

# MSH6 Knockout 293T Cell Lysate, Homozygous

**Catalog No.:** RM02466

## Basic Information

**Catalog No.**

RM02466

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

MSH6

**Species**

Human

**Gene ID**

2956

**Swiss Prot**

P52701

**Synonyms**

GTBP; GTMBP; HNPCC5; HSAP; p160

## Contact

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## Background

This gene encodes a member of the DNA mismatch repair MutS family. In *E. coli*, the MutS protein helps in the recognition of mismatched nucleotides prior to their repair. A highly conserved region of approximately 150 aa, called the Walker-A adenine nucleotide binding motif, exists in MutS homologs. The encoded protein heterodimerizes with MSH2 to form a mismatch recognition complex that functions as a bidirectional molecular switch that exchanges ADP and ATP as DNA mismatches are bound and dissociated. Mutations in this gene may be associated with hereditary nonpolyposis colon cancer, colorectal cancer, and endometrial cancer. Transcripts variants encoding different isoforms have been described. [provided by RefSeq, Jul 2013]

## Product Information

**Description**

MSH6 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:106bp deletion in exon4

Allele-2:106bp 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 Lysate and 1 vial knockout cell Lysate

**Shipping Conditions**

4°C

**Amount**

50µL, 2µg/µL.

**Storage**

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

**Protocol**

To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

## Sequencing data

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WT TCCCAAGCCACGT\*\*\*\*\*CACCCGATTTGA  
Mut TCCCAAGCCACGT\*\*\*Deletion\*\*\*CACCCGATTTGA  
Allele-1: 106bp deletion in exon4  
WT TCCCAAGCCACGT\*\*\*\*\*CACCCGATTTGA  
Mut TCCCAAGCCACGT\*\*\*Deletion\*\*\*CACCCGATTTGA  
Allele-2: 106bp deletion in exon4

Genome sequence analysis of PCR products from parental (WT) and MSH6 knockout (KO) 293T cells, using sanger sequencing.