Certificate of Analysis

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PRODUCT: pNFκB-DD-tdTomato Reporter

CATALOG No. **AMOUNT**
631082 10 µg
(Not sold separately)

LOT NUMBER
Specified on product label.

STORAGE CONDITIONS
- Store all components at –20°C.
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

STORAGE BUFFER
10mM Tris-HCl (pH 8.0)
1 mM EDTA (pH 8.0)

SHELF LIFE
1 year from date of receipt under proper storage conditions.

SHIPPING CONDITIONS
Blue ice (4°C) or dry ice (–70°C)

FOR RESEARCH USE ONLY

DESCRIPTION
This vector is designed to monitor NFκB activation in mammalian cells, with minimal background signal. It encodes the red fluorescent protein tdTomato, which is tagged with the N-terminal ProteoTuner™ destabilization domain (DD) and under the control of the NFκB promoter. In the absence of Shield1, DD-tdTomato 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-tdTomato is stabilized and can accumulate in response to NFκB activation. As a result, only the reporter molecules expressed during NFκB 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.

CONCENTRATION: 500 ng/µl

PLASMID SIZE: 5.48 kb

ANTIBIOTIC RESISTANCE
Kanamycin (50 µg/ml)

PACKAGE CONTENTS
- 1 tube of pNFκB-DD-tdTomato Reporter

OTHER
- Vector Information Packet (PT5117-5)

QUALITY CONTROL DATA

- Digestion of pNFκB-DD-tdTomato with the indicated restriction enzyme(s) produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

Enzyme(s)	Fragment(s)
BamHI	5.48 kb
NotI & NheI	1.94 & 3.54 kb

- A_{260}/A_{280} : 1.8–2.0

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