

# PGF Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50158

## Basic Information

### Catalog No.

RM50158

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

PGF

### Species

Human

### Gene ID

5228

### Swiss Prot

P49763

### Synonyms

PGFL; PIGF; PLGF; PIGF-2; D12S1900;  
SHGC-10760

## Contact

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## Background

Enables growth factor activity. Involved in positive regulation of cell population proliferation. Predicted to be located in extracellular region. Predicted to be active in extracellular space. Implicated in several diseases, including brain ischemia; diabetic neuropathy; glioblastoma; myocardial infarction; and pancreatic endocrine carcinoma. Biomarker of several diseases, including artery disease (multiple); autoimmune disease of musculoskeletal system (multiple); epilepsy (multiple); limited scleroderma; and pancreatic endocrine carcinoma.

## Product Information

### Description

PGF Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:exon2 was deleted

Allele-2:exon2 was deleted

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 TTTTCTGCCATAG\*\*\*Deletion\*\*\*AGCGTGGGTGCAGG  
Mut TTTTCTGCCATAG\*\*\*Deletion\*\*\*AGCGTGGGTGCAGG  
Allele-1: exon2 was deleted

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

WT TTTTCTGCCATAG\*\*\*Deletion\*\*\*AGCGTGGGTGCAGG  
Mut TTTTCTGCCATAG\*\*\*Deletion\*\*\*AGCGTGGGTGCAGG  
Allele-2: exon2 was deleted