

# Human CLPP Knockdown Cell Line (WB-Validated)



**Catalog #: C1466**

## Aliases

CLPP; Caseinolytic Mitochondrial Matrix Peptidase Proteolytic Subunit; ATP-Dependent Clp Protease Proteolytic Subunit, Mitochondrial; Endopeptidase Clp; EC 3.4.21.92; ClpP (Caseinolytic Protease, ATP-Dependent, Proteolytic Subunit, E. Coli) Homolog; ClpP Caseinolytic Peptidase, ATP-Dependent, Proteolytic Subunit Homolog (E. Coli); ClpP Caseinolytic Protease, ATP-Dependent, Proteolytic Subunit Homolog (E. Coli); ClpP Caseinolytic Peptidase, ATP-Dependent, Proteolytic Subunit Homolog; ClpP Caseinolytic Protease, ATP-Dependent, Proteolytic Subunit Homolog; Putative ATP-Dependent Clp Protease Proteolytic Subunit, Mitochondrial; ATP-Dependent Protease ClpAP (E. Coli), Proteolytic Subunit, Human; ClpP Caseinolytic Peptidase ATP-Dependent, Proteolytic Subunit; ATP-Dependent; Protease ClpAP, Proteolytic Subunit, Human; DFNB81; PRLTS3

## Background

Gene Name: CLPP

NCBI Gene Entry: [8192](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human CLPP 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.

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### SUPPORT

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### ORDERS

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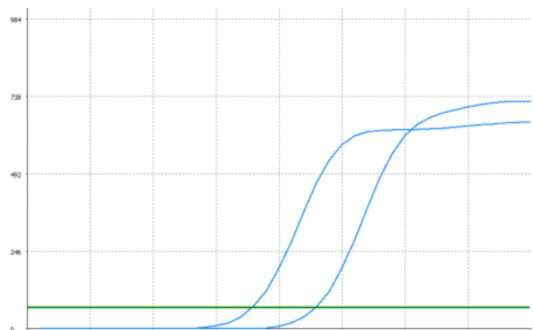
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**Note:** This product is for research use only.

## Validation Data



Genotype	Ct Value
Wild-Type	17.23
Knock-Down	22.44
$\Delta Ct (Ct_{KD} - Ct_{WT})$	5.21
% mRNA Reduction	↓ 97%

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

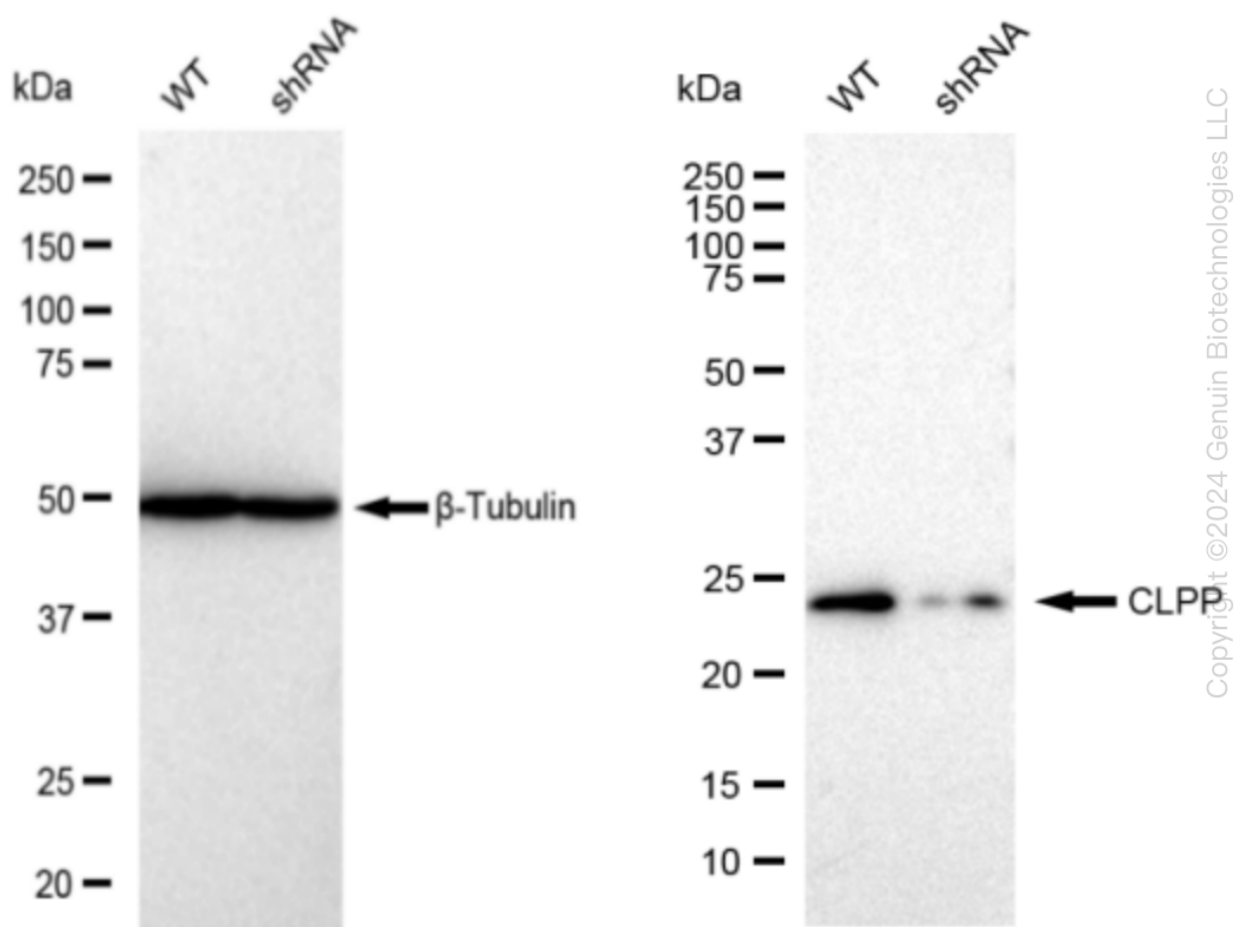
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Western blotting analysis. CLPP protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting.  $\beta$ -Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#68466, 1:5,000) against CLPP and  $\beta$ -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).