

Lot Number:

DiscoverX

See Vial

# PathHunter<sup>®</sup> U2OS RANK Signaling Reporter Cell Line

Catalog Number: 93-1156C3

**Contents:**  $1 \times 10^6$  cells per vial in 1 mL

# Background

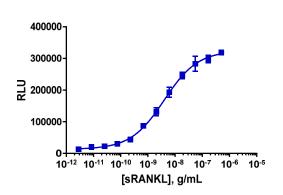
PathHunter Pathway Reporter cell lines are engineered to express an Enzyme Donor (ED) tagged reporter protein controlled by a pathway-inducible trascriptional response element. Pathway activation via endogenous or exogenous target results in induced expressions of the ED-tagged protein. Addition of exogenous Enzyme Acceptor (EA), and buffer, lyses the cell and forces complementation of the ED and EA enzyme fragments. This results in the formation of a functional enzyme that hydrolyzes substrate to generate a chemiluminescent signal.

## **Product Information**

Target Receptor	RANK
Target Accession #	NM_003839.3
Description:	Tumor necrosis factor receptor superfamily, member 11a
Target Species:	Human
Response Element	NF-ĸB
Reporter ED Tag:	ePL
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 96-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 compound, 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:	5000
Cell Seeding Time (hours):	4
Control Agonist:	soluble RANKL
Ligand Incubation Time (minutes):	960
Ligand Incubation Temperature (°C):	37
$EC_{50}$ for compound stimulation (ng/mL)	: 4.0
Signal:Background at agonist E <sub>max</sub> :	24.0
Detection Incubation Time (hrs.)	1

# Datasheet



## **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> ProLabel <sup>®</sup> /ProLink™ Detection Kit	93-0812
Cell Culture	AssayComplete™ Cell Culture Kit-103	92-3103G
Cell Plating	AssayComplete™ Cell Plating 22 Reagent	93-0563R22A
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	Not Applicable	Not Applicable
AssayComplete™ Blasticidin	N/A	R21001 (Invitrogen)

#### Additional Ligand Information

Control Agonist: soluble RANKL

**Vendor:** Eurofins DiscoverX<sup>®</sup> (Catalog No. 92-1282M)

#### Limited Use License Agreement

These products may be covered by issued US and/or foreign patents, patent application and subject to Limited Use Label License.

Please visit https://www.discoverx.com/legal-policies/ for limited-use label license agreement and trademark information for this product.

 $\ensuremath{\mathbb{C}}$  2024 Eurofins DiscoverX, a Eurofins Discovery Company. All Rights Reserved.