

iDimerize™ Inducible Homodimer Vector Set 2

Catalog No.

635085 (Not sold separately).
Sold as a part of 635084.

Amount

Each

Lot Number

Specified on product label.

Description

The iDimerize Inducible Homodimer Vector Set 2 is sold as part of the iDimerize Inducible Homodimer System (with Tet-On® 3G), which lets you control the expression level and dimerization of a protein of interest in live cells. The set contains a mammalian expression vector (pTRE3G-Hom1) that allows doxycycline-dependent expression of your protein of interest, tagged with the DmrB domain. Homodimerization of the resulting DmrB-tagged protein is controlled via addition of a small molecule “dimerizer”.

Package Contents

- 20 µl pTRE3G-Hom1 Vector (500 ng/µl)
- 20 µl pTRE3G-Luc Control Vector (500 ng/µl)
- 40 µl Linear Puromycin Marker (50 ng/µl)
- 40 µl Linear Hygromycin Marker (50 ng/µl)

Storage Conditions

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

Shelf Life

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

Storage Buffer

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

Shipping Conditions

- Dry ice (–70°C)

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- iDimerize Inducible Homodimer System (with Tet-On 3G) User Manual
- pTRE3G-Hom1 Vector Information
- pTRE3G-Luc Control Vector Information

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. No. 635085

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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	Enzyme(s)	Fragment(s)
pTRE3G-Hom1	EcoRI	3.8 kb
	BsrBI	1.8 & 2.0 kb
pTRE3G-Luc Control	XhoI	5.1 kb
	BamHI, EcoRI	3.0 & 2.1 kb

- Vector identity was confirmed by sequencing.
- A₂₆₀/A₂₈₀: 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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STATEMENT 99

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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,

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5/27/2025

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