

DiscoverX

# PathHunter<sup>®</sup> U2OS FGFR2 Functional Assay

## Catalog Number: 93-1049C3

**Contents:** 2 x 10<sup>6</sup> cells per vial in 1 mL

Lot Number: See Vial

## Background

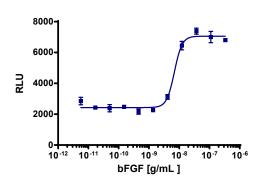
PathHunter Receptor Tyrosine Kinase (RTK) Functional cell lines are engineered to co-express a ProLink<sup>TM</sup> (PK) tagged RTK, an Enzyme Acceptor (EA) tagged SH2 domain, and, in some cases, an untagged co-receptor. Activation of the RTK-PK induces receptor dimerization, leading to SH2-EA recruitment, and forcing complementation of the two  $\beta$ -galactosidase enzyme fragments (EA and PK). The resulting functional enzyme hydrolyzes substrate to generate a chemiluminescent signal.

## **Product Information**

Target RTK:	FGFR2
RTK Accession #:	NM_000141
Description:	Fibroblast growth factor receptor2
Kinase Species:	Human
SH2 Domain:	PLCG1
Cell Type:	U2OS
Storage:	Short term (<24 h): Store at -80°C; Long term (>24 h): Store in vapor phase of liquid nitrogen.

# **Functional Performance**

Cells were plated in a 384-well plate and incubated at  $37^{\circ}$ C and 5% CO<sub>2</sub> to allow the cells to attach and grow. Cells were then stimulated with a control agonist, using the assay conditions described below. Following stimulation, signal was detected using the PathHunter Detection Kit according to the recommended protocol. Please refer to page 2 for recommended assay reagents, detection reagents, and control compounds.



Cell Number/Well:	10000	
Control Agonist 1:	Recombinant Human FGF basic	С
Cell Incubation Time (hours):	4	
Agonist Incubation Time (minute	s): Overnight	
Agonist Incubation Temperature	(°C): 37	
EC <sub>50</sub> for SH2 recruitment (ng/mL)	: 6.9	
Signal:Background at agonist E <sub>ma</sub>	ax: 3.4	



# **Passage Stability**

This cell line has been confirmed to be stable through a minimum of 10 passages with no significant drop in assay window or change in  $EC_{50}$ .

#### **Mycoplasma Testing**

This lot was tested and found to be free of mycoplasma contamination. Data available upon request.

#### **Required Materials**

#### The following additional materials are required but not provided:

Product Use*	Product Description	Catalog Number
Detection	PathHunter <sup>®</sup> Detection Kit	93-0001
Cell Culture	AssayComplete™ Cell Culture Kit-103	92-3103G
Cell Plating	AssayComplete™ Cell Plating 16 Reagent	93-0563R16A
Cell Detachment	AssayComplete™ Cell Detachment Reagent	92-0009
Cell Thawing	AssayComplete™ Thawing Reagent T3	92-4103TR
Cell Freezing	AssayComplete™ Freezing Reagent F3	92-5103FR

\*Please inquire about our cell line-specific AssayComplete Starter Packs to get you started with your cell culture needs.

## **Required Antibiotics**

Antibiotic Name	Concentration (µg/mL)	Catalog Number	
AssayComplete™ Puromycin	Not Applicable	Not Applicable	
AssayComplete™ Hygromycin B	250	92-0029	
AssayComplete™ G418	500	92-0030	

#### Additional Ligand Information

**Control Agonist 1:** Recombinant Human FGF basic **Vendor:** Eurofins DiscoverX<sup>®</sup> (Catalog No. 92-1027)

Ordering: +1.510.979.1415 option 4 or e-mail CustomerServiceDRX@eurofins.com Technical support: +1.510.979.1415 option 5 or e-mail DRX\_SupportUS@eurofinsUS.com General product information: www.discoverx.com



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