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## PRODUCT: pNF $\kappa$ B-DD-ZsGreen1 Reporter

<p><b>CATALOG No.</b> 631080 (Not sold separately)</p> <p><b>AMOUNT</b> 10 <math>\mu</math>g</p> <p><b>LOT NUMBER</b> Specified on product label.</p> <p><b>STORAGE CONDITIONS</b></p> <ul style="list-style-type: none"> <li>• Store all components at <math>-20^{\circ}\text{C}</math>.</li> <li>• Spin briefly to recover contents.</li> <li>• Avoid repeated freeze/thaw cycles.</li> </ul> <p><b>STORAGE BUFFER</b> 10mM Tris-HCl (pH 8.0) 1 mM EDTA (pH 8.0)</p> <p><b>SHELF LIFE</b> 1 year from date of receipt under proper storage conditions.</p> <p><b>SHIPPING CONDITIONS</b> Blue ice (<math>4^{\circ}\text{C}</math>) or dry ice (<math>-70^{\circ}\text{C}</math>)</p>	<p><b>DESCRIPTION</b> This vector is designed to monitor NF<math>\kappa</math>B activation 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 NF<math>\kappa</math>B 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 NF<math>\kappa</math>B activation. As a result, only the reporter molecules expressed during NF<math>\kappa</math>B 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><b>CONCENTRATION:</b> 500 ng/<math>\mu</math>l</p> <p><b>PLASMID SIZE:</b> 4.74 kb</p> <p><b>ANTIBIOTIC RESISTANCE</b> Kanamycin (50 <math>\mu</math>g/ml)</p> <p><b>PACKAGE CONTENTS</b></p> <ul style="list-style-type: none"> <li>• 1 tube of pNF<math>\kappa</math>B-DD-ZsGreen1 Reporter</li> </ul> <p><b>OTHER</b></p> <ul style="list-style-type: none"> <li>• Vector Information Packet (PT5116-5)</li> </ul>
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### FOR RESEARCH USE ONLY

### QUALITY CONTROL DATA

- Digestion of pNF $\kappa$ B-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	4.74 kb
NotI & NheI	1.20 & 3.54 kb
- $A_{260}/A_{280}$  : 1.8-2.0



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