

# PCCB Knockout 293T Cell Line, Homozygous

Catalog No.: RM02659

## Basic Information

**Catalog No.**

RM02659

**Category**

Cell Line

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

PCCB

**Species**

Human

**Gene ID**

5096

**Swiss Prot**

P05166

## Contact

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## Background

The protein encoded by this gene is a subunit of the propionyl-CoA carboxylase (PCC) enzyme, which is involved in the catabolism of propionyl-CoA. PCC is a mitochondrial enzyme that probably acts as a dodecamer of six alpha subunits and six beta subunits. This gene encodes the beta subunit of PCC. Defects in this gene are a cause of propionic acidemia type II (PA-2). Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2010]

## Product Information

**Description**

PCCB Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:139bp deletion in exon1

Allele-2:139bp deletion in exon1

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 GCGGCATTACGGG\*\*\*\*\*CCGTATTGACGCG  
Mut GCGGCATTACGGG\*\*\*Deletion\*\*\*CCGTATTGACGCG  
Allele-1: 139bp deletion in exon1

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

WT GCGGCATTACGGG\*\*\*\*\*CCGTATTGACGCG  
Mut GCGGCATTACGGG\*\*\*Deletion\*\*\*CCGTATTGACGCG  
Allele-2: 139bp deletion in exon1