

Human GRN Knockdown Cell Line (WB-Validated)



Catalog #: C63575

Aliases

GRN; Granulin Precursor; PCDGF; PGRN; Progranulin; CLN11; PC Cell-Derived Growth Factor; Glycoprotein Of 88 Kda; Glycoprotein 88; Proepithelin; Acrogranin; GP88; PEPI; Epithelin Precursor; Granulin-Epithelin; Epithelin; Granulins; GEP; FTD2

Background

Gene Name: GRN

NCBI Gene Entry: [2896](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human GRN 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

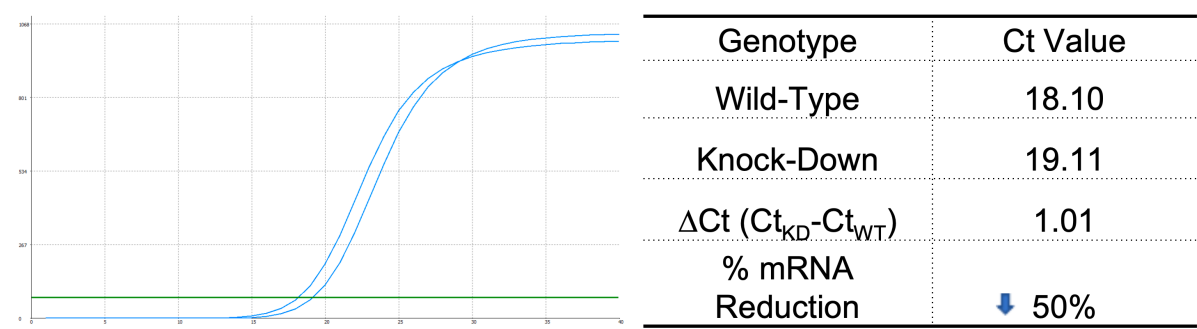
SUPPORT

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ORDERS

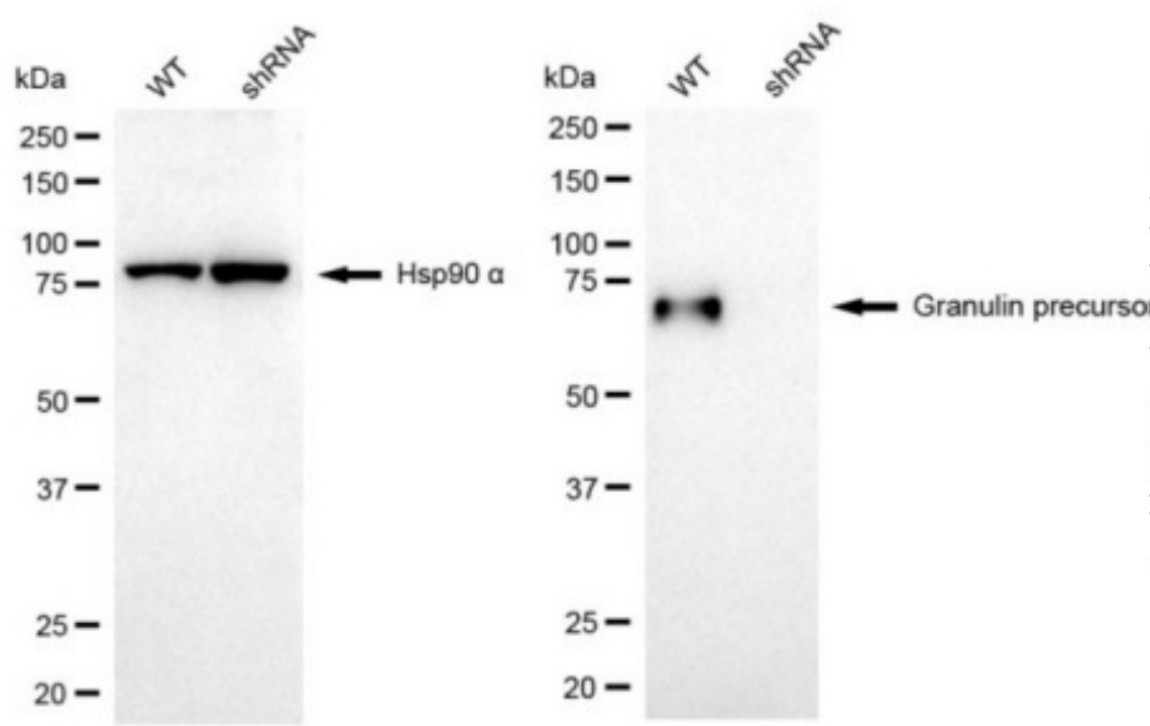
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RT-qPCR analysis. HeLa cells were infected with GRN-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. $\Delta Ct (Ct_{KD} - Ct_{WT})$ was used to calculate 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. GRN 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 against GRN and Hsp90 α , respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.