Certificate of Analysis

iDimerize™ Inducible Heterodimer Vector Set 2

Catalog No.	Amount	Lot Number
635080 (Not sold separately). Sold as part of 635079	Each	Specified on product label.

Description

The iDimerize Inducible Heterodimer Vector Set 2 is sold as part of the iDimerize Inducible Heterodimer System (with Tet-On® 3G), which lets you control the expression levels and heterodimerization of two different proteins of interest in live cells. The set contains a mammalian bidirectional expression vector (pTRE3G-BI-Het1) that allows simultaneous, doxycycline-dependent expression of two proteins of interest, tagged with the DmrA and DmrC domains, respectively. Heterodimerization of the resulting fusion proteins is then controlled via a small molecule "dimerizer".

Package Contents

- 20 µl pTRE3G-BI-Het1 Vector (500 ng/µl)
- 20 µl pTRE3G-BI-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 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 Heterodimer System (with Tet-On 3G) User Manual
- pTRE3G-BI-Het1 Vector Information
- pTRE3G-BI-Luc Control Vector Information

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(050218)

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)	Size (kb)
pTRE3G-BI-Het1	HindIII	3.5 kb
	HpaI	2.1 & 1.4 kb
pTRE3G-BI-Luc Control	XhoI	4.5 kb
	BamHI & EcoRI	4.0 & 0.5 kb

- Vector identity was confirmed by sequencing.
- A_{260}/A_{280}: 1.8–2.0

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

Notice to Purchaser

iDimerize™ Inducible Heterodimer Vector Set 2

CATALOG NO.

635080

NOTICE TO PURCHASER:

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without prior written approval of Takara Bio USA, Inc.

Your use of this product is also subject to compliance with the licensing requirements listed below and described on the product´s web page at http://www.takarabio.com. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

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 # 7541446, # 8383364, # 9181556 , European patents EP # 1200607, # 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

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