

# Product Components List

## CRE DD Green Reporter System

Catalog No.	Amount
631085	Each

### Description

The CRE DD Green 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-ZsGreen1 Reporter vector and Shield1.

pCRE-DD-ZsGreen1 encodes a green 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-ZsGreen1 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-ZsGreen1 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-ZsGreen1 Reporter (Cat. No. 631086) (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](http://www.clontech.com/manuals)

The following documents apply to this product:

- DD-Fluorescent Protein Reporter Systems Protocol-At-A-Glance
- pCRE-DD-ZsGreen1 Reporter Vector Information Packet
- ProteoTuner Plasmid-Based Shield Systems User Manual

### Notice to Purchaser

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

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