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# Product Sheet

## Mouse_CCR6 HEK-293 Cell Line

Catalog number: GM-C48302

Version 4.0.26.1013

## Specifications

| | |
|---|---|
| **Description** | Mouse_CCR6 HEK-293 Cell Line is a clonal stable HEK-293 cell line that constitutively expresses the Mouse CCR6 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** | Mouse_CCR6 |
| **Gene ID/Uniprot ID** | O54689 |
| **Host Cell** | HEK-293 Cell Line |
| **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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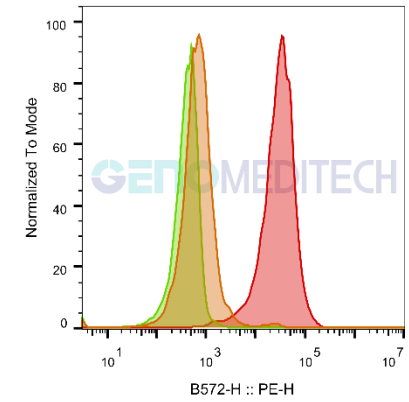
## Materials

| Reagent | Manufacturer/Catalogue No. |
|---|---|
| DMEM | Gibco/C11995500BT |
| Fetal Bovine Serum | ExCell/FSP500 |
| Pen/Strep | Thermo/15140-122 |
| Puromycin | Genomeditech/GM-040401 |
| Human/Mouse CCR6 PE-conjugated Antibody | R&D Systems/FAB590P |
| Countess 3 Automated Cell Counter | ThermoFisher/A49891 |
| NovoCyte Flow Cytometer | Agilent/NovoCyte 2060R |

## Data

### Expression




| | SampleID | Geometric Mean : B572-H |
|---|---|---|
| | HEK-293 Human/Mouse CCR6 PE-conjuggated Ab | 683 |
| | HEK-293 Mouse_CCR6 PE R_IgG Ab | 390 |
| | HEK-293 Mouse_CCR6 Human/Mouse CCR6 PE-conjuggated Ab | 27673 |

Mouse_CCR6 HEK-293 Cell Line (Cat. GM-C48302) was determined by flow cytometry using Human/Mouse CCR6 PE-conjugated Antibody (R&D Systems/FAB590P).

## 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+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.

## Sequence

Mouse_CCR6 O54689

MNSTESYFGTDDYDNTEYYSIPPDHGPCSLEEVRNFTKVFVPIAYSLICVFGLLGNIMVVMTFAFYKKARSMTDV
YLLNMAITDILFVLTLPFWAVTHATNTWVFSDALCKLMKGTYAVNFNCGMLLLACISMDRYIAIVQATKSFRVR
SRTLTHSKVICVAVWFISIIISSPTFIFNKKYELQDRDVCEPRYRSVSEPITWKLLGMGLELFFGFFTPLLFMVFCYL
FIIKTLVQAQNSKRHRAIRVVIAVVLVFLACQIPHNMVLLVTAVNTGKVGRSCSTEKVLAYTRNVAEVLAFLHCC
LNPVLYAFIGQKFRNYFMKIMKDVWCMRRKNKMPGFLCARVYSESYISRQTSETVENDNASSFTM

## Related Products

| CCR6 | |
|---|---|
| Cynomolgus_CCR6 CHO-K1 Cell Line | H_CCR6 CHO-K1 Cell Line |

## License Agreement

By purchasing and using this cell line product, the user voluntarily agrees to accept and abide by the following policies:

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