

# Product Sheet

## H\_HER2 HER3 MC38 Cell Line

Catalog number: GM-C19496

Version 3.3.1.250107

<b>Description</b>	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.
<b>Quantity</b>	5E6 Cells per vial, 1 mL
<b>Product Format</b>	3 vials of frozen cells
<b>Shipping</b>	Shipped on dry ice
<b>Storage Conditions</b>	Liquid nitrogen immediately upon receipt
<b>Target</b>	Human_HER2-C-3Flag & Human_HER3
<b>Gene ID/Uniprot ID</b>	P04626-1 & P21860-1
<b>Host Cell</b>	MC38
<b>Recovery Medium</b>	DMEM+10% FBS+1% P.S
<b>Growth medium</b>	DMEM+10% FBS+1% P.S+2 µg/mL Blasticidin+2.5 µg/mL Puromycin
<b>Note</b>	None
<b>Freezing Medium</b>	90% FBS+10% DMSO
<b>Growth properties</b>	Adherent
<b>Growth Conditions</b>	37°C, 5% CO <sub>2</sub>
<b>Mycoplasma Testing</b>	The cell line has been screened to confirm the absence of Mycoplasma species.
<b>Safety considerations</b>	Biosafety Level 2
<b>Note</b>	It is recommended to expand the cell culture and store a minimum of 10 vials at an early passage for potential future use.

## Materials

Reagent	Manufacturer/Catalogue No.
DMEM	VivaCell/C31110-0500
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
Blasticidin	Genomeditech/GM-040404
Puromycin	Genomeditech/GM-040401
Anti-H_HER2 hIgG1 Antibody(Margetuximab)	Genomeditech/GM-49468AB
Anti-H_ERBB3(HER3) hIgG1 Antibody(Barecetamab)	Genomeditech/GM-28858AB

## Figures

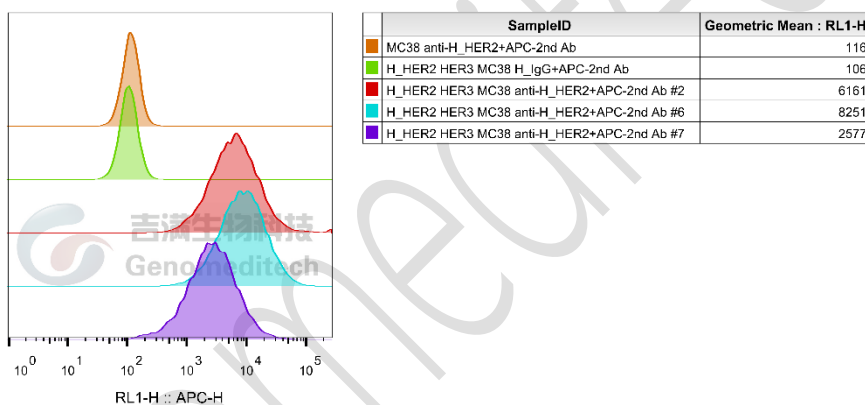


Figure 1 | H\_HER2 HER3 MC38 Cell Line (Cat. GM-C19496) was determined by flow cytometry using Anti-H\_HER2 hIgG1 Antibody(Margetuximab) (Cat. [GM-49468AB](#)).

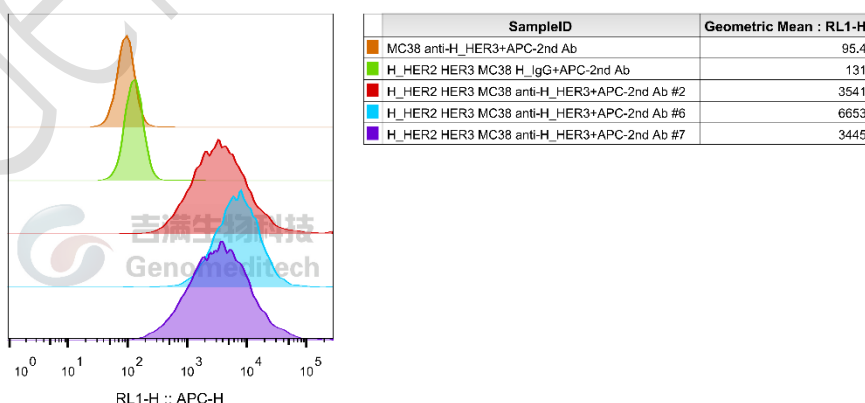


Figure 2 | H\_HER2 HER3 MC38 Cell Line (Cat. GM-C19496) was determined by flow cytometry using Anti-H\_ERBB3(HER3) hIgG1 Antibody(Barecetamab) (Cat. [GM-28858AB](#)).

## 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  $-70^{\circ}\text{C}$ . Storage at  $-70^{\circ}\text{C}$  will result in loss of viability.

- a) Thaw the vial by gentle agitation in a  $37^{\circ}\text{C}$  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  $176 \times g$  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  $37^{\circ}\text{C}$  in a suitable incubator. A 5%  $\text{CO}_2$  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  $176 \times g$  for 3 minutes to collect cells.
- b) Resuspend the cells in pre-cooled freezing medium and adjust the cell density to  $5 \times 10^6$  cells/mL.
- c) Aliquot 1 mL into each vial.
- d) Place the vial in a controlled-rate freezing container and store at  $-80^{\circ}\text{C}$  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  $\mu\text{g}/\text{mL}$  Blasticidin+2.5  $\mu\text{g}/\text{mL}$  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  $37^{\circ}\text{C}$ ).
- 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  $37^{\circ}\text{C}$  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  $37^{\circ}\text{C}$ .

**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.

## Sequence

HER2(ERBB2) -3Flag [P04626-1](#)

MELAALCRWGLLLALLPPGAASTQVCTGTDMLKRLPASPETHLDMLRHL YQGCQVVQGNLELTYLPTNASL  
SFLQDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLR  
SLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKGSRWGESSEDCQSLT  
RTVCAGGCARCKGPLPTDCHEQCAAGCTGPKHSDCLACLFHNHSGICELHCPALVTYNTDTFESMPNPEGR  
YTFGASCVTACPYNYLSTDVGSCTLVCPHNLQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAV TSA  
NIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISA WPDSLPLDSV FQNLQVIRGRI  
LHNGAYSLTLQGLGISWLGLRSLRELGSGLALIHNTHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGE  
GLACHQLCARGHCWGPPTQCVNCSQFLRGQECVEECRVLQGLPREYV NARHCLPCHPECQPQNGSVTCFG  
PEADQCVACAHYKDPFPCVARCPGKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGC PAEQRASP  
LTSIISAVV GILLVVVLGVVFGILIKRRQKIRKYTMRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVK  
VLGSGAFGTVYKGIWIPDGENVKIPVAIKV LRENTSPKANKEILDEAYVMAGV GSPYVSRLLGICLTSTVQLV  
TQLMPYGCLLDHVREN RGLGSQDLLN WCMQIAKGMSYLEDVRLVHRDLAARNVLVKSPNHVKITDFGLA  
RLLDIDETEYHADGGKVPKWMALESILRRRFTHQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGE  
RLPQPPICTIDVYMIMVKCWMIDSECRPRFREL VSEFSRMARDPQRFVVIQNE DLGPASPLDSTFYRS LLEDD  
MGDLVDAE EYLVPQQGFPCDPAPGAGGMVHHRHRSSTRSGGDLTLGLEPSEEEAPRSPLAPSEGAGSDV  
FDGDLGMGA AKGLQSLPTHDPSP LQRYSEDPTVPLPSETDGYVAPLTCSPQPEYVNQPDVRPQPPSPREGPLP  
AARPAGATLERPKT LSPGKNGVVKDVFAFGGAVENPEYLTPQGAAPQPHPPAFSPA FDNLYYWDQDPPE  
RGAPPSTFKGTPTAENPEYLG LDVPVLESRTRPGPSGSM DYKDHDGDYKDHDIDYKDDDDK

ERBB3 [P21860-1](#)

MRANDALQVLGLL FSLARGSEVGNSQAVCPGTLNGLSVTGDAENQYQ TLYKLYERCEVVMGNLEIVLTGH  
NADLSFLQWIREVTGYVLVAMNEFSTLPLPNLRVVRGTQVYDGKFAIFVMLNYNTNSSHALRQLRLTQLTEI  
LSGGVYIEKNDKLCHMDTIDWRDIVRDRDAEIVVKDNGRSCPPCHEVCKGRCWGP GSEDCQTLTKTICAPQC  
NGHCFGNPNQCCHDECAGGCSGPQDTCFACRHFNDSGACVPRCPQLVYNKLT FQLEPNPHTKYQYGGV  
CVASCPHNFVVDQTSV RACPPDKMEVDKNGLKMCEPCGGLCPKACEGTGSGSRFQTV DSSNIDGFVNCTKI  
LGNLDFLITGLNGDPWHKIPALDPEKLVFRTVREITGYLNIQSWPPHMHNFVFSNLTTIGGRSLYNRGFSLL  
IMKNLNVTS LGFRSLKEISAGRIYISANRQLCYHHSLNWTKVLRGPTEERLDIKHNRPRRDCVAEGKVC DPLC  
SSGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLNGEPREFAHEAECFSCHPECQPMEGTATCNGSGSDTCAQ  
CAHFRDGP HCVSSCPHGVLGAKGPIYKYPDVQNECRPCHENCTQGCKGPELQDCLGQTLVLIGKTHLTMAL  
TVIAGLVVIFMMLGGTFLYWRGRRIQNKRAMRRYLERGESIEPLDPSEKANKVLARIFKETELRKLKVLGSG  
VFGTVHKGVWIPEGESIKIPVCIKVIEDKSGRQSFQAVTDHMLAIGSLDHAHIVRLLGLCPGSSLQLVTQYLPL

GSLLDHVRQHRGALGPQLLLNWGVQIAKGMYYLEEHGMVHRNLAARNVLLKSPSQVQVADFGVADLLPPD  
 DKQLLYSEAKTPIKWMALESIHFGKYTHQSDVWSYGVTVWELMTFGAEPYAGLRLAEVPLLEKGERLAQP  
 QICTIDVYMMVMVKCWMIDENIRPTFKELANEFTRMARDPPRYLVIKRESGPGIAPGPEPHGLTNKKLEVELE  
 PELDLDLLEAEEDNLATTTLSALSPLVGTNRPRGSQSLLSPSSGYMPMNQGNLGESCQESAVSGSSERC  
 RPVSLHPMPRGCLASESSEGHVTGSEAELEKQVSMCRSRSRSPRPRGDSAYHSQRHSLTPTPLSPGLEE  
 EDVNGYVMPDTHLKGTPSSREGTLSSVGLSSVLGTEEEDEDEEYEMNRRRRHSPHPPPRPSLEELGYEYM  
 DVGSDLSASLGSTQSCPLHPVPIMPTAGTTPDEDYEYMNQRDGGGPGGDYAAMGACPAEQGYEEMRAFQ  
 GPGHQAPHVHYARLKTLSLEATDSAFDNPDYWHSRLFPKANAQRT

## Related Products

HER3(ERBB3)	
<a href="#">Cynomolgus_ERBB3(HER3) CHO-K1 Cell Line</a>	<a href="#">Cynomolgus_ERBB3(HER3) HEK-293 Cell Line</a>
<a href="#">H_ERBB3(HER3) CHO-K1 Cell Line</a>	<a href="#">H_ERBB3(HER3) HEK-293 Cell Line</a>
<a href="#">H_ERBB3(HER3) MC38 Cell Line</a>	<a href="#">Mouse_HER3(ERBB3) CHO-K1 Cell Line</a>
<a href="#">Anti-ERBB3(HER3) hIgG1 Reference Antibody(Patibio)</a>	<a href="#">Anti-H_ERBB3(HER3) hIgG1 Antibody(Barecetamab)</a>
<a href="#">Human HER3 Protein; His Tag</a>	
NECTIN4	
<a href="#">H_NECTIN4(nectin-4) CHO-K1 Cell Line</a>	<a href="#">Cynomolgus_Nectin4 CHO-K1 Cell Line</a>
<a href="#">H_NECTIN4 CT26 Cell Line</a>	<a href="#">H_NECTIN4 HEK-293 Cell Line</a>
<a href="#">H_NECTIN4 LLC1 Cell Line</a>	<a href="#">H_NECTIN4 MC38 Cell Line</a>
<a href="#">Anti-H_Nectin4 hIgG1 Antibody(Enfortumab)</a>	<a href="#">Anti-Nectin4 hIgG1 Reference Antibody (Enfobio)</a>
<a href="#">Biotinylated Cynomolgus Nectin-4 Protein; His-Avi Tag</a>	<a href="#">Biotinylated Human Nectin-4 Protein; His-Avi Tag</a>
<a href="#">Biotinylated Mouse Nectin-4 Protein; His-Avi Tag</a>	<a href="#">Cynomolgus Nectin-4 Protein; His Tag</a>
<a href="#">Human Nectin-4 Protein; His Tag</a>	
SLC39A6 (LIV1)	
<a href="#">Cynomolgus_SLC39A6 CHO-K1 Cell Line</a>	<a href="#">H_SLC39A6 CHO-K1 Cell Line</a>
<a href="#">H_SLC39A6 HEK-293 Cell Line</a>	<a href="#">H_SLC39A6 LLC1 Cell Line</a>
<a href="#">H_SLC39A6 MC38 Cell Line</a>	
<a href="#">Anti-H_SLC39A6 hIgG1 Antibody(Ladiratumumab)</a>	<a href="#">Anti-SLC39A6 hIgG1 Reference Antibody (Ladbio)</a>
<a href="#">Anti-SLC39A6-MMAE ADC(Dar4)[Ladiratumumab vedotin]</a>	
HER2(ERBB2)	
<a href="#">H_HER2 HER4 Reporter HEK-293 Cell Line</a>	<a href="#">Cynomolgus_HER2(ERBB2) CHO-K1 Cell Line</a>
<a href="#">H_HER2 EMT6 Cell Line</a>	<a href="#">H_HER2 MCF-7 Cell Line</a>
<a href="#">H_HER2(ERBB2) CHO-K1 Cell Line</a>	<a href="#">H_HER2(ERBB2) CT26 Cell Line</a>
<a href="#">H_HER2(ERBB2) LLC1 Cell Line</a>	<a href="#">H_HER2(ERBB2) MC38 Cell Line</a>
<a href="#">Anti-H_HER2 hIgG1 Antibody(Margetuximab)</a>	<a href="#">Anti-HER2 hIgG1 Reference Antibody(Marbio)</a>
<a href="#">Anti-HER2 hIgG1 Reference Antibody(Trasbio)</a>	
<a href="#">Anti-HER2-DM1 ADC(Dar4)[Trastuzumab emtansine,T-DM1]</a>	<a href="#">Anti-HER2-DXD ADC(Dar8)[Trastuzumab Deruxtecan]</a>
<a href="#">Cynomolgus HER2 Protein; His Tag</a>	<a href="#">Human HER2 Protein; His Tag</a>
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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