Leader in Biomolecular Solutions for Life Science

www.abclonal.com

SLC38A2 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02679

Basic Information

Catalog No.
RM02679

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

Enables neutral amino acid:sodium symporter activity. Involved in several processes, including amino acid transport; cellular response to arsenite(3-); and positive regulation of RNA splicing. Located in cytoplasm and plasma membrane.

Gene Information

Gene Symbol
SLC38A2

Species
Human

Gene ID
54407

Swiss Prot
Q96QD8

Synonyms
ATA2; SAT2; SNAT2; PRO1068

Product Information

Description
SLC38A2 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:79bp deletion in exon4
Allele-2:79bp deletion in exon4
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
Store at -20℃

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.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Sequencing data

```
WT    TTTTCCTCCAGCTA**********GTAAGGTTACTCAT
Mut   TTTTCCTCCAGCTA***Deletion***GTAAGGTTACTCAT
Allele-1:   79bp deletion in exon4

WT    TTTTCCTCCAGCTA**********GTAAGGTTACTCAT
Mut   TTTTCCTCCAGCTA***Deletion***GTAAGGTTACTCAT
Allele-2:   79bp deletion in exon4
```

Genome sequence analysis of PCR products from parental (WT) and SLC38A2 knockout (KO) HeLa cells, using sanger sequencing.