

# Human DGCR8 Knockdown Cell Line (WB-Validated)



**Catalog #: C62316**

## Aliases

DGCR8; DGCR8 Microprocessor Complex Subunit; DGCRK6; DiGeorge Syndrome Critical Region Gene 8; Microprocessor Complex Subunit DGCR8; DiGeorge Syndrome Critical Region 8; C22orf12; Pasha; Gy1; DGCR8, Microprocessor Complex Subunit; Chromosome 22 Open Reading Frame 12; C22ORF12; PASHA; GY1

## Background

Gene Name: DGCR8

NCBI Gene Entry: [54487](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human DGCR8 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

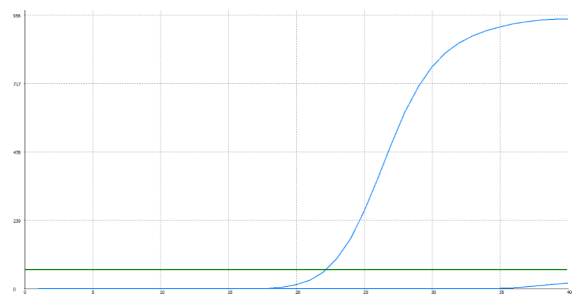
SUPPORT@GENUINBIOTECH.COM  
TEL: +1-540-855-7041

### ORDERS

SALES@GENUINBIOTECH.COM  
FAX: +1-540-855-7041

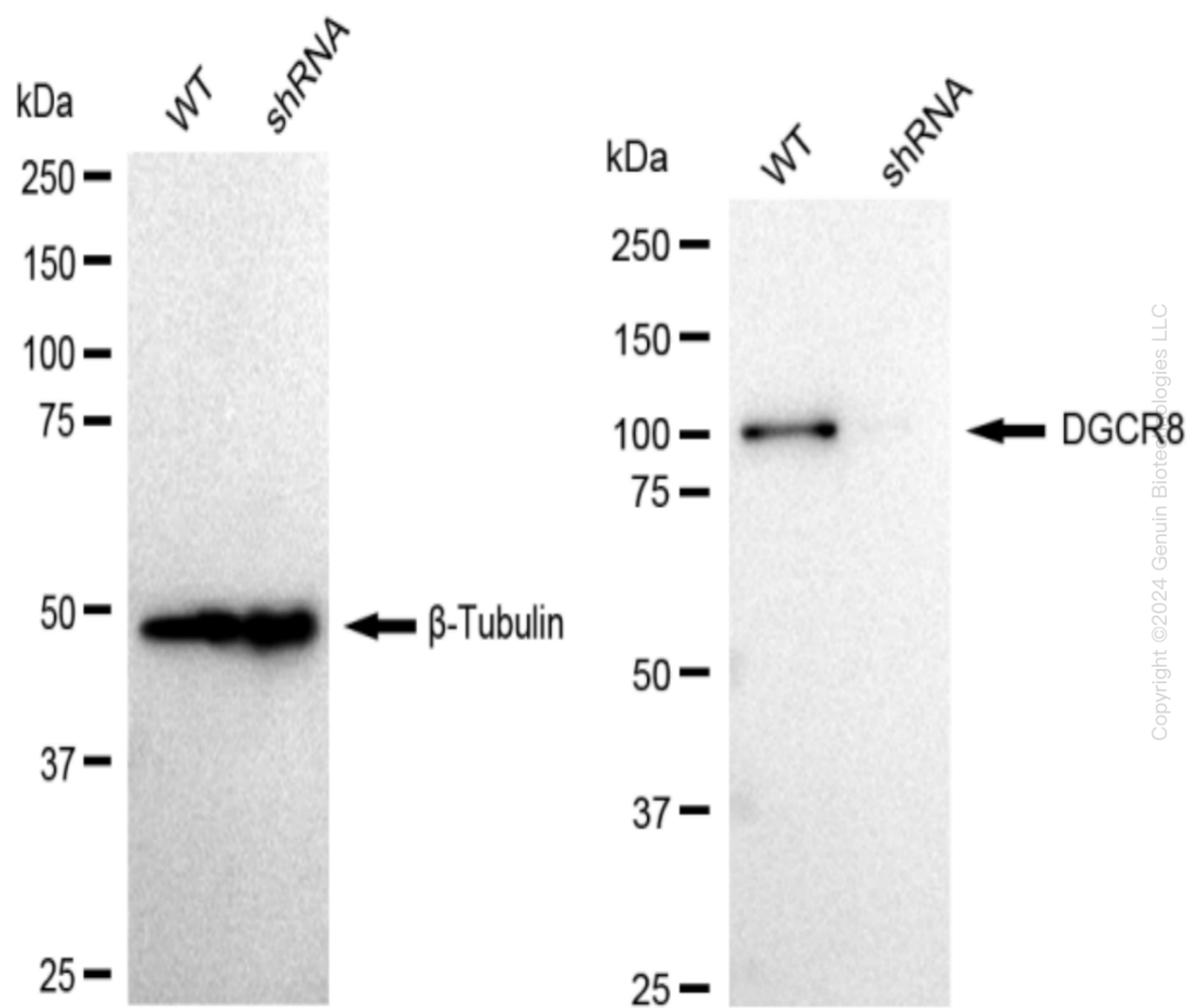
[WWW.GENUINBIOTECH.COM](http://WWW.GENUINBIOTECH.COM)

Human DGCR8 Knockdown Cell Line (WB-Validated)



| Genotype                      | Ct Value |
|-------------------------------|----------|
| Wild-Type                     | 22.18    |
| Knock-Down                    | 37.51    |
| $\Delta Ct (Ct_{KD}-Ct_{WT})$ | 15.33    |
| % mRNA Reduction              | ↓ 99.99% |

RT-qPCR analysis. HeLa cells were infected with DGCR8-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:  $(1-1/2^{\Delta Ct}) \times 100\%$ .



Western blotting analysis. DGCR8 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

SUPPORT

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

ORDERS

SALES@GENUINBIOTECH.COM  
FAX: +1-540-855-7041

WWW.GENUINBIOTECH.COM

## Human DGCR8 Knockdown Cell Line (WB-Validated)

PAGE 3

blots were incubated with primary antibodies against DGCR8 and  $\beta$ -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.

---

### SUPPORT

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

### ORDERS

SALES@GENUINBIOTECH.COM  
FAX: +1-540-855-7041

[WWW.GENUINBIOTECH.COM](http://WWW.GENUINBIOTECH.COM)