

# Certificate of Analysis

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## HeLa Tet-On® 3G Cell Line

**Catalog No.**

631186 (Not sold separately)

**Lot Number**

Specified on product label.

### Description

HeLa Tet-On 3G is a human cervical epithelioid carcinoma-derived cell line that expresses the tetracycline (Tet)-regulated transactivator Tet-On 3G (Zhou et al. 2006; Loew et al. 2010). 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 addition of doxycycline (Dox) to the culture medium.

### Package Contents

- 1 ml HeLa Tet-On 3G Cell Line ( $2 \times 10^6$  cells/tube)

### Storage Conditions

- Store cells in liquid nitrogen ( $-196^{\circ}\text{C}$ ) or a  $-150^{\circ}\text{C}$  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 ( $-70^{\circ}\text{C}$ )

### Product Documents

Documents for our products are available for download at [takarabio.com/manuals](http://takarabio.com/manuals)

The following documents apply to this product:

- Tet-On 3G Inducible Gene Expression System User Manual (PT5148-1)
- Tet Cell Lines Protocol-at-a-Glance (PT3001-2)

### Cell Type Information

HeLa Tet-On 3G is a human cervical epithelioid carcinoma-derived cell line stably transfected with pCMV-Tet3G. This cell line is G418-resistant.

### 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 units/ml penicillin G sodium & 100  $\mu\text{g}/\text{ml}$  streptomycin sulfate, 100  $\mu\text{g}/\text{ml}$  G418, in the presence of 5%  $\text{CO}_2$ .

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## References

Loew, R., Heinz, N., Hampf, M., Bujard, H. & Gossen, M. Improved Tet-responsive promoters with minimized background expression. *BMC Biotechnol.* **10**, 81 (2010).

Zhou, X., Vink, M., Klaver, B., Berkhout, B. & Das, A. T. Optimization of the Tet-On system for regulated gene expression through viral evolution. *Gene Ther.* **13**, 1382–90 (2006).

## Quality Control Data

### Functional Tests

HeLa Tet-On 3G cells were transiently transfected with pTRE3G-Luc. Luciferase activity in the presence and absence of doxycycline (Cat. No. 631311) was measured 48 hr later as described in the Tet-On 3G Inducible Gene Expression System User Manual. Induction was observed to be at least 800-fold when cells were grown in medium containing our Tet System Approved FBS.

### *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.

## HeLa Tet-On® 3G Cell Line

### CATALOG NO.

631186

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### STATEMENT 42

Use of the Tetracycline controllable expression systems (the "Tet Technology") is covered by a series of patents including U.S. Patent # 8383364, # 9181556, European patents EP # 1954811, #2352833 and corresponding patent claims outside these regions which are proprietary to TET Systems GmbH & Co. KG. Academic research institutions are granted an automatic license with the purchase of this product to use the Tet Technology only for internal, academic research purposes, which license specifically excludes the right to sell, or otherwise transfer, the Tet Technology or its component parts to third parties. Notwithstanding the above, academic and not-for profit research institutions whose research using the Tet Technology is sponsored by for profit organizations, which shall receive ownership to any data and results stemming from the sponsored research, shall need a commercial license agreement from TET Systems in order to use the Tet Technology. In accepting this license, all users acknowledge that the Tet Technology is experimental in nature. TET Systems GmbH & Co. KG makes no warranties, express or implied or of any kind, and hereby disclaims any warranties, representations, or guarantees of any kind as to the Tet Technology, patents, or products. All others are invited to request a license from TET Systems GmbH & Co. KG prior to purchasing these reagents or using them for any purpose. Takara Bio USA, Inc. is required by its licensing agreement to submit a report of all purchasers of the Tet-controllable expression system to TET Systems.

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