

PC12 Tet-Off® Cell Line

Catalog No.

630906 (Not sold separately)

Sold as a part of 631134

Amount

1 ml

Lot Number

Specified on product label.

Description

PC12 Tet-Off is a rat adrenal pheochromocytoma-derived cell line that expresses the tetracycline-regulated transactivator Tet-Off (1). Inducible expression of any gene can be achieved by transfecting or transducing this cell line with a vector containing your gene of interest under the control of a tetracycline-responsive promoter. Expression is induced by the withdrawal of doxycycline (Dox) from the culture medium.

Package Contents

- 1 ml PC12 Tet-Off 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 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:

- Tet-Off and Tet-On® Gene Expression Systems User Manual (PT3001-1)
- Tet Cell Lines Protocol-at-a-Glance (PT3001-2)

Cell Type Information

PC12 Tet-Off is a rat adrenal pheochromocytoma cell line stably transfected with pTet-Off (pUHD15-1neo). This cell line is G418 resistant.

Recommended Cell Culture Medium

Grow the cells in 85% Dulbecco's Modified Eagle's Medium (DMEM), 10% horse serum, 5% Tet System Approved Fetal Bovine Serum (FBS), 4 mM L-glutamine, 100 $\mu\text{g}/\text{ml}$ G418, 100 units/ml penicillin G sodium, and 100 $\mu\text{g}/\text{ml}$ streptomycin sulfate, in the presence of 10% CO_2 .

Clontech Laboratories, Inc.

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Certificate of Analysis

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References

1. Gossen, M. & Bujard, H. (1992) *Proc. Natl. Acad. Sci. USA* **89**(12):5547–5551.

Quality Control Data

Functional Tests

PC12 Tet-Off Cells were transiently transfected by electroporation with pTRE2-Luc. Luciferase activity in the presence and absence of 1 µg/ml doxycycline was measured 48 hr later as described in the Tet Cell Lines Protocol-at-a-Glance. Induction was observed to be at least 75-fold when cells were grown in medium containing Clontech's Tet System Approved FBS.

Mycoplasma Contamination Test

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

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