Product Components List

NFκB DD Red Reporter System

Catalog No.	Amount
631081	Each

Description

The NFκB DD Red Reporter System is designed to monitor NFκB activation in mammalian systems, with minimal background signal. It includes the pNFκB-DD-tdTomato Reporter vector and Shield1.

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

To monitor NFκB activity, a candidate inducer is added to the medium simultaneously with the DD's stabilizing ligand, Shield1. This allows DD-tdTomato to accumulate in response to NFκB activation. As a result, only the reporter molecules expressed during NFκB 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

- pNFκB-DD-tdTomato Reporter (Cat. No. 631082; 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 (PT4088-2)
- pNFκB-DD-tdTomato Reporter Vector Information Packet (PT5117-5)
- ProteoTuner Plasmid-Based Shield Systems User Manual

Notice to Purchaser

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

Takara Bio USA, Inc.
1290 Terra Bella Avenue, Mountain View, CA 94043, USA
U.S. Technical Support: tech@clontech.com

United States/Canada	Asia Pacific	Europe	Japan
800.662.2566	+1.650.919.7300	+33.(0)1.3904.6880	+81.(0)77.565.6999

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