

# LAMP2 Knockout HeLa Cell Line, Homozygous

**Catalog No.:** RM02101

## Basic Information

**Catalog No.**

RM02101

**Category**

Cell Line

**Parental Cell line**

HeLa

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

LAMP2

**Species**

Human

**Gene ID**

3920

**Swiss Prot**

P13473

**Synonyms**

CD107b; LAMP-2; LAMPB; LGP-96; LGP110

## Contact

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## Background

The protein encoded by this gene is a member of a family of membrane glycoproteins. This glycoprotein provides selectins with carbohydrate ligands. It may play a role in tumor cell metastasis. It may also function in the protection, maintenance, and adhesion of the lysosome. Alternative splicing of this gene results in multiple transcript variants encoding distinct proteins. [provided by RefSeq, Jul 2008]

## Product Information

**Description**

LAMP2 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:77bp deletion in exon3

Allele-2:77bp deletion in exon3

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    AGTGCA GTTCGGAC\*\*\*\*\*ACTGGTGATAACAC  
Mut    AGTGCA GTTCGGAC\*\*\*Deletion\*\*\*ACTGGTGATAACAC  
Allele-1: 77bp deletion in exon3

WT    AGTGCA GTTCGGAC\*\*\*\*\*ACTGGTGATAACAC  
Mut    AGTGCA GTTCGGAC\*\*\*Deletion\*\*\*ACTGGTGATAACAC  
Allele-2: 77bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and LAMP2 knockout (KO) HeLa cells, using sanger sequencing.