

# PathHunter® MC2R β-Arrestin Cell Line (U2OS)

Catalog Number: 93-1189C3 Lot Number: see vial

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

#### **Background**

PathHunter  $\beta$ -Arrestin 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: MC2R

**Description:** Melanocortin 2 receptor

Receptor Family: Melanocortin

Coupling: Gs Co-Receptor: MRAP

Accession Number: NM\_000529.2 Co-Receptor Melanocortin 2 receptor accessory

GPCR Species: Human Description: protein

**β-Arrestin Isoform:** β-Arrestin-2

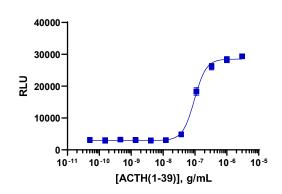
ProLink™ Tag: PK1 Co-Receptor NP\_001366157.1

Cell Type: U2OS Accession #:

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 overnight at 37°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:	5000
Control Agonist:	ACTH (1-39)
Agonist Incubation Time (minutes):	90
Agonist Incubation Temperature (°C):	37
EC <sub>50</sub> for Agonist Stimulation (nM):	96
Signal:Background at Agonist $E_{max}$ :	9.7



#### **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® Flash Detection Kit	93-0247
Cell Culture	AssayComplete™ Cell Culture Kit-103	92-3103G
Cell Plating	AssayComplete™ Cell Plating 5 Reagent	93-0563R5A
Cell Detachment	AssayComplete™ Cell Detachment Reagent	92-0009
Cell Thawing	AssayComplete™ Thawing Reagent T3	92-4103TR
Cell Freezing	AssayComplete™ Freezing Reagent F3	92-5103FR

<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	0.25	92-0028
AssayComplete™ Hygromycin B	250	92-0029
AssayComplete™ G418	500	92-0030

# **Additional Ligand Information**

Control Compound: ACTH (1-39)

Vendor: Genscript (Catalog No. RP11304-0.5) or equivalent

# **Datasheet**



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