



HEK293/ Luciferase (firefly) Expression Stable Cell Line

| Catalog Number | Product name | Amount |
|--------------------------|---|---|
| SC002-GB | luciferase (firefly), HEK293 stable cells (GFP-Blasticidin) | 1 ml / vial in 80% DMEM, 10% FBS, 10% DMSO |

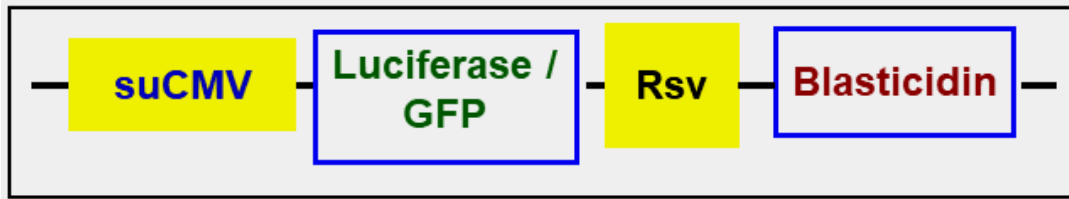
Storage: liquid Nitrogen

Product Description

The HEK293 Cell Line is a permanent line established from primary embryonal human kidney cells transformed with sheared human adenovirus type 5 DNA. The expressed E1A adenovirus gene allows these cells to produce very high levels of protein.

This **Luciferase** (firefly II) and **GFP** co-expression stable cell line is transformed from the **HEK293** host cell line. Both Luciferase and RFP are constitutively co-express (mediated via 2A element), under the same enhance CMV promoter. The Blasticidin marker was expressed under Rsv promoter. The following expression cassette was integrated into cell's genome.

core expression cassette:



This Luciferase is expressed at high level which can be detected by luciferin-D substrate *in vivo* and *in vitro*. The GFP signal can be visualized in every cell, under Fluorescent microscope with RFP filter setting.

Culture procedures

1. Thaw the frozen vial of cells quickly in a 37°C water bath (1~3min), decontaminate the outside of the vial with 70% ethanol.



2. Transfer the entire contents of the cryovial into a T-75 cm² flask containing 20 ml of pre-warmed complete medium. Incubate the cells overnight in a 37°C incubator, 5% CO₂.
3. On the following day, replace the medium with 20 ml of prewarmed, complete medium.
4. Incubate the cells and monitor cell density.
5. Pass cells (1:5 to 1:10 dilution) using 0.25% Trypsin-EDTA solution when the culture reaches ~90% confluent.
6. Freeze cells at a density of ~3 x 10⁶ cells/ml using 90% complete medium with 10% DMSO.

Complete medium

DMEM (high glucose)
2mM L-glutamine
10% Fetal Bovine Serum (FBS)
0.1 mM MEM Non-Essential Amino Acids (NEAA)
1% Pen-strep / Antibiotic-antimycoplasma

- Optional to add: final **10 ug/ml** of Blasticidin (Note: do not add Blasticidin at 1st time thaw culture. This final Blasticidin concentration is also depend on the potency of its brand)

Quality Control

Each vial contains ~2 x 10⁶ cells with >95% viability before freezing. Cells are verified to be free of bacteria, viruses, and mycoplasma.

Warranty and user terms

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- GenTarget is not liable, and does not have any responsibility or liability, whatsoever for any direct and indirect, consequential, or other damages resulting from using this Product.
- GenTarget **do not** provide the protected reporter's sequences information for all our cell line products.

Attachment: GenTarget's pre-made stable cell line list:

| Catalog # | Product Name |
|----------------------------|--|
| SC001 | HEK293-GFP stable cells |
| SC002-Bsd | luciferase (firefly), HEK293 stable cells (Blasticidin) |
| SC002-GB | luciferase (firefly), HEK293 stable cells (GFP-Blasticidin) |
| SC002-GP | luciferase (firefly), HEK293 stable cells (GFP-Puromycin) |
| SC002-Neo | luciferase (firefly), HEK293 stable cells (Neomycin) |
| SC002-Puro | luciferase (firefly), HEK293 stable cells (Puromycin) |
| SC002-RB | luciferase (firefly), HEK293 stable cells (RFP, Blasticidin) |
| SC002-RP | luciferase (firefly), HEK293 stable cells (RFP-Puromycin) |
| SC002T-RP | HEK293T / Luciferase stable cells (RFP-Puromycin) |
| SC003 | LacZ (6His, RFP) / HEK293 Expression stable cell line |
| SC004-Bsd | CRE Expression / HEK293 Cell Line (Bsd) |
| SC004-GP | CRE Expression / HEK293 Cell Line (GFP, Puro) |
| SC004-Neo | CRE Expression / HEK293 Cell Line (Neo) |
| SC004-Puro | CRE Expression / HEK293 Cell Line (Puro) |



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| SC004-RB | CRE Expression / HEK293 Cell Line (RFP, Bsd) |
| SC004-RP | CRE Expression / HEK293 Cell Line (RFP, Puro) |
| SC005-Bsd | HEK293-TetR (Bsd) |
| SC005-GB | HEK293-TetR (GFP-Bsd) |
| SC005-Hygro | HEK293-TetR (Hygro) |
| SC005-Neo | HEK293-TetR (Neo) |
| SC005-Puro | HEK293-TetR (Puro) |
| SC005-RB | HEK293-TetR (RFP-Bsd) |
| SC005-RP | HEK293-TetR (RFP-Puro) |
| SC006 | Flp recombinase Expression HEK293 stable cell |
| SC007 | HEK293-RFP stable cells |
| SC008 | GFP-LacZ & RFP Expression HEK293 Cell Line |
| SC009 | GFP & RFP / HEK293 stable cells |
| SC010 | HEK293-CFP stable cells |
| SC011 | HEK293-YFP stable cells |
| SC012 | TAT Expression / HEK293 Cell Line |
| SC013 | Glutamine Synthetase (6His) Expression HEK293 Cell Line |
| SC014 | human P53 Inducible Expression Cell line |
| SC015 | Human OCT3/4 Expression Stable cells |
| SC016 | Human LIN28 Expression stable cells |
| SC018-Bsd | Color Switch, CRE report cell line: HEK293-loxP-GFP-RFP (Bsd) |
| SC018-Neo | Color Switch, CRE report cell line: HEK293-loxP-GFP-RFP (Neo) |
| SC018-Puro | Color Switch, CRE report cell line: HEK293-loxP-GFP-RFP (Puro) |
| SC020-Puro | luciferase (Renilla), HEK293 stable cells (Puromycin) |
| SC020-RP | luciferase (Renilla), HEK293 stable cells (RFP-Puromycin) |
| SC021-GB | Luciferase (firefly) & CRE Expression cell line (GFP-Bsd) |



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| SC021-Puro | Luciferase (firefly) & CRE Expression stable cell line (Puro) |
| SC021-RP | Luciferase (firefly) & CRE Expression cell line (RFP-Puro) |
| SC022-RB | HEK293-CFTR cell line with RFP and Blasticidin dual marker |
| SC023-RB | HEK293-CLCN2 cell line with RFP and Blasticidin dual marker |
| SC024-RB | HEK293-TRPC3 cell line with RFP and Puromycin dual marker |
| SC025-RB | HEK293-KCNN4 cell line with RFP and Puromycin dual marker |
| SC026-RB | HEK293-ATP2B2 cell line with RFP and Puromycin dual marker |
| SC027-RB | HEK293-TRPV1 cell line with RFP and Puromycin dual marker |
| SC028 | Inducible RFP HEK293 Expression cell line |
| SC029 | inducible RFP HEK293 stable cell line with GFP marker |
| SC030 | inducible GFP HEK293 stable cell line with RFP marker |
| SC031-Puro | Hela-RFP Expression Cells |
| SC032-Bsd | Luciferase (firefly) Expression Hela cells (Bsd) |
| SC032-GB | Luciferase & GFP Expression Hela cells (Bsd) |
| SC032-GN | Luciferase & GFP Expression Hela cells (Neo) |
| SC032-GP | Luciferase & GFP Expression Hela cells (Puro) |
| SC032-Puro | Luciferase (firefly) Expression Hela cells (Puro) |
| SC032-RB | Luciferase & RFP Expression Hela cells (Bsd) |
| SC032-RN | Luciferase & RFP Expression Hela cells (Neo) |
| SC032-RP | Luciferase & RFP Expression Hela cells (Puro) |
| SC033 | Inducible GFP HEK293 stable cell line |
| SC034-Bsd | Hela-GFP stable cells (Blasticidin) |
| SC034-Puro | Hela-GFP stable cells (Puromycin) |
| SC035-Puro | TetR Expression (Puro) / Hela stable cells |
| SC036 | Inducible GFP Expression Hela cell line |



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| SC037 | Inducible RFP Expression HeLa cell line |
| SC038-GB | rtTA (GFP-Bsd) / HeLa stable cells |
| SC038-GP | rtTA (GFP-Puro) / HeLa stable cells |
| SC038-RB | rtTA (RFP-Bsd) / HeLa stable cells |
| SC039-Bsd | CHO-GFP stable cells (Blasticidin) |
| SC039-Puro | CHO-GFP stable cells (Puromycin) |
| SC040-Bsd | MDA-MB-231 / GFP (Bsd) Stable Cell Line |
| SC040-Puro | MDA-MB-231 / GFP (Puro) Stable Cell Line |
| SC040-TetR | MDA-MB-231 / TetR (Puro) stable cells |
| SC041 | MDA-MB-231 / Luciferase-2A-RFP Stable Cell Line |
| SC042 | SH-SY5Y / GFP (Puromycin) stable cell line |
| SC043-Bsd | A549 / GFP stable cells (Blasticidin) |
| SC043-Cas9-GP | A549 / Cas9 (GFP-Puro) Stable Cell Line |
| SC043-Cas9-Puro | A549 / Cas9 (Puro) Stable Cell Line |
| SC043-Cas9-RP | A549 / Cas9 (RFP-Puro) Stable Cell Line |
| SC043-LG | A549 / Luciferase-2A-GFP (Puromycin) stable cell line |
| SC043-Luc | A549 / Luciferase (Puromycin) stable cell line |
| SC043-TetR | A549 / TetR (Puro) stable cells |
| SC044 | MDA-MB-231 / Luciferase-2A-GFP Stable Cell Line |
| SC045-Cas9-Bsd | HeLa / Cas9 (Bad) Stable Cell Line |
| SC046 | SH-SY5Y / RFP (Puromycin) stable cell line |
| SC047-GB | RKO / GFP (Blasticidin) Stable Cell Line |
| SC047-TetR | TetR Expression (Bsd) / RKO stable cells |
| SC048 | Luciferase (Puro) / Jurkat T Cell line |
| SC049-1 | Jurkat T / GFP Stable Cell (EF1a Promoter) |
| SC049-2 | Jurkat T / GFP Stable Cell (Flt1 Promoter) |



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| SC049-3 | Jurkat T / GFP Stable Cell (CD43 Promoter) |
| SC049-4 | Jurkat T / GFP Stable Cell (CD68 Promoter) |
| SC049-5 | Jurkat T / GFP Stable Cell (Survivin Promoter) |
| SC050-G | MCF7 / GFP (Puromycin) Cell Line |
| SC050-L | MCF7 / Firefly Luciferase (Puro) Cell Line |
| SC051-G | ZR-75-1 / GFP (Puromycin) Cell Line |
| SC051-L | ZR-75-1 / Firefly Luciferase (Puro) Cell Line |
| SC053-L | NCI-H1299 / Luciferase (Puro) Stable Cells |
| SC054-L | CFPAC-1 / Luciferase (Puro) Stable Cells |
| SC055-G | MLLB2 / GFP (Neomycin) stable cell line |
| SC056-TetR | mouse CT26 / TetR Expression (Bsd) stable cells |
| SC057-Bsd | MDA-MB-231 / RFP (Bsd) Stable Cell Line |
| SC058 | HEK293 / uGFP (unstable GFP) Stable Cells |
| SC059-Bsd | MDA-MB-231 / Luciferase (Bsd) Stable Cell Line |
| SC059-Puro | MDA-MB-231 / Luciferase (Puro) Stable Cell Line |
| SC060-G | Human B lymphocyte / GFP Stable Cells |
| SC060-LG | Human B lymphocyte (Luciferase / GFP) Stable Cells |
| SC060-LR | Human B lymphocyte (Luciferase / RFP) Stable Cells |
| SC060-R | Human B lymphocyte / RFP Stable Cells |
| SC061-G | Mouse CT26 / GFP Stable Cells |
| SC061-LG | Mouse CT26 (Luciferase & GFP) Stable Cells |
| SC061-LR | Mouse CT26 (Luciferase & RFP) Stable Cells |
| SC061-PDL1 | Mouse CT26 / PDL1 Stable Cells |
| SC061-R | Mouse CT26 / RFP Stable Cells |
| SC062-G | Human AsPC1 / GFP Cell Line |
| SC062-LG | Human AsPC1 / Luciferase and GFP Cell Line |



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| SC062-LR | Human AsPC1 / Luciferase and RFP Cell Line |
| SC062-Luc | Human AsPC1 / Luciferase Cell Line |
| SC062-R | Human AsPC1 / RFP Cell Line |
| SC063-LR | Mouse B lymphocyte (Luciferase & RFP) Stable Cell |
| SC063-Luc | Mouse B lymphocyte / Luciferase Cell Line |
| SC063-R | Mouse B lymphocyte / RFP Cell Line |
| SC064-G | Human HaCAT / GFP (Puro) Cell Line |
| SC064-TetR | Human HaCAT / TetR (Bsd) Cell Line |
| SC065-G | Mouse MB49 / GFP Stable Cells |
| SC065-LG | Mouse MB49 / Luciferase & GFP Stable Cells |
| SC065-LR | Mouse MB49 / Luciferase & RFP Stable Cells |
| SC065-R | Mouse MB49 / RFP Stable Cells |
| SC066-G | Human ES2 / GFP Stable Cells |
| SC066-LG | Human ES2 / Luciferase & GFP Stable Cells |
| SC066-LR | Human ES2 / Luciferase & RFP Stable Cells |
| SC066-R | Human ES2 / RFP Stable Cells |
| SC066-TetR | Human ES2 / TetR (Puro) Stable Cells |
| SC067-G | Human SW403 / GFP Stable Cells |
| SC067-Luc | Human SW403 / Luciferase Stable Cells |
| SC068-G | Human PANC-1 / GFP (Puro) Cell Line |
| SC068-LG | Human PANC-1 / Luciferase & GFP (Puro) Cell Line |
| SC068-Luc | Human PANC-1 / Luciferase (Puro) Cell Line |
| SC068-R | Human PANC-1 / RFP (Puro) Cell Line |
| SC069-G | Human 786-O / GFP Cell Line |
| SC069-LG | Human 786-O / Luciferase & GFP Cell Line |
| SC069-luc | Human 786-O / Luciferase Cell Line |



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| SC070-G | Hela-nucGFP stable cells |
| SC070-R | Hela-nucRFP stable cells |
| SC072-G | Human T47D / GFP Stable Cells |
| SC072-LG | Human T47D / Luciferase & GFP Stable Cells |
| SC072-Luc | Human T47D / Luciferase Stable Cells |
| SC073-GB | Human MCF10A / GFP (Bsd) Stable Cells |
| SC073-GP | Human MCF10A / GFP (Puro) Stable Cells |
| SC073-Luc | Human MCF10A / Luciferase (Puro) Stable Cells |
| SC074-GB | Human SW1990 / GFP (Bsd) Stable Cells |
| SC074-GP | Human SW1990 / GFP (Puro) Stable Cells |
| SC074-LG | Human SW1990 / Luciferase & GFP (Puro) Stable Cells |
| SC074-Luc | Human SW1990 / Luciferase (Puro) Stable Cells |
| SC017 | MDA-MB-231 / niRFP (Puro) Stable Cell Line |
| SC075 | Human ACE2 Expression in Hela Cell Line |
| SC076 | Human ACE2 Expression in HEK293T Cell Line |
| SC019 | Firefly & Renilla Dual Luciferase Hela Cell Line |
| SC077 | COVID-19 Spike (S) Protein / Hela Cell Line |
| SC071-Puro | Color Switch, CRE report cell line: Hela-loxP-GFP-RFP (Puro) |
| SC071-Neo | Color Switch, CRE report cell line: Hela-loxP-GFP-RFP (Neo) |