Datasheet for HEK293T/TRE-PKC-Luc Cell Line

Catalog number: SL401

Product: HEK293T cell line stably expressing PKC Transcriptional Response (TRE) gene .

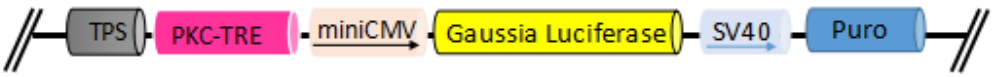
Description: The PKC transcriptional response (TRE) cell line assays the status of the PKC/MAPK signaling pathway through the activity of the transcription factor PKC. The PKC transcriptional TRE cell line contains a minimal promoter and tandem repeats of the PKC transcriptional response element upstream of a secreted Gaussia luciferase reporter gene.

Quantity: 1 vial of 2 x 10^6 cells; frozen

Shipping conditions: Dry ice

Storage conditions: Liquid nitrogen vapor phase. Remove the item from the dry ice packaging and check all items for damage and leakage. Place immediately into storage at or below -140 ^{0}C, preferably into the liquid nitrogen vapor phase, until use.

Transgene integration:



TPS-PKC-TRE-miniCMV-GLuc-SV40-Puro

Source of parental line:

HEK293T
Organism: *Homo sapiens*,
human Tissue: k i d n e y
Cell type: Epithelial

Quality control: >95% viability before freezing. All cells were tested and found to be free of mycoplasma, bacteria, viruses, and other toxins.

Safety instructions: To ensure safety, protective gloves, clothing, and a face mask should be worn when handling frozen vials. Some leakage may occur into the vial during storage. The liquid nitrogen will be converted to gas upon thawing. Due to the nature of nitrogen gas, pressure may build within the vial and possibly result in the vial exploding or losing its cap. This may cause flying debris.

Thawing procedure: The vial of cells should be thawed in a 37 ^{0}C water bath with gentle agitation. For optimal performance, the vial should be thawed in under two minutes. Ensure that the cap of the vial did not loosen upon thawing, and re-tighten as needed. Spray the vial with 70% EtOH and wipe off. Repeat. Using aseptic technique, add the contents of the vial to 9 ml of complete growth medium (without selection). Centrifuge for 5 min. at 125 x g. Aspirate the medium, being careful not to disturb the pellet. Resuspend in 10 mL of complete growth medium, and place into a culture vessel of your choice. Only add selection to the medium after 24 hours in culture.

Culture conditions:

Complete Growth Medium

The base medium for this cell line is DMEM. For optimal growth and maintenance of selection, add the following components to the base medium: dialyzed fetal bovine serum to a final concentration of 10%.

Selection: Puromycin to a final concentration of 1 µg/mL

Culture temperature: 37 ^{0}C with 5% CO_2

Subculture: Replace culture medium with selection-free medium and incubate for up to 6 hours. Rinse the cells with PBS without cations, digest cells with 0.25% (w/v) Trypsin-EDTA (0.53 mM) solution and split at 1:3 to 1:10 ratio.

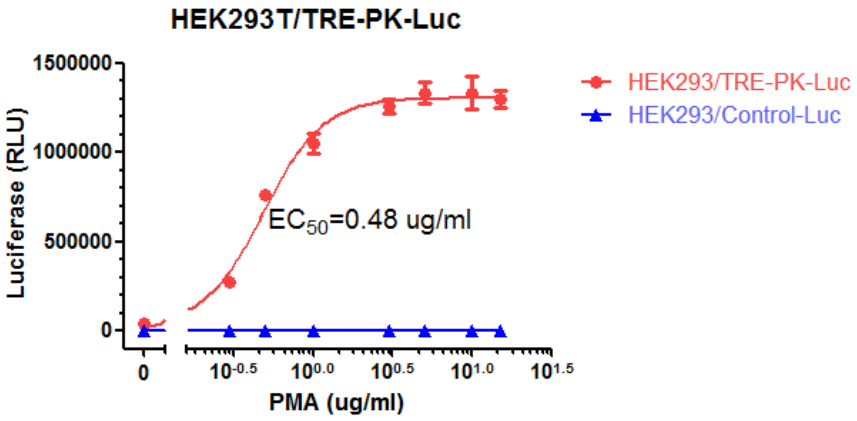
Cryopreservation: Freeze slowly in complete growth medium supplemented with 5% (v/v) DMSO.

Mycoplasma: Negative
(MycoAllert Mycoplasma Detection Kit from Lonza)

Product QC:

PMA dose curve

Split cells from Master Cell Bank clone into 96 well plate, HEK293T/NEG-Luc cell line as negative control, cells were incubated for 24 hours, followed by 18 hours of treatment with PMA, PMA(ng/ml): 0, 0.3, 0.5, 1, 3, 5, 10, 15. A Gaussia Luciferase assay was performed.



Citation of product: If use of this item results in a publication, please use this information: HEK293T/TRE-PK-Luc Cell Line (SL401, GeneCopoeia, Inc., Rockville, MD).

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