Certificate of Analysis

pCRE-DD-AmCyan1 Reporter

Catalog No.	Amount	Lot Number
631090 (Not sold separately) Sold as a part of 631089	10 µg	Specified on product label.

Description

This vector is designed to monitor cAMP response element binding protein (CREB) activity in mammalian cells, with minimal background signal. It encodes the cyan fluorescent protein AmCyan1, which is tagged with the N-terminal ProteoTuner™ destabilization domain (DD) and under the control of the CRE promoter. In the absence of Shield1, DD-AmCyan1 is targeted for rapid proteasomal degradation, minimizing the background signal prior to promoter induction.

When a candidate inducer is added to the culture medium simultaneously with Shield1, DD-AmCyan1 is stabilized and can accumulate in response to CRE activation. As a result, only the reporter molecules expressed during CRE induction contribute to the fluorescence signal. This provides a considerably higher signal-to-noise ratio than can be obtained with non-destabilized or constitutively destabilized reporter systems.

Package Contents

- 1 tube of pCRE-DD-AmCyan1 Reporter

Storage Conditions

- Store all components 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)

Concentration

- 500 ng/µl

Plasmid Size

- 4.87 kb

Antibiotic Resistance

- Kanamycin (50 µg/ml)

Shipping Conditions

- Dry ice (–70°C)

Takara Bio USA, Inc.
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(111419)

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Cat. No. 631090

pCRE-DD-AmCyan1 Reporter (Not sold separately)

Sold as a part of 631089

Product Documents

Documents for our products are available for download at **takarabio.com/manuals**
The following documents apply to this product:

- DD-Fluorescent Protein Reporter Systems Protocol-At-A-Glance (PT4088-2)
- ProteoTuner Systems User Manual (PT4039-1)
- pCRE-DD-AmCyan1 Reporter Vector Information (PT5121-5)

Quality Control Data

Plasmid Identity & Purity

- Digestion of pCRE-DD-AmCyan1 Reporter with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

Enzymes	Fragments (kb)
BamHI	4.87
NotI & NheI	1.33 & 3.54

- 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

pCRE-DD-AmCyan1 Reporter

CATALOG NO.

631090

NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. 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 our prior written approval.

Your use of this product is also subject to compliance with the licensing requirements, listed below if applicable, 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 57

This product is covered by U.S. Patent No. 8,173,792.

TRADEMARKS:

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12/19/2019