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# **Product Sheet**

## **H\_HER2 MCF-7 Cell Line**

Catalog number: GM-C26434

Version 3.3.1.250108

H\_HER2 MCF-7 Cell Line is a clonal stable MCF-7 cell line that constitutively expresses

the human HER2 gene, constructed using lentiviral technology.

**Quantity** 5E6 Cells per vial,1 mL

**Product Format** 3 vials of frozen cells

**Shipping** Shipped on dry ice

Storage Conditions Liquid nitrogen immediately upon receipt

Target Human\_HER2 & C-3Flag

Gene ID/Uniprot ID P04626-1

Host Cell MCF-7

**Recovery Medium** MEM(Gibco)+20% FBS+1% P.S+0.01 mg/mL Bovine Insulin

Growth medium MEM(Gibco)+10% FBS+1% P.S+0.01 mg/mL Bovine Insulin+0.75 μg/mL Puromycin

Cells should be cultured using Gibco/11095080 MEM medium or Growth medium from **Note** 

Genomeditech. The serum should be Cegrogen biotech/A0500-3010 or sourced from Gibco.

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.  |
|--|-----------------------------|
| MEM                                      | gibco/11095-080             |
| Fetal Bovine Serum                       | Cegrogen biotech/A0500-3010 |
| Insulin(From Bovine)                     | YEASEN/40107ES25            |
| Puromycin                                | Genomeditech/GM-040401      |
| Anti-H_HER2 hIgG1 Antibody(Margetuximab) | Genomeditech/GM-49468AB     |

### **Figures**

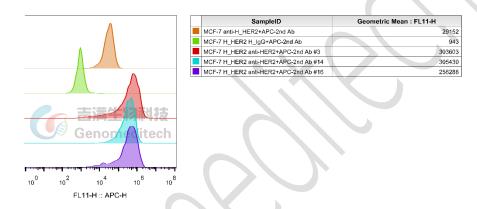


Figure 1 | H\_HER2 MCF-7 Cell Line (Cat. GM-C26434) was determined by flow cytometry using Anti-H\_HER2 hIgG1 Antibody(Margetuximab) (Cat. GM-49468AB).

# **Cell Recovery**

Recovery Medium: MEM(Gibco)+20% FBS+1% P.S+0.01 mg/mL Bovine Insulin

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

- 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: MEM(Gibco)+10% FBS+1% P.S+0.01 mg/mL Bovine Insulin+0.75 µg/mL Puromycin

For the first 1 to 3 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 1 to 2 minutes 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 1:2 - 1:3 is recommended

Medium Renewal: Every 3 to 5 days

#### **Notes**

- a) After cell resuscitation, the first few generations exhibit slow adherence, which is a normal phenomenon. Adherent cells can be observed 2 3 days after resuscitation. Cells exhibit density dependence, growing very slowly at low densities. Once their condition has stabilized, their growth rate tends to become consistent.
- b) Due to the potentially long subcultivation intervals after the initial resuscitation, it is necessary to add fresh medium or replace it entirely if no handling occurs for 2 3 days.
- c) During cell culture, some floating cells may be present. Viable suspended cells can be re-cultured in the flask by centrifugation and re-seeding (specifically observe during passaging; if the proportion is small, they can be discarded directly).
- d) Cells should be cultured using Gibco/11095080 MEM medium or complete media from Geomeditech. Serum should be the same as specified in the instructions or use Gibco serum.



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### **Sequence**

HER2(ERBB2) -3Flag P04626-1

MELAALCRWGLLLALLPPGAASTQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVVQGNLELTYLPTNASL SFLQDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLR SLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKGSRCWGESSEDCQSLT RTVCAGGCARCKGPLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACPYNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSA NIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPDLSVFQNLQVIRGRI LHNGAYSLTLQGLGISWLGLRSLRELGSGLALIHHNTHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCARGHCWGPGPTQCVNCSQFLRGQECVEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFG PEADQCVACAHYKDPFCVARCPSGVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQRASP LTSIISAVVGILLVVVLGVVFGILIKRRQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVK VLGSGAFGTVYKGIWIPDGENVKIPVAIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLLGICLTSTVQLV TQLMPYGCLLDHVRENRGRLGSQDLLNWCMQIAKGMSYLEDVRLVHRDLAARNVLVKSPNHVKITDFGLA RLLDIDETEYHADGGKVPIKWMALESILRRRFTHQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGE RLPOPPICTIDVYMIMVKCWMIDSECRPRFRELVSEFSRMARDPORFVVIQNEDLGPASPLDSTFYRSLLEDDDMGDLVDAEEYLVPQQGFFCPDPAPGAGGMVHHRHRSSSTRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDV FDGDLGMGAAKGLOSLPTHDPSPLORYSEDPTVPLPSETDGYVAPLTCSPOPEYVNOPDVRPOPPSPREGPLP AARPAGATLERPKTLSPGKNGVVKDVFAFGGAVENPEYLTPQGGAAPQPHPPPAFSPAFDNLYYWDQDPPE RGAPPSTFKGTPTAENPEYLGLDVPVLESRTRPGPSGSMDYKDHDGDYKDHDIDYKDDDDK

#### **Related Products**

| vmna  | EDDDA)   |
|---|--|
| 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                           |  |
| NECTIN4   |  |
| H_NECTIN4(nectin-4) CHO-K1 Cell Line                  | Cynomolgus_Nectin4 CHO-K1 Cell Line              |
| H_NECTIN4 CT26 Cell Line                              | H_NECTIN4 HEK-293 Cell Line                      |
| H_NECTIN4 LLC1 Cell Line                              | H_NECTIN4 MC38 Cell Line                         |
| Anti-H_Nectin4 hIgG1 Antibody(Enfortumab)             | Anti-Nectin4 hIgG1 Reference Antibody (Enfobio)  |
| Biotinylated Cynomolgus Nectin-4 Protein; His-Avi Tag | Biotinylated Human Nectin-4 Protein; His-Avi Tag |
| Biotinylated Mouse Nectin-4 Protein; His-Avi Tag      | Cynomolgus Nectin-4 Protein; His Tag             |
| Human Nectin-4 Protein; His Tag                       |  |
| SLC39A6 (LIV1)  |  |
| Cynomolgus_SLC39A6 CHO-K1 Cell Line                   | H_SLC39A6 CHO-K1 Cell Line                       |



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| H_SLC39A6 HEK-293 Cell Line                          | H_SLC39A6 LLC1 Cell Line                          |
|--|---|
| H_SLC39A6 MC38 Cell Line                             | II_BEES/IN BEET CON BINC                          |
|  | Anti CI C20 A 6 hInCl Defenence Antibody (Ledhie) |
| Anti-H_SLC39A6 hIgG1 Antibody(Ladiratuzumab)         | Anti-SLC39A6 hIgG1 Reference Antibody (Ladbio)    |
| Anti-SLC39A6-MMAE ADC(Dar4)[Ladiratuzumab vedotin]   |   |
| HER2(ERBB2)  |   |
| H_HER2 HER4 Reporter HEK-293 Cell Line               | Cynomolgus_HER2(ERBB2) CHO-K1 Cell Line           |
| H_HER2 EMT6 Cell Line                                | H_HER2 HER3 MC38 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                      |
| Anti-H_HER2 hIgG1 Antibody(Margetuximab)             | Anti-HER2 hIgG1 Reference Antibody(Marbio)        |
| Anti-HER2 hIgG1 Reference Antibody(Trasbio)          |   |
| Anti-HER2-DM1 ADC(Dar4)[Trastuzumab emtansine,T-DM1] | Anti-HER2-DXD ADC(Dar8)[Trastuzumab Deruxtecan]   |
| Cynomolgus HER2 Protein; His Tag                     | Human HER2 Protein; His Tag                       |
| 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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