

# Human CTCF Knockdown Cell Line (WB-Validated)



**Catalog #: C61395**

## Aliases

CTCF; CCCTC-Binding Factor; CFAP108; FAP108; CCCTC-Binding Factor (Zinc Finger Protein); 11 Zinc Finger Transcriptional Repressor; Transcriptional Repressor CTCF; 11-Zinc Finger Protein; CTCFL Paralog; MRD21

## Background

Gene Name: CTCF

NCBI Gene Entry: [10664](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human CTCF 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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### SUPPORT

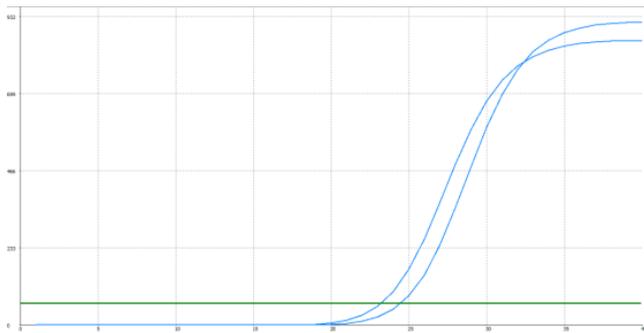
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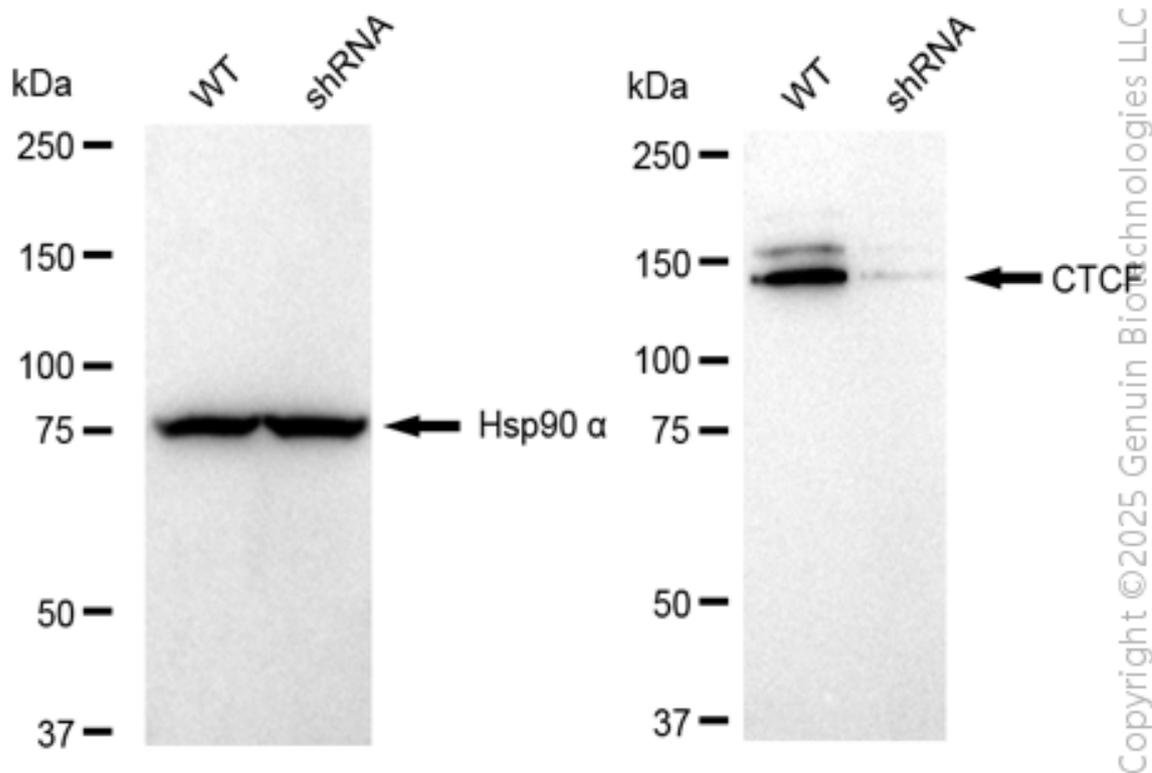
## Human CTCF Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	23.12
Knock-Down	24.42
$\Delta$ Ct (CtKD-CtWT)	1.30
% mRNA Reduction	59%

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RT-qPCR analysis. HeLa cells were infected with CTCF-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%.



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Western blotting analysis. CTCF 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 CTCF and Hsp90  $\alpha$ , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.

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