

HEK293/Human GUCY2C Stable Cell Line Data Sheet

HEK293/Human GUCY2C Stable Cell Line

| Catalog No. | Size |
|-------------|--|
| CHEK-ATP182 | 2 × (1 vial contains ~5×10 ⁶ cells) |

• Description

The HEK293/Human GUCY2C Stable Cell Line was engineered to express the receptor full length human GUCY2C (Gene ID: 2984), used to mimic cancer target cells. Surface expression of human GUCY2C was confirmed by flow cytometry.

• Application

- Useful for cell-based GUCY2C binding assay.

• Cell Line Profile

| | |
|------------------------|--------------------------------------|
| Cell line | HEK293/Human GUCY2C Stable Cell Line |
| Host Cell | HEK293 |
| Property | Adherent |
| Complete Growth Medium | DMEM + 10% FBS |
| Selection Marker | Puromycin (2 µg/mL) |
| Incubation | 37°C with 5% CO ₂ |
| Doubling Time | 22-24 hours |
| Transduction Technique | Lentivirus |

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• *Materials Required for Cell Culture*

- DMEM medium (Gibco, Cat.No.11965-092)
- Fetal bovine serum (CellMax, Cat.No.SA211.02)
- Puromycin (InvivoGen, Cat.No.ant-pr-5b)
- 0.25% Trypsin-EDTA (1X), Phenol Red (Gibco, Cat.No.25200-056)
- Penicillin-Streptomycin (Gibco, Cat.No.15140-122)
- Phosphate Buffered Saline (1X) (HyClone, Cat.No.SH30256.01)
- Complete Growth Medium: DMEM + 10% FBS, 1% P/S
- Culture Medium: DMEM + 10% FBS, Puromycin (2 µg/mL), 1% P/S
- Freeze Medium: 90% FBS, 10% (V/V) DMSO
- T-75 Culture flask (Corning, 430641)
- Cryogenic storage vials (SARSTEDT, 72.379.007)
- Thermostat water bath
- Centrifuge
- Luna cell counter (Logos Biosystems, LUNA- II)
- CO₂ Incubator (Thermo, 3111)
- Biological Safety Cabinet (Thermo, 1389)

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• *Recovery*

1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the cap out of the water. Thawing should be rapid (approximately 2 minutes).
2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by spraying with 70% ethanol. All the operations from this point on should be carried out under strict aseptic conditions.
3. Transfer the vial contents to a centrifuge tube containing 4.0 mL complete growth medium and spin at approximately 1000 rpm for 5 minutes.
4. Resuspend cell pellet with 5 mL complete growth medium and transfer the cell suspension into T-75 flask containing 10-15 mL of pre-warmed complete growth medium.
5. Incubate at 37°C with 5% CO₂ incubator until the cells are ready to be split.

• *Subculture*

1. Remove and discard culture medium.
2. Wash the cells once with sterile PBS.
3. Add 3 mL of 0.25% trypsin to cell culture flask. Place the flask at 37°C for 2-3 minutes, until 90% of the cells have detached.
4. Add 6.0 to 8.0 mL of culture medium and aspirate cells by gently pipetting.
5. Add appropriate aliquots of the cell suspension to new culture vessel.
6. Incubate at 37°C with 5% CO₂ incubator.

Subcultivation Ratio: A subcultivation ratio of 1:6 to 1:10 is recommended.

Medium Renewal: Every 2 to 3 days.

Note: After recovery for 1-2 generations with the complete growth medium not containing the selection marker, if the cell state is well, changing to the culture medium containing the selection marker.

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• *Cryopreservation*

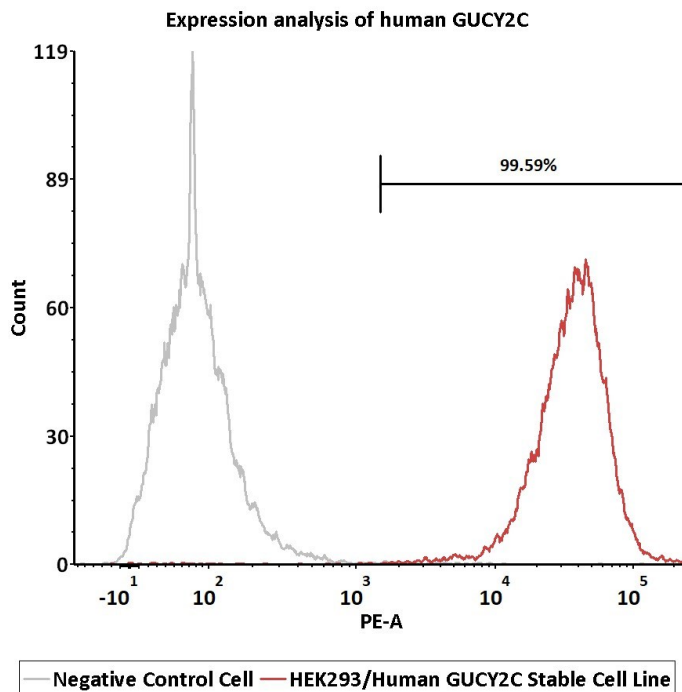
1. Remove and discard spent medium.
2. Detach cells from the cell culture flasks with 0.25% trypsin.
3. Centrifuge at 1000 rpm for 5 min at RT to pellet cells.
4. Resuspend the cell pellets with complete growth medium and count viable cells.
5. Centrifuge at 1000 rpm for 5 min at RT and resuspend cells in freezing medium to a concentration of 5×10^6 to 1×10^7 cells/mL.
6. Aliquot into cryogenic storage vials. Place vials in a programmable cooler or an insulated box placed in a -80°C freezer overnight, then transferring to liquid nitrogen storage.

• *Storage*

- **Product format:** Frozen
- **Storage conditions:** Liquid nitrogen immediately upon receipt

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• *Receptor Assay*



| Catalog No. | Stable Cell Line | MFI for GUCY2C (PE) |
|--------------------|---|---------------------|
| NA | Negative Control Cell | 72.45 |
| CHEK-ATP182 | HEK293/Human GUCY2C Stable Cell Line | 35801.51 |

Fig1. Expression analysis of human GUCY2C on HEK293/Human GUCY2C Stable Cell Line by FACS. Cell surface staining was performed on HEK293/Human GUCY2C Stable Cell Line or negative control cell using anti-human GUCY2C antibody followed by staining with PE anti-human IgG antibody.

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• *Related Products*

| <u>Products</u> | <u>Cat.No.</u> |
|---|----------------|
| HEK293/Human CEACAM5 Stable Cell Line | CHEK-ATP083 |
| HEK293/Human DLL3 Stable Cell Line | CHEK-ATP090 |
| HEK293/Human ROR1 Stable Cell Line | CHEK-ATP084 |
| HEK293/Human FOLR1 Stable Cell Line | CHEK-ATP091 |
| HEK293/Human Glypican-3 (GPC3) Stable Cell Line | CHEK-ATP092 |
| HEK293/Human TL1A Stable Cell Line | CHEK-ATP142 |
| CHO/Human c-MET Stable Cell Line Development Service | SCCHO-ATP141 |
| CHO/Human Mesothelin Stable Cell Line Development Service | SCCHO-ATP120 |
| CHO/Human Glypican-3 (GPC3) Stable Line Development Service | SCCHO-ATP112 |
| CHO/Human STEAP1 Stable Cell Line Development Service | SCCHO-ATP121 |