Genomeditech (Shanghai) Co.,Ltd.
Order: +86 021-68455258/50432826/50432825
Toll-free: +86 400 627 9288
Email: service@genomeditech.com

Product Sheet

H_HER2 HER3 MC38 Cell Line

Catalog number: GM-C19496

Version 3.3.1.260610

Description	H_HER2 HER3 MC38 Cell Line is a clonal stable MC38 cell line that constitutively expresses the human HER2 and HER3 genes, 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_HER2-C-3Flag & Human_HER3
Gene ID/Uniprot ID	P04626-1 & P21860-1
Host Cell	MC38

Recovery Medium	DMEM+10% FBS+1% P.S
Growth medium	DMEM+10% FBS+1% P.S+2 μg/mL Blasticidin+2.5 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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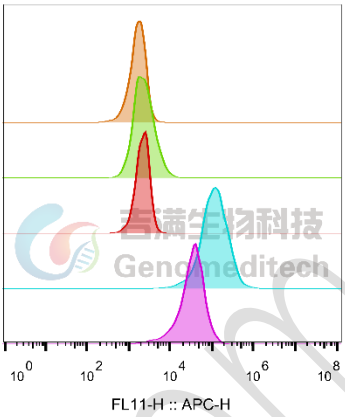
Materials

Reagent	Manufacturer/Catalogue No.
DMEM	VivaCell/C3110-0500
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Blasticidin	Genomeditech/GM-040404
Puromycin	Genomeditech/GM-040401
Anti-HER2 hIgG1 Reference Antibody(Marbio)	Genomeditech/GM-87130MAB
Barecetamab (anti-ERBB3)	aladdin/Ab182928

Figures



SampleID	Geometric Mean : FL11-H
MC38 anti-HER2+APC-2nd Ab	1625
MC38 anti-HER3+APC-2nd Ab	2353
MC38 H_HER2 HER3 H_IgG+APC-2nd Ab	2137
MC38 H_HER2 HER3 anti-HER2+APC-2nd Ab	111496
MC38 H_HER2 HER3 anti-HER3+APC-2nd Ab	31830

Figure 1 | H_HER2 HER3 MC38 Cell Line (Cat. GM-C19496) was determined by flow cytometry using Anti-Her2 hIgG1 Reference Antibody(Marbio) (Cat. GM-87130MAB) and Barecetamab (anti-ERBB3) (aladdin/Ab182928).

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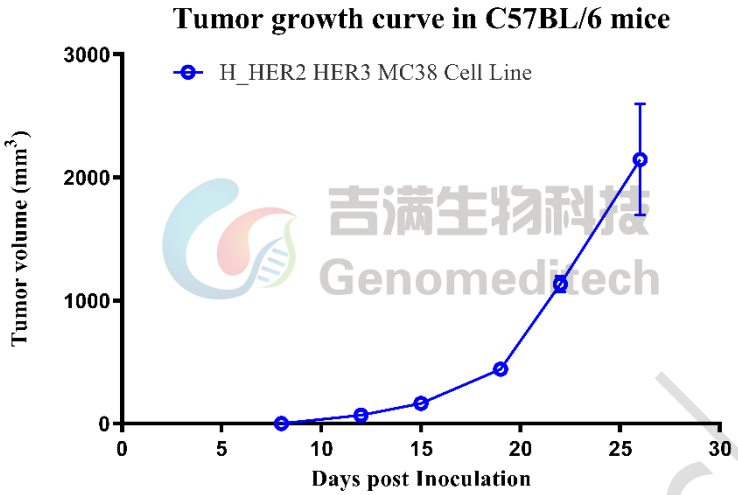

Figure 2 | Tumor growth curves of H_HER2 HER3 MC38 in C57BL/6 mice. H_HER2 HER3 MC38 cells (1×10^6 per mouse) were subcutaneously inoculated into C57BL/6 mice (female, 8 weeks old, n = 3). Tumor volume was measured twice per week and is presented as mean ± SEM.

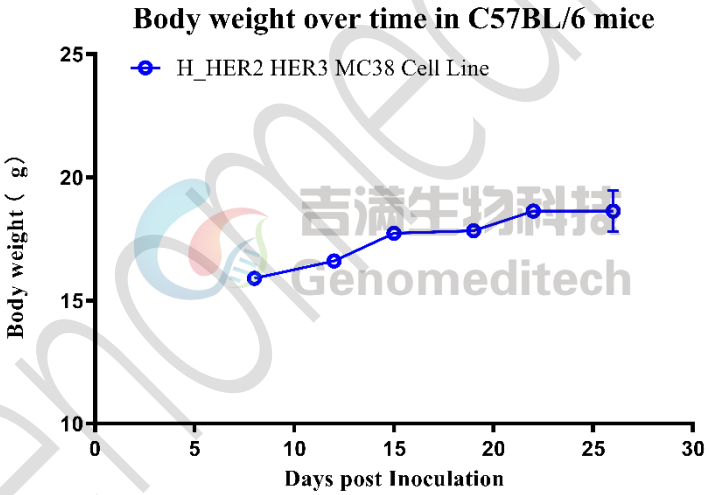

Figure 3 | Body weight changes after implantation of H_HER2 HER3 MC38 in C57BL/6 mice. Under the same conditions, body weight was measured twice per week and is presented as mean ± SEM.

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.
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+2 μg/mL Blasticidin+2.5 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) Remove and discard culture medium.
b) 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 layer is dispersed (usually within 30 to 60 seconds at 37°C).
d) 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.
e) 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.

Subcultivation Ratio: A subcultivation ratio of 1:4 - 1:5 is recommended

Medium Renewal: Every 2 to 3 days

Notes

a) After the stabilization of the cell condition, there will be fewer dead cells post-passage, the cell growth rate will tend to stabilize, cell morphology will become uniform, and the cells will appear robust.

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Sequence

HER2(ERBB2)-3Flag P04626-1

MELAALCRWGLLLALLPPGAASTQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVVQGNLELTYLPTNASL
SFLQDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLR
SLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKGSRCWGESSEDCQSLT
RTVCAGGCARCKGPLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFESMPNPEGR
YTFGASCVTACPYNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSA
NIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPDLSVFQNLQVIRGRI
LHNGAYSLTLQGLGISWLGLRSLRELGSGLALIHHNTHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGE
GLACHQLCARGHCWGPGPTQCVNCSQFLRGQECVEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFG
PEADQCVACAHYKDPPFCVARCPSGVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQRASP
LTSIISAVVGILLVVVLGVVFGILIKRRQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVK
VLGSGAFGTVYKGIWIPDGENVKIPVAIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLLGICLTSTVQLV
TQLMPYGCLLDHVRENRGRLGSQDLLNWCMQIAKGMSYLEDVRLVHRDLAARNVLVKSPNHVKITDFGLA
RLLDIDETEYHADGGKVPIKWMALESILRRRFTHQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGE
RLPQPPICTIDVYMIMVKCWMIDSECRPRFRELVSEFSRMARDPQRFVVIQNEDLGPASPLDSTFYRSLLEDDD
MGDLVDAEEYLVPQQGFFCPDPAPGAGGMVHHRHRSSSTRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDV
FDGDLGMGAAKGLQSLPTHDPSPLQRYSEDPTVPLPSETDGYVAPLTCSPQPEYVNQPDVRPQPPSPREGPLP
AARPAGATLERPKTLSPGKNGVVKDVFAFGGAVENPEYLTPQGGAAPQPHPPPAFSPAFDNLYYWDQDPPE
RGAPPSTFKGTPTAENPEYLGLDVPVLESRTRPGPSGSMDYKDHDGDYKDHDIDYKDDDDK

ERBB3 P21860-1

MRANDALQVLGLLFSLARGSEVGNSQAVCPGTLNGLSVTGDAENQYQTLYKLYERCEVVMGNLEIVLTGH
NADLSFLQWIREVTGYVLVAMNEFSTLPLPNLRVVRGTQVYDGKFAIFVMLNYNTNSSHALRQLRLTQLTEI
LSGGVYIEKNDKLCHMDTIDWRDIVRDRDAEIVVKDNGRSCPPCHEVCKGRCWGPGSEDCQTLTKTICAPQC
NGHCFGPNPNQCCHDECAGGCSGPQDTDCFACRHFNDSGACVPRCPQPLVYNKLTFQLEPNPHTKYQYGGV
CVASCPHNFVVDQTSCVRACPPDKMEVDKNGLKMCEPCGGLCPKACEGTGSGSRFQTVDSSNIDGFVNCTKI
LGNLDFLITGLNGDPWHKIPALDPEKLNVFRTVREITGYLNIQSWPPHMHNFSVFSNLTTIGGRSLYNRGFSLL
IMKNLNVTSLGFRSLKEISAGRIYISANRQLCYHHSLNWTKVLRGPTEERLDIKHNRPRRDCVAEGKVCDPLC
SSGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLNGEPREFAHEAECFSCHPECQPMEGTATCNGSGSDTCAQ
CAHFRDGPHCVSSCPHGVLGAKGPIYKYPDVQNECRPCHENCTQGCKGPELQDCLGQTLVLIGKTHLTMAL
TVIAGLVVIFMMLGGTFLYWRGRRIQNKRAMRRYLERGESIEPLDPSEKANKVLARIFKETELRKLKVLGSG
VFGTVHKGVWIPEGESIKIPVCIKVIEDKSGRQSFQAVTDHMLAIGSLDHAHIVRLLGLCPGSSLQLVTQYLPL
GSLLDHVRQHRGALGPQLLLNWGVQIAKGMYYLEEHGMVHRNLAARNVLLKSPSQVQVADFGVADLLPPD
DKQLLYSEAKTPIKWMALESIHFGKYTHQSDVWSYGVTVWELMTFGAEPYAGLRLAEVPDLLEKGERLAQP
QICTIDVYMVMVKCWMIDENIRPTFKELANEFTRMARDPPRYLVIKRESGPGIAPGPEPHGLTNKKLEEVELE
PELDLDLDLEAEEDNLATTTLGSALSLPVGTLNRPRGSQSLLSPSSGYMPMNQGNLGESCQESAVSGSSERCP
RPVSLHPMPRGCLASESSEGHVTGSEAELQEKVSMCRSRSRSRSPRPRGDSAYHSQRHSLLTPVTPLSPPGLEE
EDVNGYVMPDTHLKGTPSSREGTLSSVGLSSVLGTEEEDEDEEYEYMNRRRRHSPPHPPRPSSLEELGYEYM
DVGSDLSASLGSTQSCPLHPVPIMPTAGTTPDEDYEYMNRQRDGGGPGGDYAAMGACPASEQGYEEMRAFQ
GPGHQAPHVHYARLKTLRSLEATDSAFDNPDYWHSRLFPKANAQRT

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Cynomolgus_EGFR CHO-K1 Cell Line	Cynomolgus_ERBB3(HER3) CHO-K1 Cell Line
Cynomolgus_ERBB3(HER3) HEK-293 Cell Line	Cynomolgus_HER2(ERBB2) CHO-K1 Cell Line
H_EGFR CHO-K1 Cell Line	H_EGFR HEK-293 Cell Line
H_EGFRvIII CHO-K1 Cell Line	H_ERBB3(HER3) CHO-K1 Cell Line
H_ERBB3(HER3) HEK-293 Cell Line	H_ERBB3(HER3) MC38 Cell Line
H_HER2 EMT6 Cell Line	H_HER2 MCF-7 Cell Line
H_HER2(ERBB2) CHO-K1 Cell Line	H_HER2(ERBB2) CT26 Cell Line
H_HER2(ERBB2) LLC1 Cell Line	H_HER2(ERBB2) MC38 Cell Line
Mouse_HER3(ERBB3) CHO-K1 Cell Line	H_EGFR LGR5 CT26 Cell Line
H_EGFR LGR5 HEK-293 Cell Line	
Anti-EGFR hIgG1 Reference Antibody (Cetbio)	Anti-EGFR hIgG1 Reference Antibody (Necbio)
Anti-ERBB3(HER3) hIgG1 Reference Antibody(Patribio)	Anti-H_EGFR hIgG1 Antibody(Necitumumab)
Anti-H_ERBB3(HER3) hIgG1 Antibody(Barecetamab)	Anti-H_HER2 hIgG1 Antibody(Margetuximab)
Anti-HER2 hIgG1 Reference Antibody(Marbio)	Anti-HER2 hIgG1 Reference Antibody(Trasbio)
Biotinylated Cynomolgus EGFR Protein; His-Avi Tag	Biotinylated Human EGFR Protein; His-Avi Tag
Biotinylated Human HER3 Protein; His-Avi Tag	Cynomolgus HER2 Protein; His Tag
Human EGFR Protein; hFc Tag	Human EGFR Protein; His Tag
Human HER2 Protein; hFc Tag	Human HER2 Protein; His Tag
Human HER3 Protein; hFc Tag	Human HER3 Protein; His Tag
Mouse HER3 Protein; His Tag	

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