

# Cignal Reporter Assay Kit

## IRF1 Reporter Assay Kit

Cat. no. 336841 CCS-7040L

### For study of pathway activity

The Cignal IRF1 Reporter Assay Kit measures the transcriptional activity of Interferon Regulatory Factor 1 (IRF1), a member of the interferon regulatory transcription factor (IRF) family. IRF1 serves as a transcriptional activator of interferon alpha and beta as well as genes induced by interferon alpha, beta and gamma. IRF1 regulates host defense against pathogens, tumor prevention, and development of the immune system. The IRF1 reporter is a mixture of an IRF1-responsive luciferase construct and a constitutively expressing Renilla element (40:1). The IRF1-responsive luciferase construct encodes the firefly luciferase reporter gene under the control of a minimal (m)CMV promoter and tandem repeats of the IRF1 transcriptional response element. The number of response elements as well as the intervening sequence between response elements have been experimentally optimized to maximize the signal to noise ratio. This reporter monitors both increases and decreases in the transcriptional activity of IRF1. The constitutively expressing Renilla element encodes the Renilla luciferase reporter gene under the control of a CMV immediately early enhancer/promoter and acts as an internal control for normalizing transfection efficiencies and monitoring cell viability. Using a simple dual-luciferase assay, scientists can easily monitor the activity of IRF1 signaling pathways and determine the effect of various treatments, such as gene knockdown, over-expression, and chemical compounds on those pathways.

For further details, consult the *Cignal Reporter Assay Handbook*.

### Shipping and storage

The Cignal Reporter Assay Kit is shipped on dry ice or blue ice. Store at –20°C. When stored under these conditions, this product can be used for 6 months from the date of receipt without reduction in performance.

**Note:** Open the package and store the products appropriately immediately on receipt.

### Performance data

Visit the Website to view performance data for this product.



Sample & Assay Technologies

## Contents

Product	Contents	Cat. no.
Signal Reporter Assay Kit	For 500 reporter assays, 500 negative control assays, and 250 positive control assays when using the recommended 96-well plate transfection protocol; 500 µl (100 ng/µl) Reporter (40:1 mixture of inducible firefly luciferase construct and constitutively expressing Renilla luciferase construct); 500 µl (100 ng/µl) Negative control (40:1 mixture of non-inducible firefly luciferase construct and constitutively expressing Renilla luciferase construct); 250 µl (100 ng/µl) Positive control (40:1:1 mixture of constitutively expressing GFP, constitutively expressing firefly luciferase, and constitutively expressing Renilla luciferase constructs)	Varies

Signal Reporter Assay Kit products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at [www.qiagen.com](http://www.qiagen.com) or can be requested from QIAGEN Technical Services or your local distributor.

Trademarks: QIAGEN® (QIAGEN Group).  
1065997 03/2011 © 2011 QIAGEN, all rights reserved.

<a href="http://www.qiagen.com">www.qiagen.com</a>	<b>Canada</b> ■ 800-572-9613 <b>China</b> ■ 8621-3865-3865 <b>Denmark</b> ■ 80-885945 <b>Australia</b> ■ 1-800-243-800 <b>Austria</b> ■ 0800/281010 <b>Belgium</b> ■ 0800-79612 <b>Brazil</b> ■ 0800-557779	<b>Ireland</b> ■ 1800 555 049 <b>Italy</b> ■ 800-787980 <b>Japan</b> ■ 03-6890-7300 <b>Finland</b> ■ 0800-914416 <b>France</b> ■ 01-60-920-930 <b>Germany</b> ■ 02103-29-12000 <b>Hong Kong</b> ■ 800 933 965	<b>Norway</b> ■ 800-18859 <b>Singapore</b> ■ 1800-742-4368 <b>Spain</b> ■ 91-630-7050 <b>Korea (South)</b> ■ 080-000-7145 <b>Luxembourg</b> ■ 8002 2076 <b>Mexico</b> ■ 01-800-7742-436 <b>The Netherlands</b> ■ 0800 0229592	<b>Norway</b> ■ 800-18859 <b>Singapore</b> ■ 1800-742-4368 <b>Spain</b> ■ 91-630-7050 <b>Sweden</b> ■ 020-790282 <b>Switzerland</b> ■ 055-254-22-11 <b>UK</b> ■ 01293-422-911 <b>USA</b> ■ 800-426-8157
--	---	---	---	---



Sample & Assay Technologies