

CHO/Human MRGPRX2 Stable Cell Line Development Service Data Sheet

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CHO/Human MRGPRX2 Stable Cell Line Development Service Data Sheet

CHO/Human MRGPRX2 Stable Cell Line

Catalog No.	Size
SCCHO-ATP215	2 × (1 vial contains ~5×10 ⁶ cells)

• Description

The CHO/Human MRGPRX2 Stable Cell Line was engineered to express the receptor full length human MRGPRX2 (Uniprot: Q96LB1). Surface expression of human MRGPRX2 was confirmed by flow cytometry.

• Application

- Useful for cell-based MRGPRX2 binding assay

• Cell Line Profile

Cell line	CHO/Human MRGPRX2 Stable Cell Line
Host Cell	CHO
Property	Adherent
Complete Growth Medium	F-12K + 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*

- F-12K Nutrient Mixture (Gibco, Cat. No. 21127-022)
- 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: F-12K + 10% FBS, 1%P/S
- Culture Medium: F-12K + 10% FBS, Puromycin (2 $\mu\text{g}/\text{mL}$), 1%P/S
- Freeze Medium: 90% FBS, 10% (V/V) DMSO
- T-75 Culture flask (Corning, Cat. No. 430641)
- Cryogenic storage vials (SARSTEDT, Cat. No. 72.379.007)
- Thermostat water bath
- Centrifuge (Cence, Model: L550)
- Cell counter (MONWEI, Model: SmartCell200A Plus)
- CO₂ Incubator (Thermo, Model: 3111)
- Biological Safety Cabinet (Thermo, Model: 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 5-7 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*

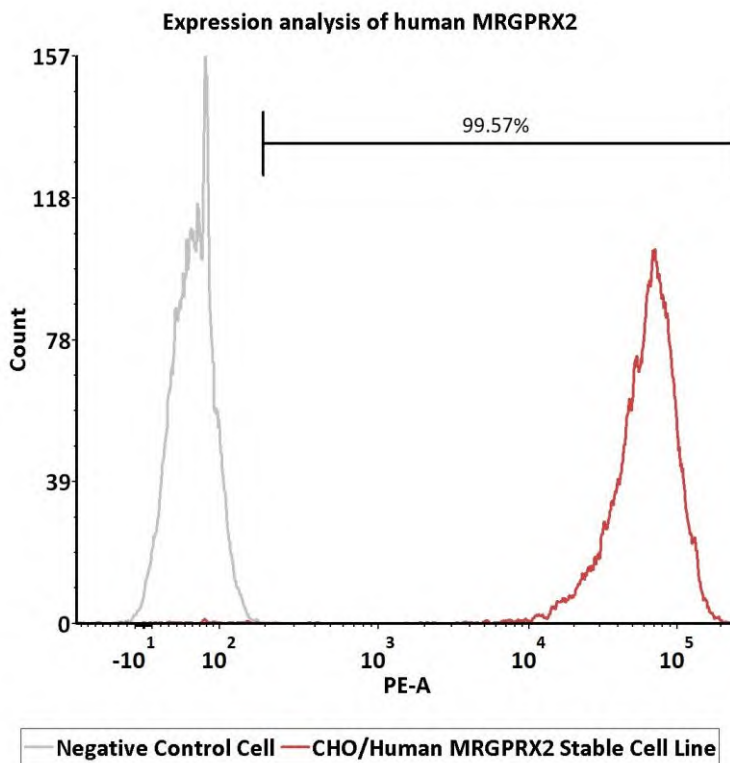
1. Remove and discard spent medium.
2. Detach cells from the cell culture flasks with 0.25% trypsin.
3. Centrifuge at 1000 rpm for 5 min at RT to pellet cells.
4. Resuspend the cell pellets with complete growth medium and count viable cells.
5. Centrifuge at 1000 rpm for 5 min at RT and resuspend cells 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 MRGPRX2 (PE)
NA	Negative Control Cell	58.86
SCCHO-ATP215	CHO/Human MRGPRX2 Stable Cell Line	62574.83

Fig1. Expression analysis of human MRGPRX2 on CHO/Human MRGPRX2 Stable Cell Line by FACS. Cell surface staining was performed on CHO/Human MRGPRX2 Stable Cell Line or negative control cell using PE-labeled anti-human MRGPRX2 antibody.

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• *Related Products*

<u>Products</u>	<u>Cat.No.</u>
CHO/Human LIGHT Stable Cell Line Development Service	SCCHO-ATP109
CHO/Human BTLA Stable Cell Line Development Service	SCCHO-ATP110
CHO/Human TSHR Stable Cell Line Development Service	SCCHO-ATP085
CHO/Human LILRB4 Stable Cell Line Development Service	SCCHO-ATP087
Raji/Membrane-Bound Human TL1A Stable Cell Line Development Service	SCRAJ-STT204
Human DR3 (TL1A receptor) (Luc) Jurkat Reporter Cell Development Service	SCJUR-STF178
Raji/Human HVEM Stable Cell Line Development Service	SCRAJ-STF108
Human TSLP R (Luc) HEK293 Reporter Cell	CHEK-ATF045
STAT3 (Luc) HEK293 Reporter Cell	CHEK-ATF047
Human IL-5 R alpha/CD131 (Luc) HEK293 Reporter Cell	CHEK-ATF074
HEK293/Human OX40 / TNFRSF4 / CD134 Stable Cell Line	CHEK-ATP053
HEK293/Human OX40 Ligand / TNFSF4 Stable Cell Line	CHEK-ATP054
HEK293/Human FcRn (FCGRT & B2M) Stable Cell Line	CHEK-ATP079
Human IL-11 R alpha (Luc) HEK293 Reporter Cell	CHEK-ATF052
Human IL-4 R alpha/IL-13 R alpha 1 (Luc) HEK293 Reporter Cell	CHEK-ATF075
Human IL-21 R/CD132 (Luc) HEK293 Reporter Cell	CHEK-ATF051
Human IL-31 RA/OSMR (Luc) HEK293 Reporter Cell	CHEK-ATF094
Human IL-10 R alpha/IL-10 R beta (Luc) HEK293 Reporter Cell	CHEK-ATF095
Human CD40 (Luc) HEK293 Reporter Cell	CHEK-ATF097
Human IL-7 R alpha/CD132 (Luc) HEK293 Reporter Cell	CHEK-ATF099
NIH-3T3/Human IGF-1 R Stable Cell Line Development Service	CNIH-ATP102
Human HVEM (Luc) HEK293 Reporter Cell	CHEK-ATF105
Human BTLA (Luc) Jurkat Reporter Cell Development Service	SCJUR-STF106
Human IGF-1 R (Luc) HEK293 Reporter Cell	CHEK-ATF107
Human GLP-2R (Luc) HEK293 Reporter Cell	CHEK-ATF128
Human RANK (Luc) HEK293 Reporter Cell	CHEK-ATF129
HEK293/FcRn (FCGRT & B2M), GFP Tag Stable Cell Line	CHEK-ATP132
HEK293/Human TSHR Stable Cell Line	CHEK-ATP086

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• *Related Products*

Products

HEK293/Human LILRB4 Stable Cell Line

HEK293/Human TL1A Stable Cell Line

Human IL-17 RA/IL-17 RC (Luc) HEK293 Reporter Cell

Human OX40 (Luc) HEK293 Reporter Cell

Human IL-2 R beta/IL-2 R gamma (Luc) HEK293 Reporter Cell

HEK293/Human HVEM Stable Cell Line

Human IL-23 R/IL-12 R beta 1(Luc) HEK293 Reporter Cell

Human IL-22 R alpha 1/IL-10 R beta (Luc) HEK293 Reporter Cell

HEK293/Human CD40 Ligand / TNFSF5 Stable Cell Line

Human TSHR (Luc) HEK293 Reporter Cell

Human PTH1R (Luc) HEK293 Reporter Cell

HEK293/Membrane-Bound human TL1A Stable Cell Line

Human TACI (Luc) HEK293 Reporter Cell

Cat.No.

CHEK-ATP088

CHEK-ATP142

CHEK-ATF133

CHEK-ATF135

CHEK-ATF136

CHEK-ATP147

CHEK-ATF166

CHEK-ATF167

CHEK-ATP041

CHEK-ATF187

CHEK-ATF194

CHEK-ATP198

CHEK-ATF197