

# PathHunter® CHO-K1 MRGPRX4 β-Arrestin Orphan GPCR Cell Line

Catalog Number: 93-0541C2A Lot Number: See Vial

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

#### **Background**

PathHunter  $\beta$ -Arrestin Orphan GPCR cell lines are engineered to co-express the ProLink<sup>TM</sup> (PK) tagged GPCR and the Enzyme Acceptor (EA) tagged  $\beta$ -Arrestin. Activation of the GPCR-PK induces  $\beta$ -Arrestin-EA recruitment, 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 GPCR: MRGPRX4

**Description:** MAS-related GPR, member X4

Receptor Family: Class A Orphan

Accession Number: NM\_054032

GPCR Species: Human

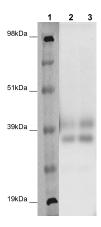
**β-Arrestin Isoform:** β-Arrestin-2

ProLink™ Tag: PK1

Cell Type: CHO-K1

Storage: Short term (<24 h): Store at -80°C; Long term (>24 h): Store in vapor phase of liquid nitrogen.

# **Functional Performance**



Lane 1: MW Markers Lane 2: no PNGase F Lane 3: with PNGaseF

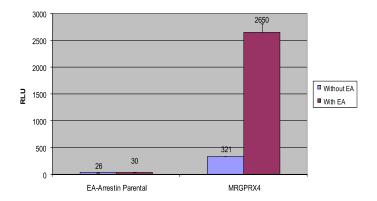


Figure 1. Cell lysates prepared from PathHunter  $\beta$ -Arrestin Orphan GPCR cell lines were treated with PNGase F (Glyko; Cat. #GKE-5003), run on a SDS-PAGE gel and analyzed. Untreated lane resolves a band of appropriate size corresponding to GPCR-PK fusion protein and the PNGase F treated lane resolves a deglycosylated band indicative of proper expression and folding of GPCR protein.

Figure 2. PathHunter β-Arrestin Orphan GPCR cells were analyzed for basal activity as well as GPCR-ProLink<sup>TM</sup> expression by comparing the ratio of signal between untreated cells and cells treated with saturating amounts of exogenous EA, using ProLink<sup>TM</sup> Detection Kit (DrX: 92-0006). Signal from complementation of ProLink<sup>TM</sup> and EA fragments correlates to the amount of GPCR-PK expression in the cell line.



### **Passage Stability**

This cell line has been confirmed to be stable through a Minimum of 10 passages with no significant change in GPCR-PK expression level.

#### **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® Detection Kit 93-0001	
Cell Culture	AssayComplete™ Cell Culture Kit-107	92-3107G
Cell Plating	AssayComplete™ Cell Plating 1 Reagent	93-0563R1A
Cell Detachment	AssayComplete™ Cell Detachment Reagent	92-0009
Cell Thawing	AssayComplete™ Thawing Reagent T2	92-4102TR
Cell Freezing	AssayComplete™ Freezing Reagent F2	92-5102FR

<sup>\*</sup>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	300	92-0029
AssayComplete™ G418	800	92-0030

### **Datasheet**



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