

# Human IFT88 Knockdown Cell Line (WB-Validated)



**Catalog #: C61674**

## Aliases

IFT88; Intraflagellar Transport 88; D13S1056E; TG737; TTC10; Recessive Polycystic Kidney Disease Protein Tg737 Homolog; Intraflagellar Transport Protein 88 Homolog; TetRatricopeptide Repeat Protein 10; TetRatricopeptide Repeat Domain 10; TPR Repeat Protein 10; Polaris Homolog; MGC26259; HTg737; Probe HTg737 (Polycystic Kidney Disease, Autosomal Recessive); Intraflagellar Transport 88 Homolog (Chlamydomonas); Intraflagellar Transport 88 Homolog; Testicular Tissue Protein Li 93; HTG737; Tg737; DAF19

## Background

Gene Name: IFT88

NCBI Gene Entry: [8100](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human IFT88 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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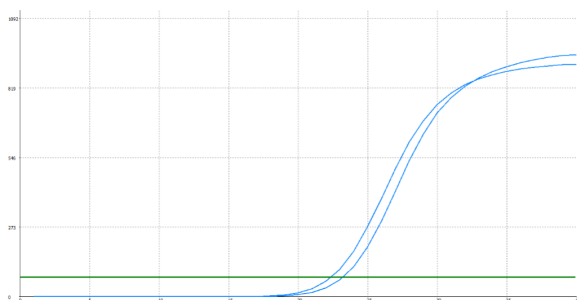
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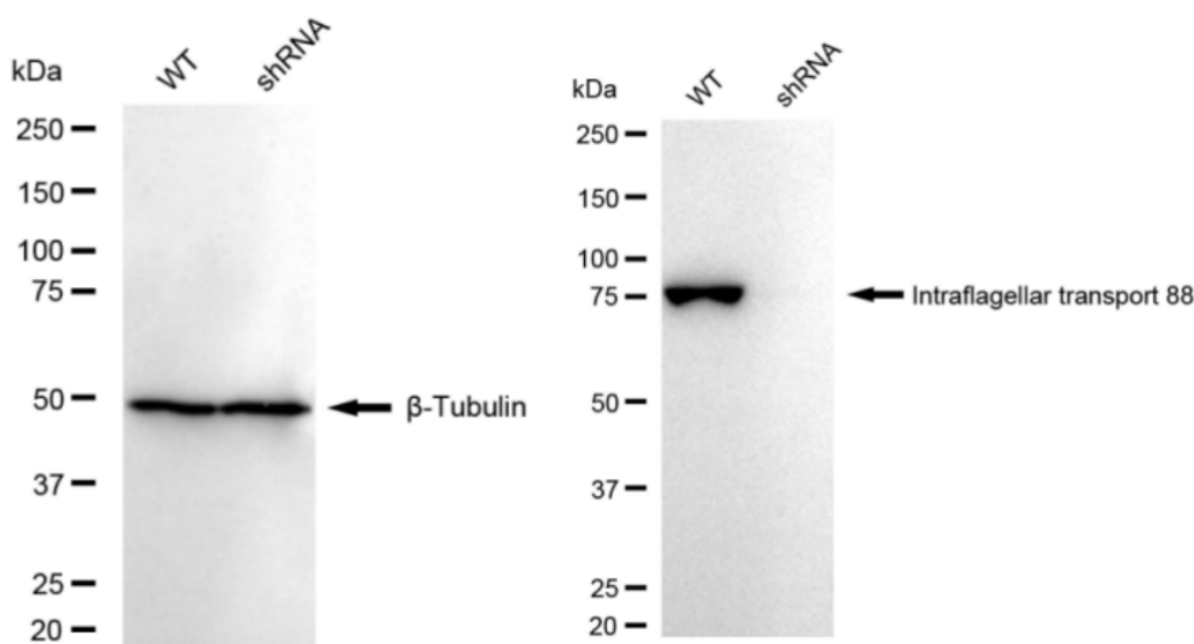
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Genotype	Ct Value
Wild-Type	22.10
Knock-Down	23.03
$\Delta Ct (Ct_{KD} - Ct_{WT})$	0.93
% mRNA Reduction	↓ 48%

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RT-qPCR analysis. HeLa cells were infected with IFT88-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. IFT88 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#61674, 1:5,000) against IFT88 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).

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