

HT-1080 Tet-Off[®] Cell Line

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Catalog No.

630916 (Not sold separately)

Lot Number

Specified on product label.

Description

HT1080 Tet-Off is a human fibrosarcoma-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 HT-1080 Tet-Off Cell Line (2.0 x 10⁶ cells/tube)

Storage Conditions

- Liquid nitrogen vapor phase

Shelf Life

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

Storage Medium

- 70% Tet System Approved FBS, 20% DMEM, and 10% DMSO

Shipping Conditions

- Domestic: Dry ice (–70°C)
- International: Dry ice (–70°C)

Product User Manuals

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

The following user manuals 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

HT-1080 Tet-Off is a human fibrosarcoma-derived cell line stably transduced with a pRev-tTA-IN retroviral vector. This cell line is G418 resistant.

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HT-1080 Tet-Off[®] Cell Line (Not sold separately)

Recommended Cell Culture Medium

Grow the cells in 90% Dulbecco's Modified Eagle's Medium (DMEM), 10% Tet System Approved Fetal Bovine Serum (FBS), 4 mM L-glutamine, 100 µg/ml G418, 100 units/ml penicillin G sodium, and 100 µg/ml streptomycin sulfate, in the presence of 5% CO₂.

Additional Notes

Infection of this cell line with replication-competent retrovirus may result in the mobilization of the pRev-tTA-In insert. Exercise due caution according to NIH guidelines when working with replication-competent virus.

References

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

Quality Control Data

Functional Tests

HT-1080 Tet-Off cells were transiently transfected by electroporation with pTRE2-Luc. Luciferase activity in the presence and absence of 1 µg/ml doxycycline (Cat. No. 631311) was measured 48 hr later as described in the Tet Systems User Manual. Induction was observed to be at least 100-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.

Test for Replication-Competent Virus

The HT-1080 Tet-Off Cell Line was found to be free of replication-competent virus.

NOTE: Infection of this cell line with replication-competent retrovirus may result in the mobilization of the pRev-tTA-In insert. Exercise due caution according to NIH guidelines when working with replication-competent virus.

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