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Product Sheet

H_DPP4 HEK-293T Cell Line

Catalog number: GM-C33028

Version 3.3.1.250704

H_DPP4 HEK-293T Cell Line is a clonal stable HEK-293T cell line that constitutively **Description**

expresses the human DPP4 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 Human_DPP4

Gene ID/Uniprot ID P27487

Host Cell HEK-293T

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% CO₂

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	VivaCell/C3110-0500
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
Anti-DPP4 mIgG2b Antibody(begelomab)	Genomeditech/GM-76996AB
GMOne-Step Luciferase Reporter Gene Assay Kit	Genomeditech/GM-040503

Figures

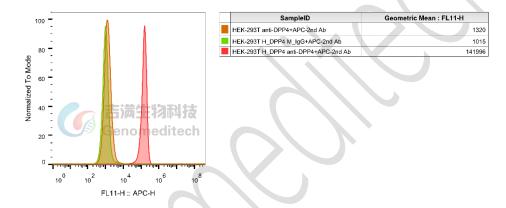


Figure 1 | H_DPP4 HEK-293T Cell Line (Cat. GM-C33028) was determined by flow cytometry using Anti-DPP4 mIgG2b Antibody (begelomab) (Cat. GM-76996AB).

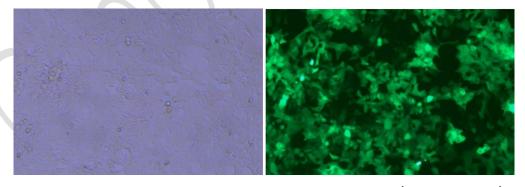
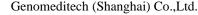


Figure 2 | After Mers-CoV pseudovirus infects the H_DPP4 HEK-293T Cell Line(Cat. GM-C33028), the receptor cells are observed under a fluorescent microscope, with green fluorescence indicating the infection capability of the virus.

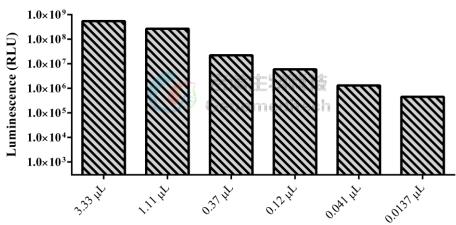


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Pseudotyped Virus volume in 96-wells

Figure 3 | Response to Mers-CoV pseudovirus. The H_DPP4 HEK-293T Cell Line (Cat. GM-C33028) at a concentration of 1E5 cells/well (96-well format) was stimulated with serial dilutions of Mers-CoV pseudovirus (Cat. GM-0220PV148) in assay buffer (DMEM + 1% FBS + 1% P.S) for 48 hours. The firefly luciferase activity was measured using the GMOne-Step Luciferase Reporter Gene Assay Kit (Cat. GM-040503).

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.

- 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).
- 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.
- 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.
- Resuspend cell pellet with the recommended recovery medium. And dispense into appropriate culture dishes.
- Incubate the culture at 37°C in a suitable incubator. A 5% CO₂ 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. a)
- b) Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5E6 cells/mL.

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c) Aliquot 1 mL into each vial.

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.

Remove and discard culture medium.

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

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

layer is dispersed (usually within 30 to 60 seconds at 37°C).

Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. d)

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. e)

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

Incubate cultures at 37°C. g)

Subcultivation Ratio: A subcultivation ratio of 1:5 - 1:8 is recommended

Medium Renewal: Every 1 to 2 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.

Sequence

DPP4 P27487

MKTPWKVLLGLLGAAALVTIITVPVVLLNKGTDDATADSRKTYTLTDYLKNTYRLKLYSLRWISDHEYLYK QENNILVFNAEYGNSSVFLENSTFDEFGHSINDYSISPDGQFILLEYNYVKQWRHSYTASYDIYDLNKRQLITE ERIPNNTQWVTWSPVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIIYNGITDWVYEEEVFSAYSALWWS PNGTFLAYAQFNDTEVPLIEYSFYSDESLQYPKTVRVPYPKAGAVNPTVKFFVVNTDSLSSVTNATSIQITAPA

SMLIGDHYLCDVTWATQERISLQWLRRIQNYSVMDICDYDESSGRWNCLVARQHIEMSTTGWVGRFRPSEP HFTLDGNSFYKIISNEEGYRHICYFQIDKKDCTFITKGTWEVIGIEALTSDYLYYISNEYKGMPGGRNLYKIQLS

DYTKVTCLSCELNPERCQYYSVSFSKEAKYYQLRCSGPGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQ MPSKKLDFIILNETKFWYQMILPPHFDKSKKYPLLLDVYAGPCSQKADTVFRLNWATYLASTENIIVASFDGR

GSGYQGDKIMHAINRRLGTFEVEDQIEAARQFSKMGFVDNKRIAIWGWSYGGYVTSMVLGSGSGVFKCGIA



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 $VAPVSRWEYYDSVYTERYMGLPTPEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADDNVHFQQSAQISKAL\\VDVGVDFQAMWYTDEDHGIASSTAHQHIYTHMSHFIKQCFSLP*$

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