

### PathHunter<sup>®</sup> HEK 293 β-Arrestin1-EA Parental Cell Line

Catalog Numbor	93-0798	Lat Number:	Sool
Catalog Number:	93-0798	Lot Number:	See \

Vial

**Contents:** 

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

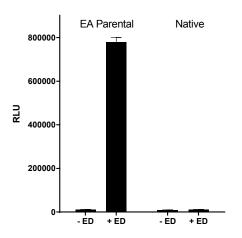
#### **Background**

PathHunter β-arrestin1 and 2 EA parental cell lines allow for introduction of your own GPCRs (or other β-arrestin binding protein) and development of your own β-arrestin recruitment assays. PathHunter β-arrestin assays take advantage of DiscoverX's proprietary enzyme fragment complementation technology. The GPCR (or other  $\beta$ -arrestin binding protein) is fused in frame with a small enzyme donor fragment of β-galactosidase (β-gal) called ProLink™ (PK) which is then coexpressed in the EA parental cell line stably expressing a fusion protein of  $\beta$ -arrestin with a larger fragment of  $\beta$ -gal called enzyme acceptor (EA). Activation of the GPCR-PK (or other PK-tagged β-arrestin binding protein), which induces binding to the  $\beta$ -arrestin-EA fusion protein, forces complementation of the two  $\beta$ -gal enzyme fragments, resulting in the formation of an active β-gal enzyme. Addition of PathHunter detection reagents results in generation of a chemiluminescent signal, allowing the interaction of  $\beta$ -arrestin with GPCR or  $\beta$ -arrestin binding protein to be detected.

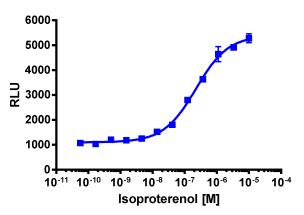
#### **Product Information**

Expressed Protein:	β-Arrestin1-EA
Cell Type:	HEK 293
Storage:	Short term (<24 h): Store at -80°C; Long term (>24 h): Store in vapor phase of liquid nitrogen.

#### **Functional Performance**



EA Parental or native cells were seeded in a 384-well plate and incubated overnight at 37°C/5% CO<sub>2</sub>. Following cell lysis in the absence (left bar) and presence (right bar) of excess Enzyme Donor (ED or PK), β-galactosidase luminescence signal was detected using the PathHunter Detection Kit according to the recommended protocol. Please refer to page 2 for recommended assay and detection reagents and control compounds. Data are plotted as RLU (mean ± standard deviation).



Representative Data: A stable pool of β-arrestin1-EA parental cells expressing PK-tagged receptor (ADRB2; NM 000024.5) were plated in a multi-well plate and stimulated with a control agonist (Isoproterenol), using the following conditions: Cell Plating assay Reagent: AssayComplete<sup>™</sup> Cell Plating 0 Reagent; Cell Incubation Time (Hours): 48h; Agonist Incubation Time (Minutes): 90; Agonist Incubation Temperature (°C): 37. EC<sub>50</sub> 222 nM; S:B 5.1

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#### **Passage Stability**

This cell line has been confirmed to stably express the EA-fusion reporter protein through 10 passages.

#### **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-105	92-3105G
Cell Detachment	AssayComplete™ Cell Detachment Reagent	92-0009
Cell Thawing	AssayComplete™ Thawing Reagent T1	92-4101TR
Cell Freezing	AssayComplete™ Freezing Reagent F1	92-5101FR

\*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)	tion (µg/mL) Catalog Number	
AssayComplete™ Puromycin	Not Applicable	Not Applicable	
AssayComplete™ Hygromycin B	200	92-0029	
AssayComplete™ G418	Not Applicable	Not Applicable	

#### **ProLink™ Vectors (minimum one required)**

Product Description	Catalog Number
pCMV-ProLink™ Cloning Vector Bundle (contains all 4 PK vectors)	93-0491
pCMV-ProLink™ 1 Vector	93-0167
pCMV-ProLink™ 2 Vector	93-0171
pCMV-ARMS1-ProLink™ 2 Vector	93-0489
pCMV-ARMS2-ProLink™ 2 Vector	93-0490

For order placement or technical support, please call 1.510.771.3500 (North America) +44.121.260.6142 (Europe) or e-mail info@discoverx.com. For additional information, please visit discoverx.com.

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