

U2-OS-Luc Tet-On® Control Cell Line

Catalog No.	Amount	Lot Number
631123 (Not sold separately)	Each	Specified on product label.

Description

U2-OS-Luc Tet-On is a human osteosarcoma-derived cell line that can be used as a control with all Tet-On systems (1) and cell lines. This clone: (i) expresses the tetracycline-regulated transactivator Tet-On, and (ii) contains a stably integrated copy of the firefly luciferase gene under the control of a tetracycline-responsive promoter. Expression of luciferase is induced by the addition of doxycycline (Dox) to the culture medium.

Package Contents

- 1 ml U2-OS-Luc Tet-On Control Cell Line (2 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% alpha-MEM, and 10% DMSO

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

U2-OS-Luc Tet-On is a human osteosarcoma-derived cell line stably transfected with pTRE-Tight-Luc and linear pHyg. This cell line is both G418 and hygromycin resistant.

Recommended Cell Culture Medium

Grow the cells in 90% Dulbecco's Modified Eagle's Medium (DMEM) high glucose (4.5 g/L), 10% Tet System Approved Fetal Bovine Serum (FBS), 4 mM L-glutamine, 100 units/ml penicillin (optional), 100 µg/ml streptomycin (optional), 200 µg/ml G418, and 100 µg/ml hygromycin, in the presence of 5% CO₂.

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Certificate of Analysis

Cat. No. 631123

U2-OS-Luc Tet-On® Control Cell Line (Not sold separately)

References

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

Quality Control Data

Functional Test

Luciferase activity in the presence and absence of 1 µg/ml doxycycline (Cat. No. 631311) was measured after 48 hr. Induction was found to be at least 300-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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