# **Human MARS1 Knockdown Cell Line (WB-Validated)**



**Catalog #: C65212** 

### **Aliases**

MARS1; Methionyl-TRNA Synthetase 1; MetRS; Methionine--TRNA Ligase, Cytoplasmic; SPG70; CMT2U; MARS; Methionyl-TRNA Synthetase; EC 6.1.1.10; Methionine TRNA Ligase 1, Cytoplasmic; Cytosolic Methionyl-TRNA Synthetase; ILFS2; MTRNS; ILLD; TTD9; MRS

## **Background**

Gene Name: MARS1 NCBI Gene Entry: 4141

## **Storage**

Store at liquid nitrogen for 1 year.

## **Kit Components**

- 1. Human MARS1 Knockdown Cell Line (Wb-Validated)
- 2. Wild-type cell line

### **Parental Cell Line**

Human cell line supplied by the client

### Validation Methods

RT-qPCR, Western blotting (WB)

## **Shipping**

Shipped on Dry Ice.

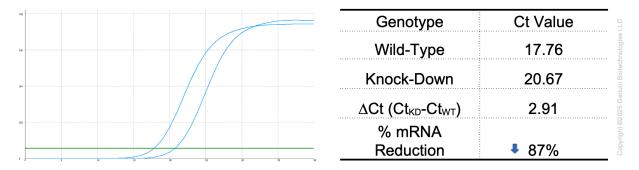
## **Instructions For Use**

This knockdown cell line should be paired with wild-type cell line for use.

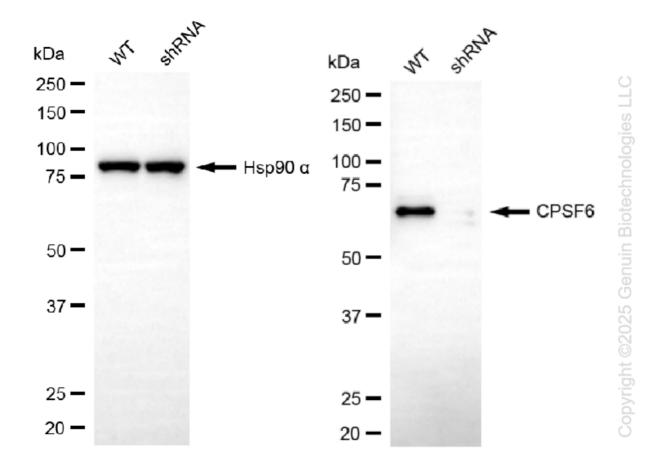
**Note:** This product is for research use only.

#### Validation Data

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RT-qPCR analysis. HeLa cells were infected with MARS1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta$ Ct (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula:  $(1-1/2\Delta$ Ct) x 100%.



Western blotting analysis.MARS1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90  $\alpha$  served as a loading control. The blots were incubated with primary antibodies against MARS1 and Hsp90  $\alpha$ , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed

#### PAGE 3

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using NaQ<sup>TM</sup> ECL Substrate Kit.