Genomeditech (Shanghai) Co.,Ltd.
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Product Sheet

Cynomolgus_GUCY2C HEK-293 Cell Line

Catalog number: GM-C39498

Version 3.3.1.250117

Description	Cynomolgus_GUCY2C HEK-293 Cell Line is a clonal stable HEK-293 cell line that constitutively expresses the cynomolgus GUCY2C 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_GUCY2C
Gene ID/Uniprot ID	G7PJX5
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_2

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	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
Anti-H_GUCY2C hIgG1 Antibody(Indusatumab)	Genomeditech/GM-28860AB

Figures

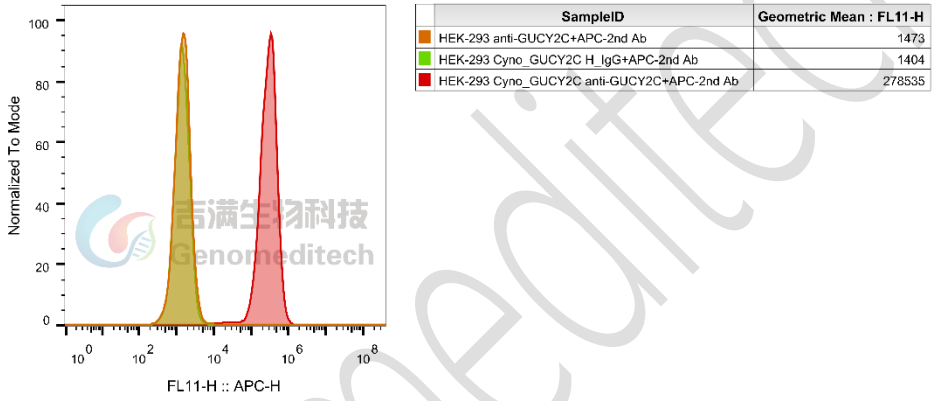

Figure 1 | Cynomolgus_GUCY2C HEK-293 Cell Line (Cat. GM-C39498) was determined by flow cytometry using Anti-H_GUCY2C hIgG1 Antibody(Indusatumab) (Cat. GM-28860AB).

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_2 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 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.

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.

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Sequence

GUCY2C G7PJX5

MKTLLLDLVLWSLLFQPEWLYLTSQVSQNCHNGSYEISVLMMDNSAFAEPLENVEDAVNEGLEIVRGRLQN
AGLNVTVNASFMYSDGLIHNSGDCRSSTCEGLDLLRKISNAKRMGCVLMGPSCTYSTFQMYLDTELSYPMIS
AGSFGLSCDYKETLTRLMSPARKLTYFLVNFWKTNDLPFKTYSWSTSYVYKNGTESEDCFWYLNALEASVS
YFSHELSFKLVLRQDKEFQDILMDHNRKSNVIVMCGDPEFLYKLKGDRAVAEDIVIILVDLFNDQYFEDNVT
APDYMKNVLVLTRSPGNSLLNSSFSRNLSPTKRDFALAYLNGILLFGHMLKTFLENGENITTPKFAHAFRNLT
FEGYDGPVTLDDWGDVDSTMVLLYTSVDTKKYKVLLTYDTHVNQTNPVDMSPTFTWKNSKLPNDITDRGP
QILMIAVFTLTGAVVLLLLVALLMLRKYKKDYELRQKKWSHIPPENIFPLETNETNHVSLKIDDDKRRDTIQR
LRQCKYDKKRVILKDLKHNDGNFTEKQKIELNKLLQIDYYNLTKFYGTVKLDTMIFGVIEYCERGSLREVLN
DTISYPDGTFMDWEFKISVLYDIAKGMSYLHSSKTEVHGRLKSTNCVVDSRMVVKITDFGCNSILPPKKDLW
TAPEHLRQANVSQKGDVYSYGIIAQEIILRKETFYTSSCRDRNEKIFRVENSNGMKPFRPDLFLETAEEKELEV
YLLVKSCWEEDPEKRPDFKKIETTLAKIFGLFHDQKNESYMDTLIRRLQLYSRNLEHLVEERTQLYKAERDRA
DRLNFMLLPRLVVKSLKEKGFVEPELYEEVTIYFSDIVGFTTICKYSTPMEVVDMLNDIYKSFDHIVDHHDVY
KVETIGDAYMVASGLPKRNGNRHAIDIAKMALEILSFMGTFELEHLPGLPIWIRIGVHSGPCAAGVVGIKMPR
YCLFGDTVNTASRMESTGLPLRIHVSGSTIAILKRTECQFLYEVRGETYLKGRGNETTYWLTGMKDQKFNLP
TPPTVENQQRLQAEFSDMIANSLQKRQAAGIRSQKPRRVASYKKGTLEYLQLNTTDKESTYF

Related Products

CLDN18	
Cynomolgus_CLDN18.2-eGFP CHO-K1 Cell Line	H_CLDN18(isoform2)-eGFP 293 Cell Line
H_CLDN18.1-eGFP HEK-293 Cell Line	H_CLDN18.2 MC38 Cell Line
H_CLDN18.2 MKN45 Cell Line	H_CLDN18.2 MKN45 Cell Line(High Expression)
H_CLDN18.2 MKN45 Cell Line(Low Expression)	H_CLDN18.2 MKN45 Cell Line(Medium Expression)
H_CLDN18.2(isoform2) CHO-K1 Cell Line	H_CLDN18.2-eGFP CT-26 Cell Line
Mouse_CLDN18.2-eGFP CHO-K1 Cell Line	Rat_CLDN18.2-eGFP CHO-K1 Cell Line
Rhesus_CLDN18.2-eGFP CHO-K1 Cell Line	
Anti-CLDN18.2 hIgG1 Reference Antibody (IMAB362)	Anti-CLDN18.2 hIgG1 Antibody(LM-102)
Anti-CLDN18.2 hIgG1 Antibody(Zolbetuximab)	
HER3(ERBB3)	
Cynomolgus_ERBB3(HER3) CHO-K1 Cell Line	Cynomolgus_ERBB3(HER3) HEK-293 Cell Line
H_ERBB3(HER3) CHO-K1 Cell Line	H_ERBB3(HER3) HEK-293 Cell Line
H_ERBB3(HER3) MC38 Cell Line	Mouse_HER3(ERBB3) CHO-K1 Cell Line
Anti-ERBB3(HER3) hIgG1 Reference Antibody(Patribio)	Anti-H_ERBB3(HER3) hIgG1 Antibody(Barecetamab)
Human HER3 Protein; His Tag	
TROP2(TACSTD2)	
Cynomolgus_Trop2 CHO-K1 Cell Line	Cynomolgus_TROP2 HEK-293 Cell Line
H_TROP2 CHO-K1 Cell Line	H_TROP2 CT26 Cell Line
H_TROP2 HEK-293 Cell Line	H_TROP2 LLC1 Cell Line
H_TROP2 MC38 Cell Line	

Anti-H_TROP2 hIgG1 Antibody(Datopotamab)	Anti-TROP2 hIgG1 Antibody(Hu2G10-5)
Anti-Trop2 hIgG1 Reference Antibody (Sacbio)	Anti-Trop2 hIgG1 Reference Antibody(Datbio)
Anti-Trop2-DXD ADC(Dar4)[Datopotamab deruxtecan,Dato-DXD]	Anti-Trop2-SN38 ADC(Dar8)[Sacituzumab govitecan]
Human TROP2 Protein; His Tag	
GUCY2C(GC-C)	
H_GUCY2C CHO-K1 Cell Line	H_GUCY2C HEK-293 Cell Line
Anti-H_GUCY2C hIgG1 Antibody(Indusatumab)	
ADC Related Product	
Anti-DXD Mouse IgG1 Antibody (23E21C5)	Anti-DXD Mouse IgG1 Antibody (4A5A12)
Anti-Dxd Mouse IgG2a Antibody (17D6A4)	Anti-Eribulin Mouse IgG2a Antibody (10F8G4)
Anti-MMAE Mouse IgG1 Antibody (11C10E3)	Anti-MMAE Mouse IgG2a Antibody (17A1K11)
Anti-MMAE Mouse IgG2a Antibody (8F6A3)	Mouse anti Human IgG-MMAE(Dar4)
Human IgG1 Isotype-DXD (Dar8)	Human IgG1 Isotype-Eribulin (Dar4)
Human IgG1 Isotype-MMAE (Dar4)	
Recombinant DT3C Protein	

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