

GARS Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM02261

Basic Information

Catalog No.

RM02261

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockdown

Gene Information

Gene Symbol

GARS

Species

Human

Gene ID

2617

Swiss Prot

P41250

Synonyms

CMT2D; DSMAV; GlyRS; HMN5; SMAD1

Contact

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Background

This gene encodes glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. The encoded enzyme is an (alpha)₂ dimer which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]

Product Information

Description

GARS Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:96bp deletion in exon1

Allele-2:97bp 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

WT CTGCCGCCCGGCT*****GGCGCGGGGGCTGA
Mut CTGCCGCCCGGCT***Deletion***GGCGCGGGGGCTGA
Allele-1: 96bp deletion in exon1
WT TGCCGCCCGGCTC*****GGCGCGGGGGCTGA
Mut TGCCGCCCGGCTC***Deletion***GGCGCGGGGGCTGA
Allele-2: 97bp deletion in exon1

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