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PRODUCT: pCRE-DD-ZsGreen1 Reporter

<p>CATALOG No. 631086 (Not sold separately)</p> <p>AMOUNT 10 µg</p> <p>LOT NUMBER Specified on product label.</p> <p>STORAGE CONDITIONS</p> <ul style="list-style-type: none"> • Store all components at -20°C. • Spin briefly to recover contents. • Avoid repeated freeze/thaw cycles. <p>STORAGE BUFFER 10mM Tris-HCl (pH 8.0) 1 mM EDTA (pH 8.0)</p> <p>SHELF LIFE 1 year from date of receipt under proper storage conditions.</p> <p>SHIPPING CONDITIONS Blue ice (4°C) or dry ice (-70°C)</p>	<p>DESCRIPTION</p> <p>This vector is designed to monitor cAMP response element binding protein (CREB) activity in mammalian cells, with minimal background signal. It encodes the green fluorescent protein ZsGreen1, 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-ZsGreen1 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-ZsGreen1 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.</p> <p>CONCENTRATION: 500 ng/µl</p> <p>PLASMID SIZE: 4.87 kb</p> <p>ANTIBIOTIC RESISTANCE Kanamycin (50 µg/ml)</p> <p>PACKAGE CONTENTS</p> <ul style="list-style-type: none"> • 1 tube of pCRE-DD-ZsGreen1 Reporter <p>OTHER</p> <ul style="list-style-type: none"> • Vector Information Packet (PT5119-5)
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FOR RESEARCH USE ONLY

QUALITY CONTROL DATA

- Digestion of pCRE-DD-ZsGreen1 with the indicated restriction enzyme(s) produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

Enzyme(s)	Fragment(s)
BamHI	4.87 kb
NotI & NheI	1.33 & 3.54 kb
- A_{260}/A_{280} : 1.8-2.0



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The RCFPs (including DsRed-Express and DsRed-Express2) are covered by one or more of the following U.S. Patents: 7,338,784, 7,338,783, 7,442,522, 7,157,565, 7,217,789, 7,537,915, 6,969,579, 7,150,979, and 7,166,444.

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