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VIL1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02429

Basic Information

Catalog No.
RM02429

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
VIL1

Species
Human

Gene ID
7429

Swiss Prot
P09327

Synonyms
D2S1471; VIL

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Background

This gene encodes a member of a family of calcium-regulated actin-binding proteins. This protein represents a dominant part of the brush border cytoskeleton which functions in the capping, severing, and bundling of actin filaments. Two mRNAs of 2.7 kb and 3.5 kb have been observed; they result from utilization of alternate poly-adenylation signals present in the terminal exon. [provided by RefSeq, Jul 2008]

Product Information

Description
VIL1 Knockout 293T Cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:131bp deletion in exon3
Allele-2:131bp 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
1~5x10^6 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     TATGACATCCACTA**************GAGGCTACTTCAAG
Mut    TATGACATCCACTA***Deletion***GAGGCTACTTCAAG
Allele-1: 131bp deletion  in exon3

WT     TATGACATCCACTA**************GAGGCTACTTCAAG
Mut    TATGACATCCACTA***Deletion***GAGGCTACTTCAAG
Allele-2: 131bp deletion  in exon3
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Genome sequence analysis of PCR products from parental (WT) and VIL1 knockout (KO) 293T cells, using sanger sequencing.