

RetroPack™ PT67 Cell Line

Catalog No.

631510

Lot Number

Specified on product label.

Description

An NIH 3T3-derived cell line designed for the production of infectious, replication-incompetent virus. PT67 contains the Moloney murine leukemia virus (MoMuLV) gag, pol, and env (10A1-derived) genes. Transfection with a retroviral vector containing the retroviral packaging signal and a target gene allows production of replication-incompetent virus (1, 2).

Package Contents

- 1 ml RetroPack PT67 Cell Line (2×10^6 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 Co., Cat. No. C6164)

Shipping Conditions

- Dry ice (-70°C)

Product Documents

Documents for Clontech® products are available for download at www.clontech.com/manuals

The following documents apply to this product:

- Retroviral Gene Transfer and Expression User Manual (PT3132-1)

Cell Type Information

NIH 3T3-derived cell line stably expressing the retroviral gag and pol genes, cointroduced with the thymidine kinase gene; and the 10A1 envelope gene, cointroduced with the dihydrofolate reductase gene.

Recommended Cell Culture Medium

90% DMEM; 10% fetal bovine serum; 4 mM L-glutamine; 100 units/ml penicillin G sodium; 100 $\mu\text{g}/\text{ml}$ streptomycin sulfate; and 1 mM sodium pyruvate.

Clontech Laboratories, Inc.

A Takara Bio Company

1290 Terra Bella Avenue, Mountain View, CA 94043, USA

U.S. Technical Support: tech@clontech.com

| | | | |
|--|---------------------------------|------------------------------|-----------------------------|
| United States/Canada 800.662.2566 (040214) | Asia Pacific +1.650.919.7300 | Europe +33.(0)1.3904.6880 | Japan +81.(0)77.543.6116 |
|--|---------------------------------|------------------------------|-----------------------------|

Recommendations for Thawing Frozen Cells

We recommend initiating the culture as soon as possible upon receipt. If the cells cannot be thawed and cultured immediately upon receipt, the vial should be held at temperatures below -79°C , preferably in liquid nitrogen vapor.

1. Thaw rapidly by placing tube of frozen culture in a 37°C water bath.
2. To reduce osmotic shock, dilute the cell suspension in 1 ml of complete growth medium and transfer it to a sterile 15 ml tube.
3. Add 5 ml of complete medium and mix.
4. Add an additional 5 ml of complete medium and mix gently.
5. Pellet the cells for 10 min at $125 \times g$. Discard supernatant.
6. Resuspend the pellet in 10 ml of complete growth medium and seed culture into a flask or culture dish.

References

1. Coffin, J., *et al.* (1996) *Retroviruses* (CSHL Press).
2. Ausubel, F. M., *et al.* (1996) *Current Protocols in Molecular Biology* (John Wiley & Sons, NY) Supp. 36, Section III.

Quality Control Data

Functional Tests

The RetroPack PT67 cell line was functionally tested for its ability to produce infectious virus. RetroPack PT67 cells were transfected with pSIREN-RetroQ-ZsGreen RetroviralVector. After 48 hours, virus was collected and overlaid on NIH 3T3 cells. After three days, the NIH 3T3 cells were analyzed by flow cytometry to confirm retroviral infection. The titer of virus produced by RetroPack PT67 cells was at least 10^5 cfu/ml.

Safety Tests

This cell line was tested to ensure the absence of replication-competent retroviral particles. Culture medium from RetroPack PT67 cells was overlaid on NIH 3T3-pLAPSN stable cells. After 2–3 days in culture, medium from these cells was overlaid on fresh NIH 3T3 cells. Staining of these cells revealed the absence of alkaline phosphatase expression, thus confirming the absence of retroviral infection.

Mycoplasma Contamination Test

This lot of the RetroPack PT67 Cell Line was tested and found to be free of *Mycoplasma* contamination.

NOTE: The viral supernatants produced by these retroviral systems could, depending on your cloned insert, contain potentially hazardous recombinant virus. Due caution must be exercised in the production and handling of recombinant retrovirus. Appropriate NIH, regional, and institutional guidelines apply. The User Manual contains other general information and precautions.

RetroPack™ PT67 Cell Line

CATALOG NO.

631510

NOTICE TO PURCHASER:

Clontech products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Clontech products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without prior written approval of Clontech Laboratories, Inc.

Your use of this product is also subject to compliance with the licensing requirements listed below and described on the product's web page at <http://www.clontech.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

STATEMENT 82

The RetroPack PT67 Cell Line is covered under U.S. Patent No. 5,766,945, which has been assigned to the Fred Hutchinson Cancer Research Center. Rights to use this product are limited to research only. No other rights are conveyed. Inquiry into the availability of a license to broader rights or the use of this product for commercial purposes should be directed to Fred Hutchinson Cancer Research Center, Technology Transfer Office, 1100 Fairview Avenue North, C2M-027, Seattle, WA 98109. Purchase of this product does not grant rights to: 1. offer the materials or any derivatives thereof for resale; 2. to distribute or transfer the materials or any derivatives thereof to third parties.

TRADEMARKS:

Clontech, the Clontech logo, and RetroPack are trademarks of Clontech Laboratories, Inc.

All other marks are the property of their respective owners. Certain trademarks may not be registered in all jurisdictions. Clontech is a Takara Bio Company. ©2014 Clontech Laboratories, Inc. This document has been reviewed and approved by the Clontech Quality Assurance Department.

Clontech Laboratories, Inc.

A Takara Bio Company

1290 Terra Bella Avenue, Mountain View, CA 94043, USA

U.S. Technical Support: tech@clontech.com

4/2/2014

United States/Canada

Asia Pacific

Europe

Japan

800.662.2566

+1.650.919.7300

+33.(0)1.3904.6880

+81.(0)77.543.6116