

# SOX2 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02022

## Basic Information

**Catalog No.**

RM02022

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

SOX2

**Species**

Human

**Gene ID**

6657


**Swiss Prot**

P48431

**Synonyms**

ANOP3; MCOPS3

## Contact

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## Background

This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2OT). [provided by RefSeq, Jul 2008]

## Product Information

**Description**

SOX2 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:14bp deletion in exon1

Allele-2:14bp 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 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 GCTGGCCCCGGCG\*\*\*\*\*AGCGGGTCGGGGT  
Mut GCTGGCCCCGGCG\*\*\*Deletion\*\*\*AGCGGGTCGGGGT  
Allele-1: 14bp deletion in exon1  
WT GCTGGCCCCGGCG\*\*\*\*\*AGCGGGTCGGGGT  
Mut GCTGGCCCCGGCG\*\*\*Deletion\*\*\*AGCGGGTCGGGGT  
Allele-2: 14bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and SOX2 knockout (KO) 293T cells, using sanger sequencing.