

# PathHunter<sup>®</sup> U2OS CSF3R-JAK1 Functional Assay

Catalog Number:	93-0809C3	Lot Number:
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See Vial

Contents:

2 vials, 4 x 10<sup>6</sup> cells per vial in 1 mL

# Background

PathHunter Cytosolic Tyrosine Kinase (CTK) Functional cell lines are engineered to co-express a ProLink™ (PK) tagged Cytokine receptor, an untagged CTK, and an Enzyme Acceptor (EA) tagged SH2 domain. Activation of the Receptor-PK induces phosphorylation of the receptor by the CTK. This leads to SH2-EA recruitment, forcing complementation of the two β-galactosidase enzyme fragments (EA and PK). The resulting functional enzyme hydrolyzes substrate to generate a chemiluminescent signal.

## **Product Information**

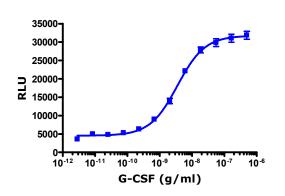
Cytokine Receptor:	CSF3R	Target CTK:	JAK1
Accession #:	NM_000760	CTK Accession #	: NM_002227
<b>Receptor Description:</b>	colony stimulating factor 3 receptor	CTK Description:	Janus kinase 1
<b>Receptor Species:</b>	Human	CTK Species:	Human
SH2 Domain:	SHC1		
Cell Type:	U2OS		
Storage:	Short term (<24 h): Store at -80°C; Lo	ong term (>24 h): Sto	ore in vapor phase of liquid nitrogen.

# **Functional Performance**

Cells were plated in a 384-well plate and incubated overnight at 37°C and 5% CO 2 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.

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Cell Number/Well:	10000
Control Agonist:	G-CSF (Human)
Ligand Incubation Time (minutes):	180
Ligand Incubation Temperature (°C):	RT
EC₅₀ for SH2 recruitment (ng/mL):	3.5
Signal:Background at agonist E <sub>max</sub> :	8.9

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# **Passage Stability**

This cell line has been confirmed to be stable through 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	0.25	92-0028
AssayComplete™ Hygromycin B	250	92-0029
AssayComplete™ G418	500	92-0030

# **Additional Ligand Information**

Control Agonist: G-CSF (Human) Vendor: DiscoverX<sup>®</sup> (Catalog No. 92-1143)

For order placement or technical support, please call 1.866.448.4864 (North America) or +44.121.260.6142 (Europe) or e-mail info@discoverx.com. For additional information, please visit discoverx.com.

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