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PARK7 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02667

Basic Information

Catalog No.
RM02667

Category
Cell Line

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

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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 line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial.

Storage
Stored in liquid nitrogen for a long time less than -130℃. 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℃ 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

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