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# **Product Sheet**

# Flag-Rat\_Mrgprb3 HEK-293 Cell Line

Catalog number: GM-C41122

Version 3.3.1.250711

Flag-Rat\_Mrgprb3 HEK-293 Cell Line is a clonal stable HEK-293 cell line that **Description** 

constitutively expresses the rat Mrgprb3 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 Flag-Rat\_Mrgprb3

Gene ID/Uniprot ID F1LLV4

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.



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#### **Materials**

Reagent	Manufacturer/Catalogue No.
DMEM	Gibco/C11995500BT
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
Anti-Flag mIgG1 Antibody	Genomeditech/GM-30726AB

## **Figures**

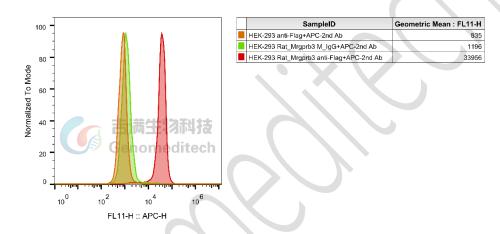


Figure 1 | Flag-Rat\_Mrgprb3 HEK-293 Cell Line (Cat. GM-C41122) was determined by flow cytometry using Anti-Flag mIgG1 Antibody (Cat. GM-30726AB).

#### **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.

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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

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.

Aliquot 1 mL into each vial. c)

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 µg/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.

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.

Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor. c)

Add 1.0 mL of 0.25% (w/v) Trypsin-EDTA solution to dish and observe cells under an inverted microscope until cell d)

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.

Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting. f)

After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels. g)

Incubate cultures at 37°C. h)

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

Medium Renewal: Every 2 to 3 days

**Notes** 

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.

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

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#### **Sequence**

Flag-Mrgprb3 F1LLV4

DYKDDDDKGSGMEERNISEMLRVDSKILNSTAVNESAPGMFFCVVVFNRMILLSFIVALVGLVGNATVLWFL GFQMPRNAFSVYILNLAGADFLCICFHIGHYLYNILDTDSIPIEVPAFFTVVRNFAYLCGLSILSAISLERCLSVL WPIWYRCQRPRHTSVVICTLLWVMSLVLSLLEGKECGFIFSLSGSHWCPIFDFITTAWLIILFVLLLVSSLALVI TIFCGLHRIPVTRLCVAIVLTVMVFLLFGLPYGIYWFLLEWIEGFNYIFLCSFYSVALFLSCVNGCANPIIYFLVG AIRHHRFQRKSLKLLLQQAMQDTPETEECIEMGSSERSREIKNSLEETKSCFDQS

#### **Related Products**

	OX40	
H_OX40 Reporter Cell Line	H_OX40 Reporter DDX35TM 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		
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)		
Cynomolgus IL-4R alpha Protein; His Tag	Human IL-4R alpha Protein; His Tag	
Human IL-4R alpha Protein; mFc Tag		
	IL-31	
Cynomolgus_IL-31RA OSMR Reporter Baf3 Cell Line	H_IL-31 Reporter Cell Line	
Cynomolgus_IL31RA CHO-K1 Cell Line	H_IL31RA CHO-K1 Cell Line	
H_IL31RA HEK-293 Cell Line	H_IL-31RA OSMR Baf3 Cell Line	
Anti-IL31 hIgG1 Antibody(mAb33)	Anti-IL31RA hIgG1 Antibody(NA633)	
Anti-IL31RA hIgG2 Antibody(Nemolizumab)	Anti-OSMR hIgG4 Antibody(Vixarelimab)	
c-I	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)		



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Biotinylated Human c-Kit(CD117) Protein; His-Avi Tag	Biotinylated Human SCF Protein; His-Avi Tag	
Cynomolgus c-Kit(CD117) Protein; His Tag	Human c-Kit(CD117) D4-D5 Protein; His Tag	
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	Tango-H_MRGPRX2 CHO-K1 Cell Line	
Cynomolgus_MRGPRX2 CHO-K1 Cell Line	Cynomolgus_MRGPRX2 HEK-293 Cell Line	
H_MRGPRX2 CHO-K1 Cell Line	H_MRGPRX2 HEK-293 Cell Line	
H_MRGPRX2 RBL-2H3 Cell Line	Mouse_MRGPRX2 CHO-K1 Cell Line	
IGHE(FcεRIα)		
Biotinylated Cynomolgus IgE D2-D4 Protein; His-Avi Tag	Human FCER1A Protein; His Tag	
Human FCER2(CD23) Protein; His Tag	Human IgE D2-D4 Protein; His Tag	

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