

Human CLPX Knockdown Cell Line (WB-Validated)



Catalog #: C61468

Aliases

CLPX; Caseinolytic Mitochondrial Matrix Peptidase Chaperone Subunit X; ATP-Dependent Clp Protease ATP-Binding Subunit ClpX-Like, Mitochondrial; ClpX (Caseinolytic Protease X, E. Coli) Homolog ; ClpX Caseinolytic Protease X Homolog (E. Coli); Energy-Dependent Regulator Of Proteolysis; ClpX Caseinolytic Peptidase X Homolog; ClpX Caseinolytic Protease X Homolog; EPP2

Background

Gene Name: CLPX

NCBI Gene Entry: [10845](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CLPX 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

SUPPORT

SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

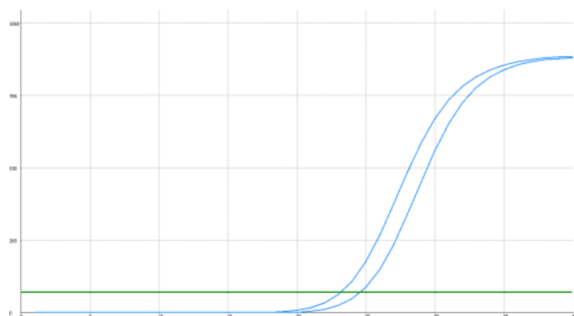
ORDERS

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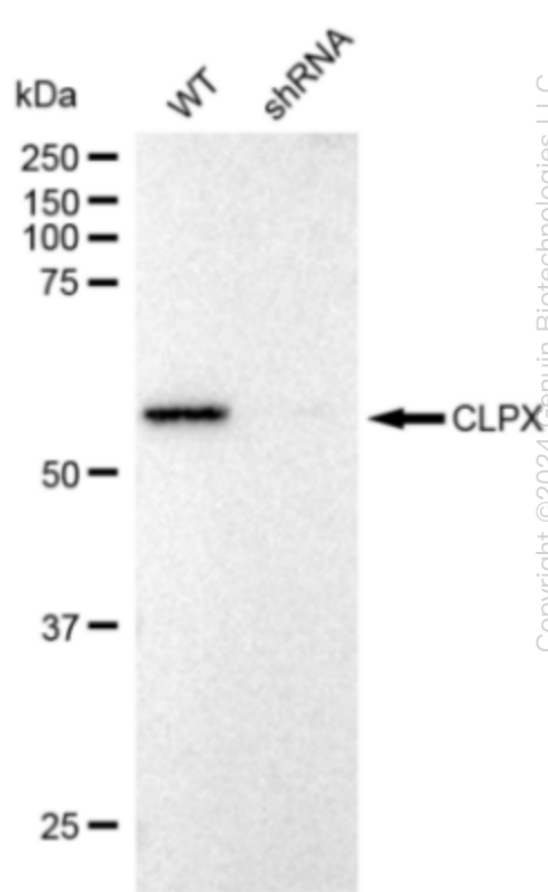
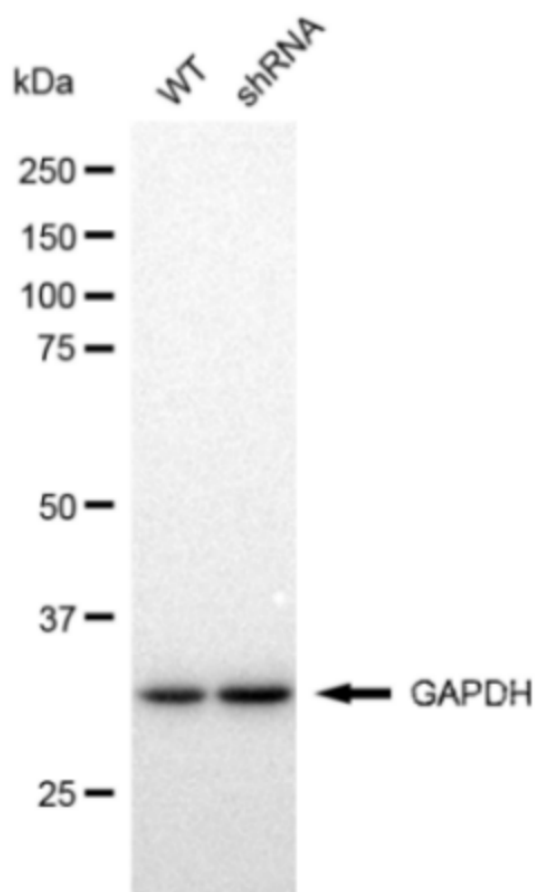
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Genotype	Ct Value
Wild-Type	23.02
Knock-Down	24.37
$\Delta Ct (Ct_{KD} - Ct_{WT})$	1.35
% mRNA Reduction	↓ 61%

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RT-qPCR analysis. HeLa cells were infected with CLPX-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. CLPX protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. GAPDH served as a loading control. The blots were incubated with primary antibodies (Cat#61149, 1:5,000) against CLPX and GAPDH, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody

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(Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).

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