

# Certificate of Analysis

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## pRetroX-TetOne-Puro Vector Set

Catalog No.	Amount	Lot Number
634309 (Not sold separately) Sold as a part of 634307 & 634308	Each	Specified on product label.

### Description

When used as part of the RetroX™ Tet-One™ Inducible Expression System (Puro), the pRetroX-TetOne-Puro vector set allows for the retroviral delivery and inducible expression of your gene of interest in a wide variety of dividing mammalian cells. pRetroX-TetOne-Puro is an all-in-one vector constitutively expressing the Tet-On® 3G transactivator from the constitutive human PGK promoter in the forward orientation, and your gene of interest from the *P<sub>TRE3GS</sub>* promoter in the reverse orientation. There is a puromycin selection marker on this vector. Target cells transduced with RetroX-TetOne-Puro retrovirus containing your transgene will express high levels of your gene but, only when cultured in the presence of doxycycline.

### Package Contents

- 20 µl pRetroX-TetOne-Puro Vector (500 ng/µl)
- 20 µl pRetroX-TetOne-Puro-Luc Control Vector (500 ng/µl)

### Storage Conditions

- Store plasmids at -20°C.
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

### Expiration Date

- Specified on product label.

### Storage Buffer

- 10 mM Tris-HCl (pH 8.0), 1 mM EDTA (pH 8.0)

### Shipping Conditions

- Dry ice

### 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:

- Retro-X Tet-One Inducible Expression Systems User Manual
- pRetroX-TetOne-Puro Vector Information
- pRetroX-TetOne-Puro Vector Sequence in GenBank Format
- pRetroX-TetOne-Puro-Luc Control Vector Sequence in GenBank Format

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## Propagation in *E. coli*

- Recommended host strain: Stellar™ Competent Cells (Cat. No. 636763)
- Selectable marker: Plasmids confer resistance to ampicillin (100 µg/ml) in *E. coli* hosts.
- *E. coli* replication origin: pUC

## Quality Control Data

### Plasmid Identity & Purity

- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

Vector	Enzymes	Fragments
pRetroX-TetOne-Puro	HindIII	9.5 kb
	EcoRV & NruI	1.9 kb & 7.6 kb
pRetroX-TetOne-Puro-Luc Control	HindIII	11.1 kb
	BamHI & EcoRI	1.7 kb & 9.4 kb

- Vector identity was confirmed by sequencing.
- A<sub>260</sub>/A<sub>280</sub>: 1.8–2.0

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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### CATALOG NO.

634309

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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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