

Order: +86 021-68455258/50432826/50432825

Toll-free: +86 400 627 9288 Email: service@genomeditech.com

# **Product Sheet**

## Cynomolgus\_MRGPRX2 HEK-293 Cell Line

Catalog number: GM-C39015

Version 3.3.1.241225

Cynomolgus\_MRGPRX2 HEK-293 Cell Line is a clonal stable HEK-293 cell line that

**Description** constitutively expresses the cynomolgus MRGPRX2 gene, constructed using lentiviral

technology.

**Quantity** 5E6 Cells per vial,1 mL

**Product Format** 1 vial of frozen cells

**Shipping** Shipped on dry ice

Storage Conditions Liquid nitrogen immediately upon receipt

Target Cynomolgus\_MRGPRX2

Gene ID/Uniprot ID Q5U9D9

Host Cell HEK-293

**Recovery Medium** DMEM+10% FBS+1% P.S

Growth medium DMEM+10% FBS+1% P.S+0.75 μg/mL Puromycin

Note None

Freezing Medium 90% FBS+10% DMSO

**Growth properties** Adherent

**Growth Conditions** 37°C, 5% CO<sub>2</sub>

Mycoplasma Testing The cell line has been screened to confirm the absence of Mycoplasma species.

**Safety considerations** Biosafety Level 2

Note It is recommended to expand the cell culture and store a minimum of 10 vials at an early

passage for potential future use.



Order: +86 021-68455258/50432826/50432825

Toll-free: +86 400 627 9288 Email: service@genomeditech.com

#### **Materials**

Reagent	Manufacturer/Catalogue No.
DMEM	Gibco/C11995500BT
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
APC anti-human MRGX2 Antibody	Biolegend/359006

#### **Figures**

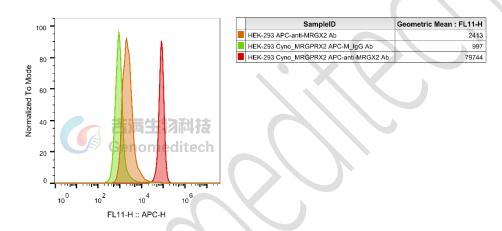


Figure 1 | Cynomolgus\_MRGPRX2 HEK-293 Cell Line (Cat. GM-C39015) was determined by flow cytometry using APC anti-human MRGX2 Antibody (Biolegend/359006).

### **Cell Recovery**

Recovery Medium: DMEM+10% FBS+1% P.S

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

- a) Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 3 minutes).
- b) Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
- c) Transfer the vial contents to a centrifuge tube containing 5.0 mL complete culture medium and spin at approximately 176 x g for 5 minutes. Discard supernatant.
- d) Resuspend cell pellet with the recommended recovery medium. And dispense into appropriate culture dishes.

吉满生物科技 Genomeditech Genomeditech (Shanghai) Co.,Ltd.

Order: +86 021-68455258/50432826/50432825

Toll-free: +86 400 627 9288

Email: service@genomeditech.com

e) Incubate the culture at 37°C in a suitable incubator. A 5% CO<sub>2</sub> in air atmosphere is recommended if using the medium described on this product sheet.

## **Cell Freezing**

Freezing Medium: 90% FBS+10% DMSO

- a) Centrifuge at 176 x g for 3 minutes to collect cells.
- b) Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5E6 cells/mL.
- c) Aliquot 1 mL into each vial.
- d) Place the vial in a controlled-rate freezing container and store at -80°C for at least 1 day, then transfer to liquid nitrogen as soon as possible.

## Cell passage

Growth medium: DMEM+10% FBS+1% P.S+0.75  $\mu g/mL$  Puromycin

For the first 1 to 2 passages post-resuscitation, use the recovery medium. Once the cells have stabilized, switch to a growth medium.

- a) Subculturing is necessary when the cell density reaches 80%. It is recommended to perform subculturing at a ratio of 1:3 to 1:4 every 2-3 days. Ensure that the density does not exceed 80%, as overcrowding can lead to reduced viability due to compression.
- b) Remove and discard culture medium.
- c) Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor.
- d) Add 1.0 mL of 0.25% (w/v) Trypsin-EDTA solution to dish and observe cells under an inverted microscope until cell layer is dispersed (usually within 30 to 60 seconds at 37°C).
- e) Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.
- f) Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting.
- g) After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels.
- h) Incubate cultures at 37°C.

Subcultivation Ratio: A subcultivation ratio of 1:3 - 1:4 is recommended

Medium Renewal: Every 2 to 3 days

#### **Notes**

a) Upon initial thawing, a higher number of dead cells is observed, which is a normal phenomenon. Significant improvement is seen after adaptation. Once the cells reach a stable state, the number of dead cells decreases after subculturing and the cell growth rate becomes stable.

b) Ensure that the cell density does not exceed 80%, as overcrowding may lead to reduced viability due to compression.



Order: +86 021-68455258/50432826/50432825

Toll-free: +86 400 627 9288 Email: service@genomeditech.com

#### **Sequence**

MRGPRX2 Q5U9D9

MDPTTPAWGTESTTMNGNDQALPLLCGKETMISVFLILFIALVGLVGNAFVLWLLGFRMRRNAFSVYVLSLA GADFLFLCFQMTNCLAYLINFFGSISINFPSFFTTVMTCACLAGLSMLSAISTQRCLSILWPIWYRCRRPRHLSA VMCVLLWALSLLLSILEGKFCGFLFSDGDSGWCQTFDFITAAWLMFLFVVLCGSSLALLVRILCGSRSLPLTR LYLTILLTVLIFLLCGLPFGIQWFLILWIWKNSDVLFCHIHPVSVVLSSFNSSANPIIYFFVGSFRKQWRLRQPIL KLALQRALQDTAEVDHSEGCFSQGTLEMSRSSLV

#### **Related Products**

OX40		
H_OX40 Reporter Cell Line	Cynomolgus_OX40L CHO-K1 Cell Line	
H_OX40 CHO-K1 Cell Line	H_OX40L CHO-K1 Cell Line	
H_OX40L HEK-293 Cell Line		
Anti-H_OX40 hIgG2 Antibody(Ivuxolimab)	Anti-OX40L hIgG1 Reference Antibody(Oxebio)	
Anti-OX40L hIgG4 Antibody(Amlitelimab)	Anti-OX40L hIgG4 Reference Antibody(Amlbio)	
Biotinylated Human OX40L Protein; His-Avi Tag	Cynomolgus OX40 Protein; His Tag	
Cynomolgus OX40L Protein; His Tag	Cynomolgus OX40L Protein; mFc Tag	
Human OX40 Protein; His Tag	Human OX40L Protein; His Tag	
Human OX40L Protein; mFc Tag	<b>&gt;</b>	
IL-4/IL-13		
IL-4 Reporter Cell Line	IL-4/IL-13 Reporter 293 Cell Line	
IL-4/IL-13 Reporter 293 DDX35TM Cell Line	Cynomolgus_IL4R CHO-K1 Cell Line	
H_IL4R CHO-K1 Cell Line		
Anti-IL-4R hIgG1 Antibody(12B5)	Anti-IL4R hIgG4 Antibody(Dupilumab)	
Anti-IL4R hIgG4 Reference Antibody (Dupbio)		
Human IL-4R alpha Protein; mFc Tag		
IL-31		
H_IL-31 Reporter Cell Line	Cynomolgus_IL31RA CHO-K1 Cell Line	
H_IL-31RA OSMR Baf3 Cell Line	H_IL31RA CHO-K1 Cell Line	
H_IL31RA HEK-293 Cell Line		
Anti-IL31 hIgG1 Antibody(mAb33)	Anti-IL31RA hIgG1 Antibody(NA633)	
Anti-IL31RA hIgG2 Antibody(Nemolizumab)	Anti-OSMR hIgG4 Antibody(Vixarelimab)	
c-Kit: SCF		
H_c-Kit(CD117) GNNK(-) 293 Blockade Reporter Cell Line	Cynomolgus_c-Kit(CD117) GNNK(-) CHO-K1 Cell Line	
H_c-Kit(CD117) GNNK(-) CHO-K1 Cell Line	H_c-Kit(CD117) GNNK(-) HEK-293 Cell Line	
H_c-Kit(CD117) GNNK(+) CHO-K1 Cell Line		
Anti-c-Kit(CD117) hIgG1 Antibody(barzolvolimab)	Anti-c-Kit(CD117) hIgG1 Antibody(briquilimab)	
Anti-c-Kit(CD117) hIgG1 Reference Antibody(barbio)		
Biotinylated Human SCF Protein; His-Avi Tag	Cynomolgus c-Kit(CD117) Protein; His Tag	



Order: +86 021-68455258/50432826/50432825

Toll-free: +86 400 627 9288

Email: service@genomeditech.com

Human c-Kit(CD117) Protein; hFc Tag	Human c-Kit(CD117) Protein; His Tag	
Human SCF Protein; His Tag	Human SCF Protein; mFc Tag	
MRGPRX2		
H_MRGPRX2 Reporter Cell Line	Cynomolgus_MRGPRX2 CHO-K1 Cell Line	
H_MRGPRX2 CHO-K1 Cell Line	H_MRGPRX2 HEK-293 Cell Line	

#### **Limited Use License Agreement**

Genomeditech (Shanghai) Co., Ltd grants to the Licensee all intellectual property rights, exclusive, non-transferable, and non-sublicensable rights of the Licensed Materials; Genomeditech (Shanghai) Co., Ltd will retain ownership of the Licensed Materials, cell line history packages, progeny, and the Licensed Materials including modified materials.

Between Genomeditech (Shanghai) Co., Ltd, and Licensee, Licensee is not permitted to modify cell lines in any way. The Licensee shall not share, distribute, sell, sublicense, or otherwise provide the Licensed Materials, or progenitors to third parties such as laboratories, departments, research institutions, hospitals, universities, or biotechnology companies for use other than for the purpose of outsourcing the Licensee's research.

Please refer to the Genomeditech Cell Line License Agreement for details.