Product Components List

CRE DD Cyan Reporter System

Catalog No.	Amount
631089	Each

Description

The CRE DD Cyan Reporter System is designed to monitor cAMP response element binding protein (CREB) activity in mammalian cells, with minimal background signal. It includes the pCRE-DD-AmCyan1 Reporter vector and Shield1.

pCRE-DD-AmCyan1 encodes a cyan fluorescent protein reporter tagged at its N-terminus with the ProteoTuner™ destabilization domain (DD), and under the control of the CRE promoter. The DD causes the DD-AmCyan1 reporter to be rapidly targeted to and degraded by proteasomes. This minimizes background fluorescence from leaky promoters prior to promoter activation.

To monitor CREB activity, a candidate inducer is added to the medium simultaneously with the DD's stabilizing ligand, Shield1. This allows DD-AmCyan1 to accumulate in response to CREB activation. As a result, *only* the reporter molecules expressed *during* CRE induction contribute to the fluorescence signal. This system provides a considerably higher signal-to-noise ratio than can be obtained with non-destabilized or constitutively destabilized reporter systems.

Package Contents

- pCRE-DD-AmCyan1 Reporter (Cat. No. 631090) (Not sold separately) >>View Components
- Shield1 (500 µl) (Cat. No. 632189) >>View Components

For storage conditions, please see the Certificate of Analysis supplied with each component.

Product Documents

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

- DD-Fluorescent Protein Reporter Systems Protocol-At-A-Glance
- pCRE-DD-AmCyan1 Reporter Vector Information Packet
- ProteoTuner Plasmid-Based Shield Systems User Manual

Notice to Purchaser

This document has been reviewed and approved by the Quality Department.

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