

Human c-MET (Luc) HEK293 Reporter Cell Data Sheet

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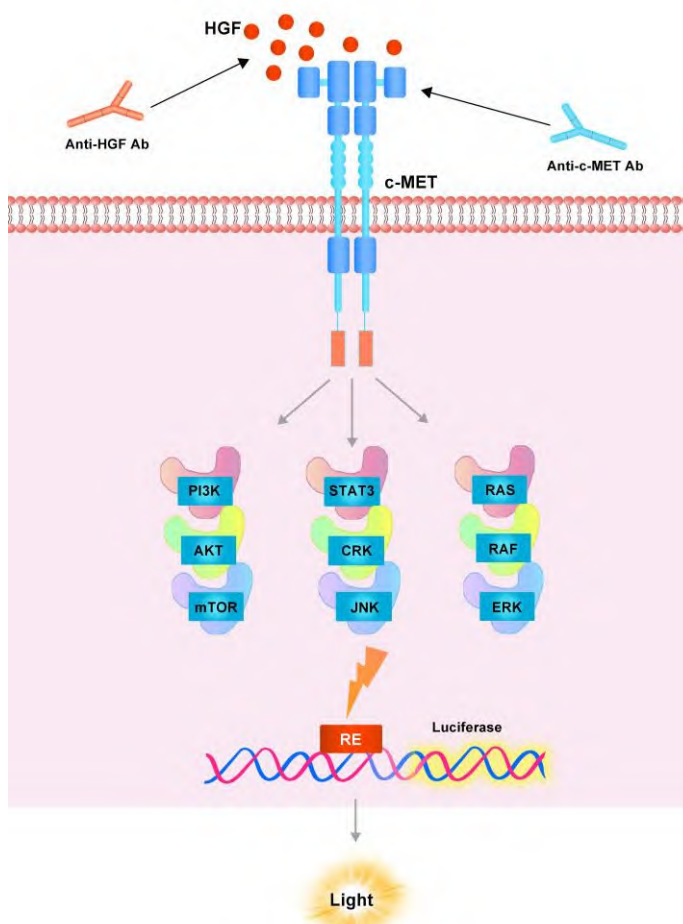
Catalog No.	Size
CHEK-ATF144	2 × (1 vial contains ~5×10 ⁶ cells)

• Description

The Human c-MET (Luc) HEK293 Reporter Cell expressing human c-MET was engineered to express signaling response element driving luciferase expressing systems. When stimulated with human HGF protein, the HGF/c-MET interaction drives RE-mediated luminescence. Neutralization of biological effect of human HGF protein by corresponding antibody results in a decrease in luminescence.

• Application

- Screen for neutralizing antibodies blocking the stimulation of human HGF protein.



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• Cell Line Profile

Cell line	Human c-MET (Luc) HEK293 Reporter Cell
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

• Materials Required for Cell Culture

- DMEM Medium (BasalMedia, Cat. No. L120KJ)

Note: If you are unable to obtain the specified DMEM medium (BasalMedia, Cat. No. L120KJ) in China, you may use an alternative DMEM medium (Gibco, Cat. No. 11965-092) or another suitable medium for culturing.

- Fetal bovine serum (CellMax, Cat. No. SA211.02)
- Puromycin (InvivoGen, Cat. No. ant-pr-5b)

Note: For selection antibiotics, we highly recommend using the specified brand. The activity of antibiotics may vary between manufacturers, so if you choose to use a different brand, it is essential to validate whether the concentration recommended in the culture medium is suitable. Regardless of the brand used, we recommend maintaining a backup culture without selection antibiotics to avoid potential cell loss due to inappropriate antibiotic concentration.

- 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, 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 gently agitating it in a 37°C water bath. To minimize the risk of contamination, ensure the cap remains out of the water. Thawing should be completed quickly, typically within 3-5 minutes.
2. After thawing, promptly remove the vial from the water bath and decontaminate it by spraying with 70% ethanol. From this point onward, all operations must be performed under strict aseptic conditions.
3. Transfer the contents of the vial to a centrifuge tube containing 4.0 mL of complete growth medium. Centrifuge at approximately 1000 rpm for 5 minutes.
4. Resuspend the cell pellet with 5 mL **complete growth medium** and transfer the cell suspension into a 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. Cell viability may be low after thawing, and full recovery may take up to a week. Monitor the cells daily until the culture reaches 80-90% confluency. At this point, remove and discard the spent medium. Avoid allowing the cells to become over-confluent to ensure optimal cell health.
2. Wash the cells once with sterile PBS. Avoid adding PBS directly onto the cell surface.
3. Add 2 mL of 0.25% Trypsin-EDTA to the T-75 flask. Place the flask at 37°C for 2-3 minutes, until 90% of the cells have detached. Monitor under a microscope to avoid over-trypsinization.
4. Add 6.0 to 8.0 mL of **culture medium** using a pipette and gently rinse the cells from the surface of the T-75 flask. Gently pipette up and down several times to achieve a single cell suspension without cell clumps.
5. Transfer appropriate aliquots of the cell suspension to a new T-75 flask. A subcultivation ratio of 1:4 to 1:8 is recommended. Adjust the ratio based on your specific culture system.
6. Incubate at 37°C with 5% CO₂ incubator.
7. When the cell culture reaches 80-90% confluency, proceed to the next subculture. Avoid over-confluency, as this may negatively impact cell performance in subsequent passages.

Note: After recovery, maintain the cells for 1-2 passages in the complete growth medium not containing the selection marker, if the cells are in good condition, transition to the culture medium containing the selection marker during subculturing.

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• *Cryopreservation*

1. When the cell culture reaches 80-90% confluency, remove and discard the spent medium.
2. Wash the cells once with sterile PBS. Avoid adding PBS directly onto the cell surface.
3. Add 2 mL of 0.25% Trypsin-EDTA to the T-75 flask. Place the flask at 37°C for 2-3 minutes, until 90% of the cells have detached. Monitor under a microscope to avoid over-trypsinization.
4. Add 6.0 to 8.0 mL of complete growth medium using a pipette and gently rinse the cells from the surface of the T-75 flask. Gently pipette up and down several times to achieve a single cell suspension without cell clumps. Count the viable cells.
5. Transfer the cell suspension to a centrifuge tube. Centrifuge at 1000 rpm for 5 min at room temperature to pellet the cells.
6. After centrifugation, discard the supernatant. Resuspend the cells in ice cold freezing medium to a concentration of 5×10^6 to 1×10^7 cells/mL.
7. Aliquot the cell suspension into cryogenic storage vials. Place the vials in a programmable cooler or an insulated box placed in a -80°C freezer overnight, then transfer to liquid nitrogen storage for long-term storage.

Note: It is recommended to establish a cell bank at the earliest possible passage for long-term use.

• *Storage Condition*

Cells must be received in a frozen state on dry ice and should be transferred to liquid nitrogen or a -80°C freezer immediately upon receipt. If stored in a -80°C freezer, it is recommended to limit the storage period to no more than two weeks. For long-term preservation, transfer the cells to liquid nitrogen is highly recommended.

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• Receptor Assay

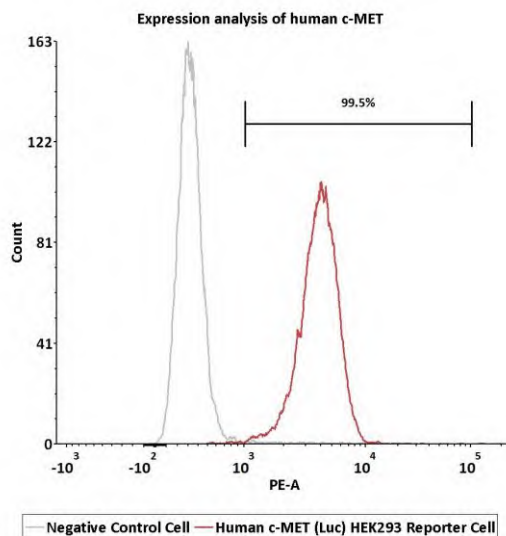


Fig1. Expression analysis of human c-MET on Human c-MET (Luc) HEK293 Reporter Cell by FACS. Cell surface staining was performed on Human c-MET (Luc) HEK293 Reporter Cell or negative control cell using PE-labeled anti-human c-MET antibody.

• Signaling Bioassay

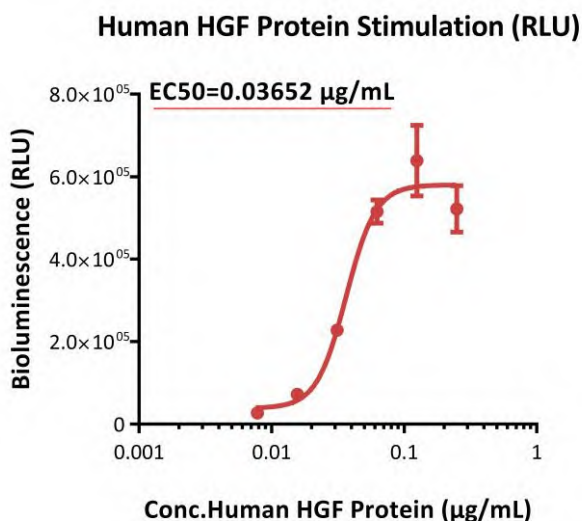


Fig2. Response to human HGF protein (RLU). This reporter cell was incubated with serial dilutions of human HGF protein (Cat. No. HGF-H52H3). The EC₅₀ was approximately 0.03652 µg/mL.

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Human HGF Protein Stimulation (FOLD)

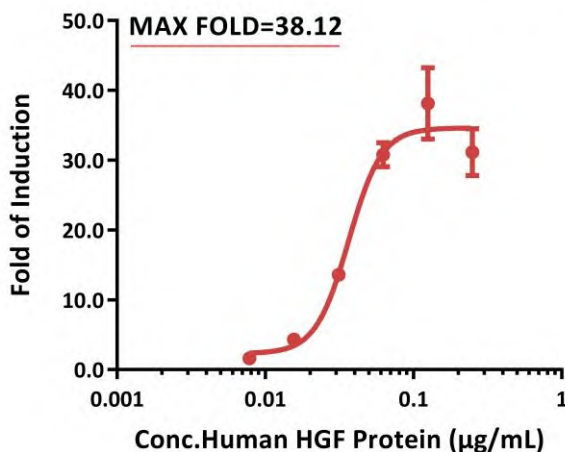


Fig3. Response to human HGF protein (FOLD). This reporter cell was incubated with serial dilutions of human HGF protein (Cat. No. HGF-H52H3). The max induction fold was approximately 38.12.

• Application

Anti-human c-MET Neutralizing Antibody Screening

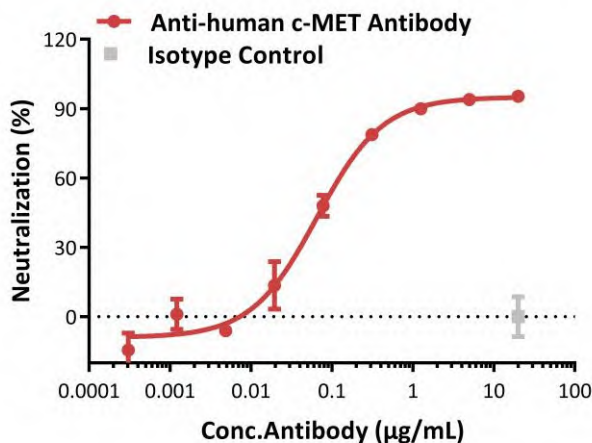
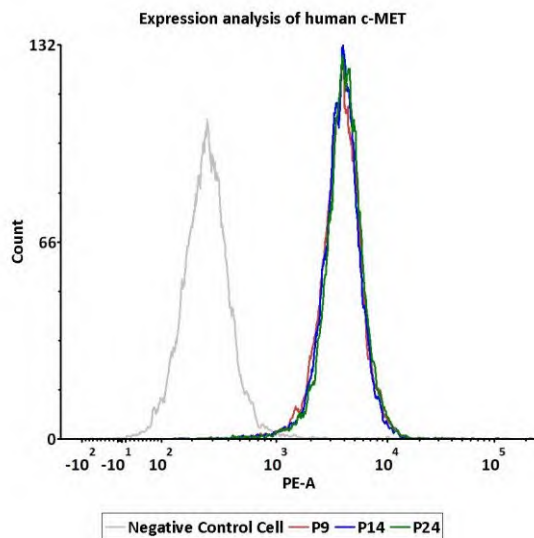


Fig4. Inhibition of human HGF protein-induced reporter activity by anti-human c-MET neutralizing antibody. This reporter cell was incubated with serial dilutions of antibodies in the presence of human HGF protein (Cat. No. HGF-H52H3) with a final concentration of 0.05 µg/mL. The EC50 of anti-human c-MET neutralizing antibody (Amivantamab) is approximately 0.06561 µg/mL.

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• Passage Stability



Passage	MFI for c-MET (PE)
P9	3687.92
P14	3713.63
P24	3880.66

Fig5. Passage stability analysis of receptors expression by FACS. Flow cytometry surface staining of human c-MET on Human c-MET (Luc) HEK293 Reporter Cell demonstrates consistent mean fluorescent intensity across passage 9-24.

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• *Related Products*

Products

Cat. No.

Human VEGF R2 (Luc) HEK293 Reporter Cell	CHEK-ATF044
Human TSLPR (Luc) HEK293 Reporter Cell	CHEK-ATF045
NFAT (Luc) Jurkat Reporter Cell	SCJUR-STF046
STAT3 (Luc) HEK293 Reporter Cell	CHEK-ATF047
NF-κB (Luc) HEK293 Reporter Cell	CHEK-ATF048
Human EGF R (Luc) HEK293 Reporter Cell	CHEK-ATF049
NFAT (Luc) HEK293 Reporter Cell	CHEK-ATF050
Human PD-1/LAG-3 (Luc) Jurkat Reporter	SCJUR-STF063
Human PD-1 (Luc) Jurkat Reporter Cell	SCJUR-STF064
Human LAG-3 (Luc) Jurkat Reporter Cell	SCJUR-STF065
Human CD16a (158V) (Luc) Jurkat Reporter Cell	SCJUR-STF067
Human CD16a (158F) (Luc) Jurkat Reporter Cell	SCJUR-STF068
Human CD32a (131H) (Luc) Jurkat Reporter Cell	SCJUR-STF069
Human CD32a (131R) (Luc) Jurkat Reporter Cell	SCJUR-STF070
Human CD32b (Luc) Jurkat Reporter Cell	SCJUR-STF071
Human CD64 (Luc) Jurkat Reporter Cell	SCJUR-STF072
Human 4-1BB (Luc) HEK293 Reporter Cell	CHEK-ATF073
Human IL-5 R alpha/CD131 (Luc) HEK293 Reporter Cell	CHEK-ATF074
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human CD32a Low Expression)	CK-001
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human CD32a Medium Expression)	CK-002
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human CD32a High Expression)	CK-003
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human CD16a (158V) Low Expression)	CK-004
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human CD16a (158V) Medium Expression)	CK-005

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• *Related Products*

<u>Products</u>	<u>Cat. No.</u>
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human CD16a (158V) High Expression)	CK-006
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human CD32b Low Expression)	CK-007
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human CD32b Medium Expression)	CK-008
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human CD32b High Expression)	CK-009
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human CD64 Low Expression)	CK-010
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human CD64 Medium Expression)	CK-011
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human CD64 High Expression)	CK-012
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human PD-L1 Low Expression)	CK-013
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human PD-L1 Medium Expression)	CK-014
Cell-based Screening Kit for Anti-human 4-1BB Antibody (Human PD-L1 High Expression)	CK-015
Human IL-21 R (Luc) HEK293 Reporter Cell	CHEK-ATF051
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 TrkA (Luc) HEK293 Reporter Cell	CHEK-ATF093
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 GLP-1R (Luc) HEK293 Reporter Cell	CHEK-ATF096
Human CD40 (Luc) HEK293 Reporter Cell	CHEK-ATF097
Human IL-7 R alpha/CD132 (Luc) HEK293 Reporter Cell	CHEK-ATF099
Human GCGR (Luc) HEK293 Reporter Cell	CHEK-ATF103
Human GIPR (Luc) HEK293 Reporter Cell	CHEK-ATF104
Human HVEM (Luc) HEK293 Reporter Cell	CHEK-ATF105
Human BTLA (Luc) Jurkat Reporter Cell	SCJUR-STF106
Human IGF-1 R (Luc) HEK293 Reporter Cell	CHEK-ATF107

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• *Related Products*

Products

Cat. No.

NF-kB (Luc) Jurkat Reporter Cell	SCJUR-STF113
TCF/LEF (Luc) HEK293 Reporter Cell	CHEK-ATF114
Human GLP-2R (Luc) HEK293 Reporter Cell	CHEK-ATF128
Human 5-HT1A (Luc) HEK293 Reporter Cell	CHEK-ATF131
Human RANK (Luc) HEK293 Reporter Cell	CHEK-ATF129
Human NKp46 (Luc) Jurkat Reporter Cell	SCJUR-STF130
Human IL-17 RA/IL-17 RC (Luc) HEK293 Reporter Cell	CHEK-ATF133
ISRE (Luc) HEK293 Reporter Cell	CHEK-ATF134
Human OX40 (Luc) HEK293 Reporter Cell	CHEK-ATF135
Human IL-2 R beta/IL-2 R gamma (Luc) HEK293 Reporter Cell	CHEK-ATF136
Human c-MET (Luc) HEK293 Reporter Cell	CHEK-ATF144
Human TGF-beta R (Luc) HEK293 Reporter Cell	CHEK-ATF145
Human FGF-21 (Luc) HEK293 Reporter Cell	CHEK-ATF163
Human Activin RII (Luc) HEK293 Reporter Cell	CHEK-ATF164
Human IL-23 R/IL-12 R beta 1(Luc) HEK293 Reporter Cell	CHEK-ATF166
Human IL-22 R alpha 1/IL-10 R beta (Luc) HEK293 Reporter Cell	CHEK-ATF167
Human DR3 (TL1A receptor) (Luc) Jurkat Reporter Cell	SCJUR-STF178
Human THRA (Luc) HEK293 Reporter Cell	CHEK-ATF180
Human THRB (Luc) HEK293 Reporter Cell	CHEK-ATF181
Human TSHR (Luc) HEK293 Reporter Cell	CHEK-ATF187
Human BMP (Luc) HEK293 Reporter Cell	CHEK-ATF188
Human PTH1R (Luc) HEK293 Reporter Cell	CHEK-ATF194
Human TACI (Luc) HEK293 Reporter Cell	CHEK-ATF197
Human IL-2 R alpha & IL-2 R beta & IL-2 R gamma (Luc) HEK293 Reporter Cell	CHEK-ATF201
Human IL-1 R1 & IL-1 RAcP (Luc) HEK293 Reporter Cell	CHEK-ATF202