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SLC38A8 Knockout 293T Cell Line, Homozygous

Catalog No.: RM50062

Basic Information

Catalog No.
RM50062

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
SLC38A8

Species
Human

Gene ID
146167

Swiss Prot
A6NNN8

Synonyms
FVH2; FHASD; SNAT8

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Background

This gene encodes a putative sodium-dependent amino-acid/proton antiporter. The protein has eleven transmembrane domains, an extracellular N-terminus and an intracellular C-terminal tail. The protein is a member of the SLC38 sodium-coupled neutral amino acid transporter family of proteins. Mutations in this gene result in foveal hypoplasia with or without optic nerve misrouting and/or anterior segment dysgenesis.

Product Information

Description
SLC38A8 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:158bp deletion in exon1
Allele-2:158bp 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
1~5x10^6 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.

Sequencing data

WT GTCTTCCTGAT**********TCGGGGACCAGC
Mut GTCTTCCTGAT**Deletion(158bp)**TCGGGGACCAGC
Allele-1: 158 bp deletion in exon1

WT GTCTTCCTGAT**********TCGGGGACCAGC
Mut GTCTTCCTGAT**Deletion(158bp)**TCGGGGACCAGC
Allele-2: 158 bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and SLC38A8 knockout (KO) 293T cells, using sanger sequencing.