



SH-SY5Y / GFP Stable Cell Line

| Catalog Number | Product | Amount |
|---------------------------|---|---|
| SC094-Luc | Human SH-SY5Y / Luciferase (Firefly) Cell Line. | 1 vial of cells (2 x 10 ⁶ cells) in completed medium with 10% DMSO |

Storage:

Upon received, place vial in Liquid Nitrogen for long-term storage, or saved in -80oC for short-time storage up to 1 week.

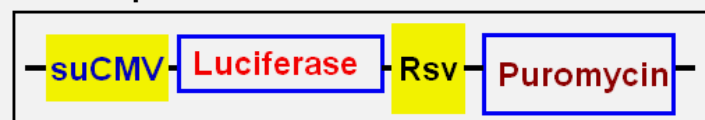
1. Product Description

The SH-SY5Y is human cancer cell line, derived from a bone marrow with neuroblastoma. SH-SY5Y cells are often used as in vitro models of neuronal function and differentiation. It expresses dopaminergic markers, neuron-like characteristic, used to study Parkinson's Disease. However, the loss of neuronal characteristics has been described with increasing passage numbers. This cell line cultured mainly as adhesive cells (with some viable floating cells) in flash, passed with trypsin/EDTA.

This reporter cell line was transformed from the SH-SY5Y cell line, and stably express the fluorescent enhanced **Luciferase** (Firefly) marker. The line was established by transduction with luciferase expression lentivirus containing a Puromycin-resistance gene (under RSV promoter) for selection the stable cells . The Luciferase is constitutively expressed at high-levels under the super CMV promoter. The following expression construct was integrated into cell's genome.

The cell line demonstrates strong GFP fluorescent signal under microscope (see image below).

core expression cassette:





2. 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.

3. Complete medium

1:1 mixture of DMEM / F12 medium (containing L-Glutamine and Sodium Bicarbonate, Lifetech. Cat#: 11320-033);
10% Fetal Bovine Serum (FBS), heat inactivated;
0.1 mM Non-Essential Amino Acid (NEAA);
1 mM sodium pyruvate;
1% Pen-strep (or 1% Antibiotic/antmycotic);

Note: No need to add puromycin in your culture meidu. But if desired, you can add final concentration of Puromycin at **1 ug/ml** for non-stop lonter-term continues culture. (Note: do not add antibiotic at 1st time cell thaw).

4. 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.

5. Warranty and user terms

- 1) This product is warranted to perform as described when used in accordance with this manual. GenTarget's sole remedy for breach of warranty should be, at the option of GenTarget, to repair or replace the product if this product does not meet the stated quality standard.
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- 3) This product is limited to the laboratory that the product is delivered to. This Product is not for resale, distribution, or transfer for any purpose,



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- 4) This Product should be used only for non-profit purposes including any products and services usages; furthermore, **research use only** means that this product is excluded, without limitation, from resale, repackaging, or modification for the making or selling of any commercial product(s) or service(s) without the written approval of GenTarget. You may contact our Business Development department at support@gentarget.com for product proprietary information.
- 5) 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.
- 6) Gentarget **do not** provide the protected reporter's sequences information for all our cell line products.

6. **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) |



| Catalog # | Product Name |
|-----------------------------|---|
| SC004-Neo | CRE Expression / HEK293 Cell Line (Neo) |
| SC004-Puro | CRE Expression / HEK293 Cell Line (Puro) |
| 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 |
| SC017 | MDA-MB-231 / niRFP (Puro) Stable Cell Line |



| Catalog # | Product Name |
|----------------------------|--|
| 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) |
| SC019 | Firefly & Renilla Dual Luciferase Hela Cell Line |
| 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) |
| 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 Blasticidin dual marker |
| SC025-RB | HEK293-KCNN4 cell line with RFP and Blasticidin dual marker |
| SC026-RB | HEK293-ATP2B2 cell line with RFP and Blasticidin dual marker |
| SC027-RB | HEK293-TRPV1 cell line with RFP and Blasticidin 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) |



| Catalog # | Product Name |
|----------------------------|---|
| 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 |
| 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) |
| SC039-RFP | CHO-K1 / RFP Stable Cell Line |
| 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) |



| Catalog # | Product Name |
|---------------------------------|---|
| 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 (Bsd) Stable Cell Line |
| SC045-Cas9-Puro | Hela / Cas9 (Puro) 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) |
| 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 |
| SC051-LG | ZR-75-1 / Luciferase & GFP Cell Line |



| Catalog # | Product Name |
|----------------------------|---|
| SC051-LR | ZR-75-1 / Luciferase & RFP Cell Line |
| SC051-R | ZR-75-1 / RFP (Puromycin) 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-Luc | Human B lymphocyte/ Luciferase (firefly) 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 |
| SC062-LR | Human AsPC1 / Luciferase and RFP Cell Line |



| Catalog # | Product Name |
|----------------------------|---|
| 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 |
| SC065-G | Mouse MB49 / GFP Stable Cells |
| SC065-LG | Mouse MB49 / Luciferase & GFP Stable Cells |
| SC065-LR | Mouse MB49 / Luciferase & RFP Stable Cells |
| SC065-Luc | Mouse MB49 / Luciferase (firefly) 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-Luc | Human ES2 / Luciferase Stable Cells |
| SC066-Luc | Human ES2 / Luciferase (Firefly) 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 |



| Catalog # | Product Name |
|----------------------------|--|
| 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 |
| SC070-G | Hela-nucGFP stable cells |
| SC070-R | Hela-nucRFP stable cells |
| SC071-Neo | Color Switch, CRE report cell line: Hela-loxP-GFP-RFP (Neo) |
| SC071-Puro | Color Switch, CRE report cell line: Hela-loxP-GFP-RFP (Puro) |
| 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 |
| SC075 | Human ACE2 (RFP) Expression in Hela Cell Line |
| SC076 | Human ACE2 (RFP) Expression in HEK293T Cell Line |
| SC076B | Human ACE2 (GFP) Expression in Hela Cell Line |
| SC077 | COVID-19 Spike (S) Protein / Hela Cell Line |
| SC078-G | Mouse Panc02 / GFP Stable Cell Line |
| SC078-Luc | Mouse Panc02 / Luciferase (Firefly) Stable Cell Line |



| Catalog # | Product Name |
|---------------------------|--|
| SC079-G | Human MIA Paca-2 / GFP Stable Cells |
| SC079-LG | Human MIA Paca-2 / Luciferase & GFP Stable Cells |
| SC079-LR | Human MIA Paca-2 / Luciferase & RFP Stable Cells |
| SC079-Luc | Human MIA Paca-2 / Luciferase Stable Cells |
| SC079-R | Human MIA Paca-2 / RFP Stable Cells |
| SC080-G | Human HT-29 / GFP Stable Cell Line |
| SC080-LG | Human HT-29 / GFP & Luciferase Stable Cell Line |
| SC080-Luc | Human HT-29 / Luciferase (Firefly) Stable Cell Line |
| SC081 | Inducible GFP & Luciferase Co-Expression HEK293 cell line |
| SC082 | HEK293 / Cas9 Expression Stable Cell Line |
| SC083 | HEK293 / h PDL1 Expression Stable Cells |
| SC084-G | Human U2OS / GFP Stable Cells |
| SC084-LG | Human U2OS / Luciferase & GFP Stable Cells |
| SC084-Luc | Human U2OS / Luciferase Stable Cells |
| SC085-LG | Human SHP-77 / Luciferase & GFP Stable Cells |
| SC085-LR | Human SHP-77 / Luciferase & RFP Stable Cells |
| SC085-Luc | Human SHP-77 / Luciferase Stable Cells |
| SC085-R | Human SHP-77 / RFP Fluorescent Stable Cells |
| SC086 | CHO / CD19 & GFP Expression Stable Cell Line |
| SC087 | HEK293 / human CD19 Expression Stable Cell Line |
| SC088-G | Human HCT116 / GFP Fluorescent Stable Cells |
| SC088-LG | Human HCT116 / Luciferase & GFP Stable Cells |
| SC088-LR | Human HCT116 / Luciferase & RFP Stable Cells |



| Catalog # | Product Name |
|----------------------------|--|
| SC088-Luc | Human HCT116 / Luciferase Stable Cells |
| SC088-R | Human HCT116 / RFP Fluorescent Stable Cells |
| SC089-G | Human MP41 / GFP Fluorescent Stable Cells |
| SC089-LG | Human MP41 / Luciferase & GFP Stable Cells |
| SC089-Luc | Human MP41 / Luciferase Stable Cells |
| SC089-R | Human MP41 / RFP Fluorescent Stable Cells |
| SC090-G | Mouse HT22 / GFP Fluorescent Stable Cells |
| SC090-Luc | Mouse HT22 / Luciferase Stable Cells |
| SC091-G | Human SK-Mel-5 / GFP Fluorescent Stable Cells |
| SC091-LG | Human SK-Mel-5 / Luciferase & GFP Stable Cells |
| SC091-LR | Human SK-Mel-5 / Luciferase & RFP Stable Cells |
| SC091-Luc | Human SK-Mel-5 / Luciferase Stable Cells |
| SC091-R | Human SK-Mel-5 / RFP Fluorescent Stable Cells |
| SC092-G | Human MDA-MB-468 / GFP Stable Cells |
| SC092-LG | Human MDA-MB-468 / Luciferase & GFP Stable Cells |
| SC092-LR | Human MDA-MB-468 / Luciferase & RFP Stable Cells |
| SC092-Luc | Human MDA-MB-468 / Luciferase Stable Cells |
| SC092-R | Human MDA-MB-468 / RFP Stable Cells |
| SC093 | Luciferase (Renilla) / Hela stable cells |
| SC094-Luc | Human SH-SY5Y / Luciferase (firefly) stable cell line |
| SC095-Cas9 | Human PC-9 / Cas9 Stable Cells |
| SC095-G | Human PC-9 / GFP Fluorescent Stable Cells |
| SC095-Luc | Human PC-9 / Luciferase (Firefly) Stable Cells |



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| Catalog # | Product Name |
|----------------------------|--|
| SC095-R | Human PC-9 / RFP Fluorescent Stable Cells |
| SC096-Bsd | Flp ColorSwitch Reporting Cell Line: HEK293-FRT- GFP-RFP (Bsd) |
| SC096-Puro | Flp ColorSwitch Reporting Cell Line: HEK293-FRT- GFP-RFP (Puro) |
| TLV-C | HEK293-TLV lentivirus packing cells |