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SETD2 Knockdown 293T Cell Line, Heterozygous

Catalog No.: RM02147

Basic Information

Catalog No.
RM02147

Category
Cell Line

Parental Cell line
293T

Genotype
Knockdown

Background

Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein belonging to a class of huntingtin interacting proteins characterized by WW motifs. This protein is a histone methyltransferase that is specific for lysine-36 of histone H3, and methylation of this residue is associated with active chromatin. This protein also contains a novel transcriptional activation domain and has been found associated with hyperphosphorylated RNA polymerase II. [provided by RefSeq, Aug 2008]

Gene Information

Gene Symbol
SETD2

Species
Human

Gene ID
29072

Swiss Prot
Q9BYW2

Synonyms
HBP231; HIF-1; HIP-1; HSPC069; HYPB; KMT3A; LLS; SET2; p231HBP

Product Information

Description
SETD2 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:203bp deletion in exon3
Allele-2:207bp 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
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 CCAGCTGTACCTCTT**********GATAGCAGAATCAA
Mut CCAGCTGTACCTCTT***Deletion***GATAGCAGAATCAA
Allele-1: 203bp deletion in exon3

WT CCAGCTGTACCTCT**********AGCAGAATCAACAA
Mut CCAGCTGTACCTGG***Deletion***AGCAGAATCAACAA
Allele-2: 207bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and SETD2 Knockdown (KD) 293T cells, using sanger sequencing.

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