing.