

# GHRH Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02275

## Basic Information

**Catalog No.**

RM02275

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

GHRH

**Species**

Human

**Gene ID**

2691


**Swiss Prot**

P01286


**Synonyms**

GHRF; GRF; INN

## Contact

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## Background

This gene encodes a member of the glucagon family of proteins. The encoded preproprotein is produced in the hypothalamus and cleaved to generate the mature factor, known as somatoliberin, which acts to stimulate growth hormone release from the pituitary gland. Variant receptors for somatoliberin have been found in several types of tumors, and antagonists of these receptors can inhibit the growth of the tumors. Defects in this gene are a cause of dwarfism, while hypersecretion of the encoded protein is a cause of gigantism. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

## Product Information

**Description**

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

Allele-1:59bp deletion in exon2

Allele-2:65bp deletion in exon2

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 TGCATCTCACCA\*\*\*\*\*AGCAGGCAGCAGGG  
Mut TGCATCTCACCA\*\*\*Deletion\*\*\*AGCAGGCAGCAGGG  
Allele-1: 59bp deletion in exon2  
WT TGCAGATGCCATCT\*\*\*\*\*AGCAGGCAGCAGGG  
Mut TGCAGATGCCATCT\*\*\*Deletion\*\*\*AGCAGGCAGCAGGG  
Allele-2: 65bp deletion in exon2

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