

Gesicle Producer 293T Cell Line

Catalog Nos.

632617

Lot Number

Specified on product label.

Description

The Gesicle Producer 293T Cell Line is a subclone of the transformed human embryonic kidney cell line, HEK 293, which is highly transfectable and supports high levels of protein expression. The cell line also constitutively expresses the simian virus 40 (SV40) large T antigen. Gesicles are produced in these cells via co-overexpression of packaging mix components, which include a nanovesicle-inducing glycoprotein and a protein that is displayed on the cell surface and mediates binding and fusion with the cellular membrane of target cells. Simultaneous overexpression of another protein cargo can result in incorporation of that protein within the gesicles. When combined with a gesicle production system, these cells are capable of producing high gesicle yields.

Package Contents

- 1 ml Gesicle Producer 293T Cell Line (2.0×10^6 cells/tube)

Storage Conditions

- Store cells in liquid nitrogen (-196°C) or in a -150°C freezer.

Shelf Life

- 1 year from date of receipt under proper storage conditions.

Storage Medium

- Cell Freezing Medium (DMSO) 1x (Sigma-Aldrich, C6164).

Shipping Conditions

- Dry ice (-70°C)

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- Gesicle Producer Cell Line Protocol-at-a-Glance

Cell Type Information

The Gesicle Producer 293T Cell Line is a human embryonic kidney (HEK) cell line, transformed with adenovirus type 5 DNA, which also expresses the SV40 large T antigen. The cell line was subcloned for high transfectability and high gesicle yields.

Recommended Cell Culture Medium

90% Dulbecco's Modified Eagle's Medium (DMEM) with high glucose (4.5 g/L), 4 mM L-glutamine, and sodium bicarbonate (Sigma-Aldrich, D5796); 10% Fetal Bovine Serum (FBS); 100 units/ml penicillin G sodium, and 100 $\mu\text{g/ml}$ streptomycin sulfate. Add 1 mM sodium pyruvate (Sigma-Aldrich, S8636).

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Additional Notes

We recommend that cultures be initiated as soon as possible after receipt. If cells cannot be thawed and cultured immediately upon receipt, the vial should be stored at -80°C temperatures or below, preferably in liquid nitrogen vapor. For HEK 293-based cell lines, we recommend using collagen-coated plates or flasks for culturing for efficient recovery of frozen stocks. Culture vessels coated with compounds other than collagen may also provide suitable growth substrates for HEK 293-based cell lines; however, only collagen-coated plates (e. g. BD Falcon BICOAT Collagen I cellware) have been tested at Clontech. The cells may be cultured on regular flasks/dishes (e.g. non-coated flasks/dishes) after recovery; however, if adherence is poor, we recommend collagen-coated vessels for all culturing purposes. Complete attachment of newly thawed HEK 293-based cultures may require up to 48 hrs.

Quality Control Data

***Mycoplasma* Contamination Test**

This lot of cells has been tested and found to be free of *Mycoplasma* contamination.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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STATEMENT 405

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