

# PARK7 Knockout HeLa Cell Lysate, Homozygous

**Catalog No.:** RM02794

## Basic Information

**Catalog No.**

RM02794

**Category**

Cell Lysate

**Parental Cell line**

HeLa

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

PARK7

**Species**

Human

**Gene ID**

11315

**Swiss Prot**

Q99497

**Synonyms**

DJ1; DJ-1; GATD2; HEL-S-67p; K7

## Contact

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## Background

The product of this gene belongs to the peptidase C56 family of proteins. It acts as a positive regulator of androgen receptor-dependent transcription. It may also function as a redox-sensitive chaperone, as a sensor for oxidative stress, and it apparently protects neurons against oxidative stress and cell death. Defects in this gene are the cause of autosomal recessive early-onset Parkinson disease 7. Two transcript variants encoding the same protein have been identified for this gene.

## Product Information

**Description**

PARK7 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:exon1 was deleted

Allele-2:exon1 was deleted

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 Lysate and 1 vial knockout cell Lysate

**Shipping Conditions**

4°C

**Amount**

50μL, 2μg/μL.

**Storage**

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

**Protocol**

To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

## Sequencing data

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WT TATACAAATCAACG\*\*\*\*\*ATTTTtagccattc  
Mut TATACAAATCAACG\*\*\*Deletion\*\*\*ATTTTtagccattc  
Allele-1: exon1 was deleted

WT ATGAAAACCGTTTC\*\*\*\*\*TCGATTTTtagcca  
Mut ATGAAAACCGTTTC\*\*\*Deletion\*\*\*TCGATTTTtagcca  
Allele-2: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and PARK7 knockout (KO) HeLa cells, using sanger sequencing.