# Human HTT Knockdown Cell Line (WB-Validated)

# Catalog #: C62159

## Aliases

HTT; Huntingtin; IT15; HD; Huntington Disease Protein; Huntingtin (Huntington Disease); HD Protein; LOMARS

## Background

Gene Name: HTT
NCBI Gene Entry: 3064

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human HTT 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.

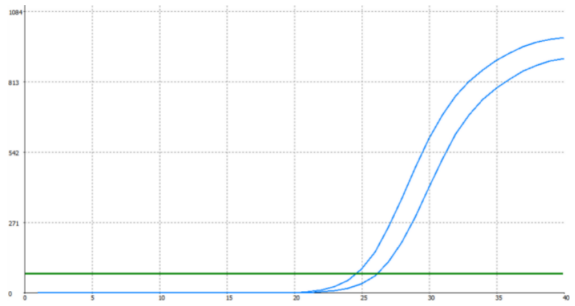
## Instructions For Use

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

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

### Validation Data

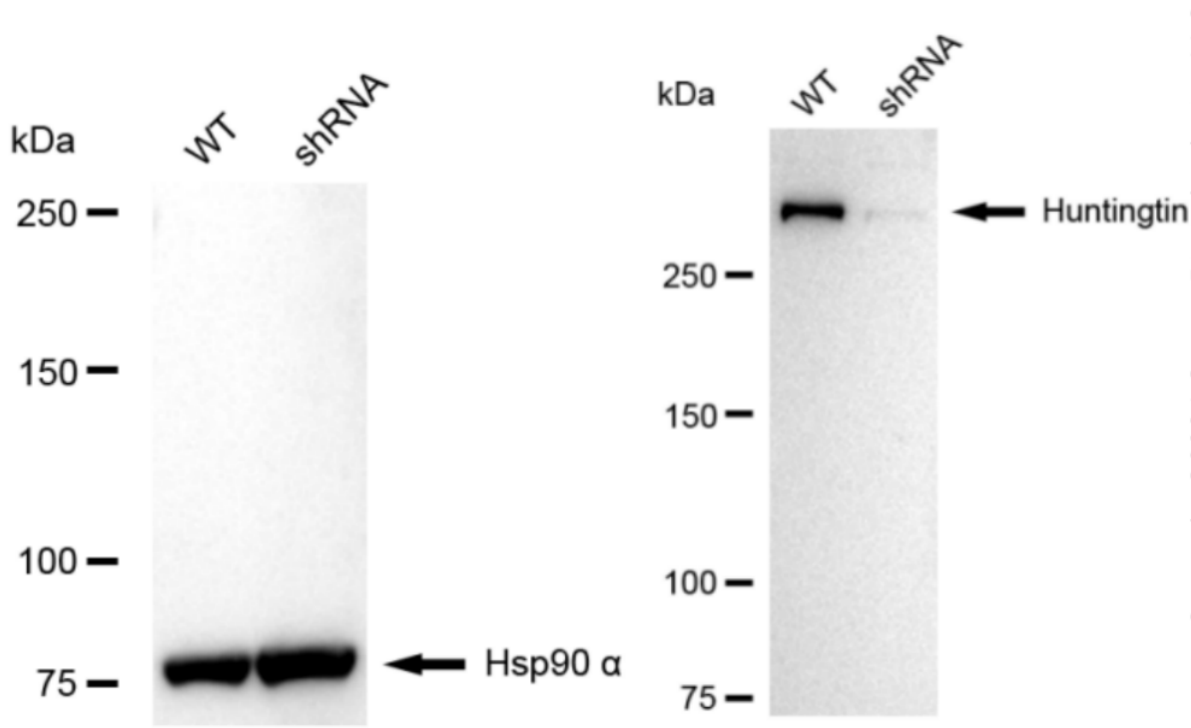
# Human HTT Knockdown Cell Line (WB-Validated)



| Genotype | Ct Value |
|---|---|
| Wild-Type | 24.48 |
| Knock-Down | 25.90 |
| ΔCt ($Ct_{KD}$-$Ct_{WT}$) | 1.42 |
| % mRNA Reduction | ⬇ 63% |



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






Western blotting analysis. HTT protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies (Cat#62159, 1:5,000) against HTT and Hsp90 α, 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).