



## Color-Switch Flp/FRT Reporter Stable Cell Line

Catalog Number	Product Name / Description	Amount
<a href="#">SC096-Puro</a>	<b>Flp ColorSwitch Reporting Cell Line:</b> HEK293-FRT- <b>GFP-RFP</b> ( <b>Puro</b> )	1 vial (1.0 ml, 2 x 10 <sup>6</sup> cells) in cell frozen medium
<a href="#">SC096-Bsd</a>	<b>Flp ColorSwitch Reporting Cell Line:</b> HEK293-FRT- <b>GFP-RFP</b> ( <b>Bsd</b> )	

### Storage:

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

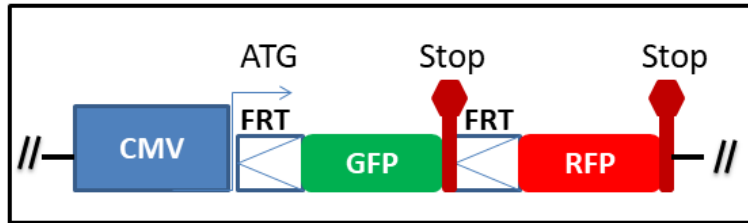
### 1. Product Description:

Flippase (Flp) is derived from the 2 μ plasmid of the yeast *Saccharomyces cerevisiae*. Flp recognizes and acts on DNA sequences known as Flippase Recognition Target (FRT) sites (see the sequence listed below) . Flp catalyzes site-specific recombination between two FRT sites. The recombination event involves the inversion or excision of the DNA segment located between the FRT sites, depending on their orientation. The Flp-FRT system provides a controlled means to manipulate and engineer DNA sequences.

FRT site: 5'gaagttcctattccgaagttcctattctctagaagaagaataggaacttc3'

By inserting a "FRT-flanked expression target" into a host's genome, target expression can be controlled via Flp recombinase. Expression of FRT-flanked target occurs prior to the addition of Flp enzyme. When Flp is applied, it deletes the FRT flanked target segment and stops the target expression. Simultaneously, Flp-mediated recombination can activate expression of a second target downstream from the deleted segment.

In order to monitor and to confirm the Flp-FRT recombination event, GenTarget generates the **Flp reporting cell lines**. Those stable cell lines are derived from either HEK293 cell line by transduced the FRT ColorSwitch lentivirus (CAT#: [LVP1633](#) or [LVP1634](#)). Those cell lines detect the occurrence of Flp-mediated recombination events via a "color switch" mechanism, thereby providing an assay, fast and continual monitoring for the presence of Flp or Flp recombination event. The following cassette was inserted into cell line's genome.

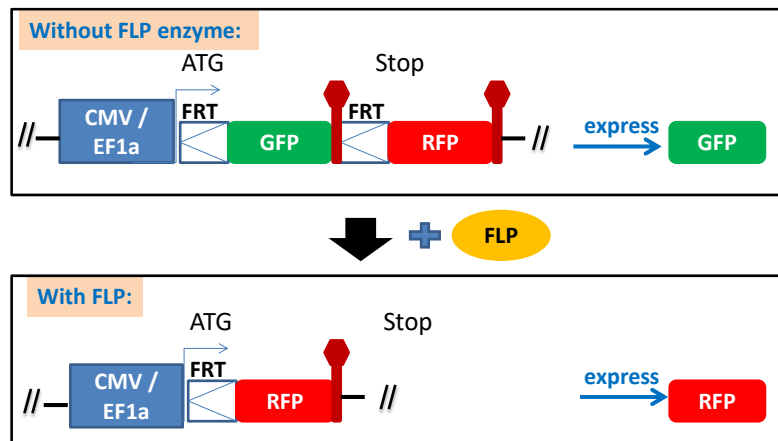


The HEK293 Cell Line is a permanent line established from primary embryonic human kidney transformed with sheared human adenovirus type 5 DNA. The expressed E1A adenovirus gene allows these cells to produce very high levels of protein. Each cell line has also integrated with an antibiotic selection marker under a RSV promoter (not showed in the scheme above), thus each cell line has a specific antibiotic selection marker, blasticidin (Bsd) or Puromycin (puro).

## 2. How it works:

The Flp reporting cell lines are used to monitor or confirm the efficiency of Flp / FRT recombination *in vivo*. It is a great method and easy tool to verify the performance of your FLP enzyme or to verify your Flp/FRT based system.

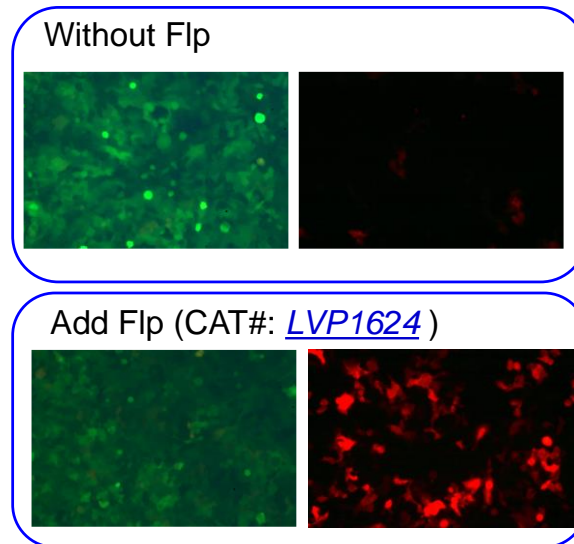
The cell line demonstrates strong **GFP** (Green Fluorescent signal). The downstream **RFP** (Red Fluorescent Protein) was not expressed because of the stop codon after the GFP. Once the Flp enzyme is present in nuclear, the Flp excises / deletes the DNA fragment between two FRT sites, which removes the "GFP-stop codon" (see the DNA structure scheme below).



As a result, the GFP is removed and the downstream RFP is expressed. You will observe the increases in RFP fluorescence positive cell percent and RFP signal



intensity. The RFP signal can be easily monitored via fluorescence cell sorting, visualized by microscopy, or the fluorescence intensity measurement by fluorometer. See the sample results below.



SC096-Bsd cell line: with or without addition of Flp Lentivirus (CAT#: [LVP1624](#)). (Image taken at 48 hour post Flp enzyme addition. Left image is under GFP filter, Right image is under RFP filter).

### Notes:

- 1) Like any mammalian pol II promoter, the CMV promoter seek any possible ORFs, it can slightly express the 2nd ORF (the RFP in this case) in some cell types, which is considered the basal or leaking RFP signal.
- 2) The efficiency of recombination mediated by the Flp-FRT systems can vary depending on the specific experimental conditions and the context in which they are used, such as the specific DNA sequences surrounding the recombination sites, the expression levels of the recombinase enzymes (Flp), and the experimental design.
- 3) Why you still observe the GFP signal after apply Flp enzyme on cells?

### The reasons are:

- (1) The weak recombination excise GFP cassette only in a subset of cells;
- (2) Since each cell genome may be inserted multiple copies of FRT GFP/RFP cassettes, not all copies of GFP was excised in the cells. Therefore, in those cells, you will observe both GFP and RFP signal.



- (3) The same Flp enzyme can catalyze the reverse reaction, restoring the original genomic configuration (i.e the excised GFP was reinstalled).
- (4) The important observation is the dramatic increase in RFP positive cells following addition of Flp.

### 3. Application protocol:

- 1) Culture the cell in completed medium,  
The Flp reporting cell lines express strong GFP without any treatment. Seed cells into 24-well plate at appropriate cell density (like  $1 \sim 2 \times 10^5$  cells/per well), incubate 37°C, 5% CO<sub>2</sub> for overnight;
- 2) Flp enzyme delivery:
  - (1) Apply the Flp enzyme into the cells (which can be achieved by infected cell with Flp expression lentivirus, CAT#: [LVP1624](#), or by regular lipid-transfection of a Flp expression plasmid, or even simply by adding purified neu-clear penetrating Flp protein enzyme.
  - (2) Put cells in normal culture conditions for 48-72 hours.
  - (3) Detect Flp recombination reaction: The RFP signal will gradually showed up and peaked at 48 hours or longer times (dependent upon Flp delivery methods) post the Flp delivery. The RFP signal intensity reflects the FLP-FRT recombination efficiency (rate). You can sort the cell by FACS machine, other meters, or visualize the RFP positive cell under fluorescent signal.

### 4. 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 cm<sup>2</sup> flask containing 20 ml of pre-warmed complete medium. Incubate the cells overnight in a 37°C incubator, 5% CO<sub>2</sub>.
- 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  $\sim 3 \times 10^6$  cells/ml using 90% complete medium with 10% DMSO.

### 5. 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: No need to add puromycin or Blasticidin. However, if desired, you can add the antibiotic at the final concentration of, **0.5 ug/ml** Puromycin or **10 ug/ml** Blasticidin (according to cell line product).

## 6. Quality Control:

Each vial contains  $\sim 2 \times 10^6$  cells with >95% viability before freezing. Cells are verified to be free of bacteria, viruses, and mycoplasma.

## 7. 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.
- 2) By paying the purchase price, the buyer is granted a non-transferable, non-exclusive license to use the product. This product is sold **for research and development purposes only**. For commercial use, please contact GenTarget Inc for license.
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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](mailto: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.

## 8. References:

- 1) Senecoff JF, Rossmeyssl PJ, Cox MM (May 1988). "DNA recognition by the FLP recombinase of the yeast 2 mu plasmid. A mutational analysis of the FLP binding site". Journal of Molecular Biology. 201 (2): 405–21. doi:10.1016/0022-2836(88)90147-7



- 2) Buchholz F, Angrand PO, Stewart AF (July 1998). "Improved properties of FLP recombinase evolved by cycling mutagenesis". Nature Biotechnology. 16 (7): 657–62.
- 3) Golic MM, Rong YS, Petersen RB, Lindquist SL, Golic KG (September 1997). "FLP-mediated DNA mobilization to specific target sites in Drosophila chromosomes". Nucleic Acids Research. 25 (18): 3665–71

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

<b>Catalog #</b>	<b>Product Name</b>
<a href="#">SC001</a>	HEK293-GFP stable cells
<a href="#">SC002-Bsd</a>	luciferase (firefly), HEK293 stable cells (Blasticidin)
<a href="#">SC002-GB</a>	luciferase (firefly), HEK293 stable cells (GFP-Blasticidin)
<a href="#">SC002-GP</a>	luciferase (firefly), HEK293 stable cells (GFP-Puromycin)
<a href="#">SC002-Neo</a>	luciferase (firefly), HEK293 stable cells (Neomycin)
<a href="#">SC002-Puro</a>	luciferase (firefly), HEK293 stable cells (Puromycin)
<a href="#">SC002-RB</a>	luciferase (firefly), HEK293 stable cells (RFP, Blasticidin)
<a href="#">SC002-RP</a>	luciferase (firefly), HEK293 stable cells (RFP-Puromycin)
<a href="#">SC002T-RP</a>	HEK293T / Luciferase stable cells (RFP-Puromycin)
<a href="#">SC003</a>	LacZ (6His, RFP) / HEK293 Expression stable cell line
<a href="#">SC004-Bsd</a>	CRE Expression / HEK293 Cell Line (Bsd)
<a href="#">SC004-GP</a>	CRE Expression / HEK293 Cell Line (GFP, Puro)
<a href="#">SC004-Neo</a>	CRE Expression / HEK293 Cell Line (Neo)
<a href="#">SC004-Puro</a>	CRE Expression / HEK293 Cell Line (Puro)
<a href="#">SC004-RB</a>	CRE Expression / HEK293 Cell Line (RFP, Bsd)
<a href="#">SC004-RP</a>	CRE Expression / HEK293 Cell Line (RFP, Puro)
<a href="#">SC005-Bsd</a>	HEK293-TetR (Bsd)
<a href="#">SC005-GB</a>	HEK293-TetR (GFP-Bsd)
<a href="#">SC005-Hygro</a>	HEK293-TetR (Hygro)



<b>Catalog #</b>	<b>Product Name</b>
<a href="#">SC005-Neo</a>	HEK293-TetR (Neo)
<a href="#">SC005-Puro</a>	HEK293-TetR (Puro)
<a href="#">SC005-RB</a>	HEK293-TetR (RFP-Bsd)
<a href="#">SC005-RP</a>	HEK293-TetR (RFP-Puro)
<a href="#">SC006</a>	Flp recombinase Expression HEK293 stable cell
<a href="#">SC007</a>	HEK293-RFP stable cells
<a href="#">SC008</a>	GFP-LacZ & RFP Expression HEK293 Cell Line
<a href="#">SC009</a>	GFP & RFP / HEK293 stable cells
<a href="#">SC010</a>	HEK293-CFP stable cells
<a href="#">SC011</a>	HEK293-YFP stable cells
<a href="#">SC012</a>	TAT Expression / HEK293 Cell Line
<a href="#">SC013</a>	Glutamine Synthetase (6His) Expression HEK293 Cell Line
<a href="#">SC014</a>	human P53 Inducible Expression Cell line
<a href="#">SC015</a>	Human OCT3/4 Expression Stable cells
<a href="#">SC016</a>	Human LIN28 Expression stable cells
<a href="#">SC017</a>	MDA-MB-231 / niRFP (Puro) Stable Cell Line
<a href="#">SC018-Bsd</a>	Color Switch, CRE report cell line: HEK293-loxP-GFP-RFP (Bsd)
<a href="#">SC018-Neo</a>	Color Switch, CRE report cell line: HEK293-loxP-GFP-RFP (Neo)
<a href="#">SC018-Puro</a>	Color Switch, CRE report cell line: HEK293-loxP-GFP-RFP (Puro)
<a href="#">SC019</a>	Firefly & Renilla Dual Luciferase Hela Cell Line
<a href="#">SC020-Puro</a>	luciferase (Renilla), HEK293 stable cells (Puromycin)
<a href="#">SC020-RP</a>	luciferase (Renilla), HEK293 stable cells (RFP-Puromycin)
<a href="#">SC021-GB</a>	Luciferase (firefly) & CRE Expression cell line (GFP-Bsd)



<b>Catalog #</b>	<b>Product Name</b>
<a href="#">SC021-Puro</a>	Luciferase (firefly) & CRE Expression stable cell line (Puro)
<a href="#">SC021-RP</a>	Luciferase (firefly) & CRE Expression cell line (RFP-Puro)
<a href="#">SC022-RB</a>	HEK293-CFTR cell line with RFP and Blastocidin dual marker
<a href="#">SC023-RB</a>	HEK293-CLCN2 cell line with RFP and Blastocidin dual marker
<a href="#">SC024-RB</a>	HEK293-TRPC3 cell line with RFP and Blastocidin dual marker
<a href="#">SC025-RB</a>	HEK293-KCNN4 cell line with RFP and Blastocidin dual marker
<a href="#">SC026-RB</a>	HEK293-ATP2B2 cell line with RFP and Blastocidin dual marker
<a href="#">SC027-RB</a>	HEK293-TRPV1 cell line with RFP and Blastocidin dual marker
<a href="#">SC028</a>	Inducible RFP HEK293 Expression cell line
<a href="#">SC029</a>	inducible RFP HEK293 stable cell line with GFP marker
<a href="#">SC030</a>	inducible GFP HEK293 stable cell line with RFP marker
<a href="#">SC031-Puro</a>	Hela-RFP Expression Cells
<a href="#">SC032-Bsd</a>	Luciferase (firefly) Expression Hela cells (Bsd)
<a href="#">SC032-GB</a>	Luciferase & GFP Expression Hela cells (Bsd)
<a href="#">SC032-GN</a>	Luciferase & GFP Expression Hela cells (Neo)
<a href="#">SC032-GP</a>	Luciferase & GFP Expression Hela cells (Puro)
<a href="#">SC032-Puro</a>	Luciferase (firefly) Expression Hela cells (Puro)
<a href="#">SC032-RB</a>	Luciferase & RFP Expression Hela cells (Bsd)
<a href="#">SC032-RN</a>	Luciferase & RFP Expression Hela cells (Neo)
<a href="#">SC032-RP</a>	Luciferase & RFP Expression Hela cells (Puro)
<a href="#">SC033</a>	Inducible GFP HEK293 stable cell line
<a href="#">SC034-Bsd</a>	Hela-GFP stable cells (Blasticidin)
<a href="#">SC034-Puro</a>	Hela-GFP stable cells (Puromycin)





<b>Catalog #</b>	<b>Product Name</b>
<a href="#">SC035-Puro</a>	TetR Expression (Puro) / Hela stable cells
<a href="#">SC036</a>	Inducible GFP Expression Hela cell line
<a href="#">SC037</a>	Inducible RFP Expression Hela cell line
<a href="#">SC038-GB</a>	rtTA (GFP-Bsd) / Hela stable cells
<a href="#">SC038-GP</a>	rtTA (GFP-Puro) / Hela stable cells
<a href="#">SC038-RB</a>	rtTA (RFP-Bsd) / Hela stable cells
<a href="#">SC039-Bsd</a>	CHO-GFP stable cells (Blasticidin)
<a href="#">SC039-Puro</a>	CHO-GFP stable cells (Puromycin)
<a href="#">SC039-RFP</a>	CHO-K1 / RFP Stable Cell Line
<a href="#">SC040-Bsd</a>	MDA-MB-231 / GFP (Bsd) Stable Cell Line
<a href="#">SC040-Puro</a>	MDA-MB-231 / GFP (Puro) Stable Cell Line
<a href="#">SC040-TetR</a>	MDA-MB-231 / TetR (Puro) stable cells
<a href="#">SC041</a>	MDA-MB-231 / Luciferase-2A-RFP Stable Cell Line
<a href="#">SC042</a>	SH-SY5Y / GFP (Puromycin) stable cell line
<a href="#">SC043-Bsd</a>	A549 / GFP stable cells (Blasticidin)
<a href="#">SC043-Cas9-GP</a>	A549 / Cas9 (GFP-Puro) Stable Cell Line
<a href="#">SC043-Cas9-Puro</a>	A549 / Cas9 (Puro) Stable Cell Line
<a href="#">SC043-Cas9-RP</a>	A549 / Cas9 (RFP-Puro) Stable Cell Line
<a href="#">SC043-LG</a>	A549 / Luciferase-2A-GFP (Puromycin) stable cell line
<a href="#">SC043-Luc</a>	A549 / Luciferase (Puromycin) stable cell line
<a href="#">SC043-TetR</a>	A549 / TetR (Puro) stable cells
<a href="#">SC044</a>	MDA-MB-231 / Luciferase-2A-GFP Stable Cell Line
<a href="#">SC045-Cas9-Bsd</a>	Hela / Cas9 (Bsd) Stable Cell Line



<b>Catalog #</b>	<b>Product Name</b>
<a href="#">SC045-Cas9-Puro</a>	Hela / Cas9 (Puro) Stable Cell Line
<a href="#">SC046</a>	SH-SY5Y / RFP (Puromycin) stable cell line
<a href="#">SC047-GB</a>	RKO / GFP (Blasticidin) Stable Cell Line
<a href="#">SC047-TetR</a>	TetR Expression (Bsd) / RKO stable cells
<a href="#">SC048</a>	Luciferase (Puro) / Jurkat T Cell line
<a href="#">SC049-1</a>	Jurkat T / GFP Stable Cell (EF1a Promoter)
<a href="#">SC049-2</a>	Jurkat T / GFP Stable Cell (Flt1 Promoter)
<a href="#">SC049-3</a>	Jurkat T / GFP Stable Cell (CD43 Promoter)
<a href="#">SC049-4</a>	Jurkat T / GFP Stable Cell (CD68 Promoter)
<a href="#">SC049-5</a>	Jurkat T / GFP Stable Cell (Survivin Promoter)
<a href="#">SC050-G</a>	MCF7 / GFP (Puromycin) Cell Line
<a href="#">SC050-L</a>	MCF7 / Firefly Luciferase (Puro) Cell Line
<a href="#">SC051-G</a>	ZR-75-1 / GFP (Puromycin) Cell Line
<a href="#">SC051-L</a>	ZR-75-1 / Firefly Luciferase (Puro) Cell Line
<a href="#">SC051-LG</a>	ZR-75-1 / Luciferase & GFP Cell Line
<a href="#">SC051-LR</a>	ZR-75-1 / Luciferase & RFP Cell Line
<a href="#">SC051-R</a>	ZR-75-1 / RFP (Puromycin) Cell Line
<a href="#">SC053-L</a>	NCI-H1299 / Luciferase (Puro) Stable Cells
<a href="#">SC054-L</a>	CFPAC-1 / Luciferase (Puro) Stable Cells
<a href="#">SC055-G</a>	MLLB2 / GFP (Neomycin) stable cell line
<a href="#">SC056-TetR</a>	mouse CT26 / TetR Expression (Bsd) stable cells
<a href="#">SC057-Bsd</a>	MDA-MB-231 / RFP (Bsd) Stable Cell Line
<a href="#">SC058</a>	HEK293 / uGFP (unstable GFP) Stable Cells



<b>Catalog #</b>	<b>Product Name</b>
<a href="#">SC059-Bsd</a>	MDA-MB-231 / Luciferase (Bsd) Stable Cell Line
<a href="#">SC059-Puro</a>	MDA-MB-231 / Luciferase (Puro) Stable Cell Line
<a href="#">SC060-G</a>	Human B lymphocyte / GFP Stable Cells
<a href="#">SC060-LG</a>	Human B lymphocyte (Luciferase / GFP) Stable Cells
<a href="#">SC060-LR</a>	Human B lymphocyte (Luciferase / RFP) Stable Cells
<a href="#">SC060-Luc</a>	Human B lymphocyte/ Luciferase (firefly) Stable Cells
<a href="#">SC060-R</a>	Human B lymphocyte / RFP Stable Cells
<a href="#">SC061-G</a>	Mouse CT26 / GFP Stable Cells
<a href="#">SC061-LG</a>	Mouse CT26 (Luciferase & GFP) Stable Cells
<a href="#">SC061-LR</a>	Mouse CT26 (Luciferase & RFP) Stable Cells
<a href="#">SC061-PDL1</a>	Mouse CT26 / PDL1 Stable Cells
<a href="#">SC061-R</a>	Mouse CT26 / RFP Stable Cells
<a href="#">SC062-G</a>	Human AsPC1 / GFP Cell Line
<a href="#">SC062-LG</a>	Human AsPC1 / Luciferase and GFP Cell Line
<a href="#">SC062-LR</a>	Human AsPC1 / Luciferase and RFP Cell Line
<a href="#">SC062-Luc</a>	Human AsPC1 / Luciferase Cell Line
<a href="#">SC062-R</a>	Human AsPC1 / RFP Cell Line
<a href="#">SC063-LR</a>	Mouse B lymphocyte (Luciferase & RFP) Stable Cell
<a href="#">SC063-Luc</a>	Mouse B lymphocyte / Luciferase Cell Line
<a href="#">SC063-R</a>	Mouse B lymphocyte / RFP Cell Line
<a href="#">SC065-G</a>	Mouse MB49 / GFP Stable Cells
<a href="#">SC065-LG</a>	Mouse MB49 / Luciferase & GFP Stable Cells
<a href="#">SC065-LR</a>	Mouse MB49 / Luciferase & RFP Stable Cells



<b>Catalog #</b>	<b>Product Name</b>
<a href="#">SC065-Luc</a>	Mouse MB49 / Luciferase (firefly) Stable Cells
<a href="#">SC065-R</a>	Mouse MB49 / RFP Stable Cells
<a href="#">SC066-G</a>	Human ES2 / GFP Stable Cells
<a href="#">SC066-LG</a>	Human ES2 / Luciferase & GFP Stable Cells
<a href="#">SC066-LR</a>	Human ES2 / Luciferase & RFP Stable Cells
<a href="#">SC066-Luc</a>	Human ES2 / Luciferase Stable Cells
<a href="#">SC066-Luc</a>	Human ES2 / Luciferase (Firefly) Stable Cells
<a href="#">SC066-R</a>	Human ES2 / RFP Stable Cells
<a href="#">SC066-TetR</a>	Human ES2 / TetR (Puro) Stable Cells
<a href="#">SC067-G</a>	Human SW403 / GFP Stable Cells
<a href="#">SC067-Luc</a>	Human SW403 / Luciferase Stable Cells
<a href="#">SC068-G</a>	Human PANC-1 / GFP (Puro) Cell Line
<a href="#">SC068-LG</a>	Human PANC-1 / Luciferase & GFP (Puro) Cell Line
<a href="#">SC068-Luc</a>	Human PANC-1 / Luciferase (Puro) Cell Line
<a href="#">SC068-R</a>	Human PANC-1 / RFP (Puro) Cell Line
<a href="#">SC069-G</a>	Human 786-O / GFP Cell Line
<a href="#">SC069-LG</a>	Human 786-O / Luciferase & GFP Cell Line
<a href="#">SC069-luc</a>	Human 786-O / Luciferase Cell Line
<a href="#">SC070-G</a>	Hela-nucGFP stable cells
<a href="#">SC070-R</a>	Hela-nucRFP stable cells
<a href="#">SC071-Neo</a>	Color Switch, CRE report cell line: Hela-loxP-GFP-RFP (Neo)
<a href="#">SC071-Puro</a>	Color Switch, CRE report cell line: Hela-loxP-GFP-RFP (Puro)
<a href="#">SC072-G</a>	Human T47D / GFP Stable Cells



<b>Catalog #</b>	<b>Product Name</b>
<a href="#">SC072-LG</a>	Human T47D / Luciferase & GFP Stable Cells
<a href="#">SC072-Luc</a>	Human T47D / Luciferase Stable Cells
<a href="#">SC073-GB</a>	Human MCF10A / GFP (Bsd) Stable Cells
<a href="#">SC073-GP</a>	Human MCF10A / GFP (Puro) Stable Cells
<a href="#">SC073-Luc</a>	Human MCF10A / Luciferase (Puro) Stable Cells
<a href="#">SC074-GB</a>	Human SW1990 / GFP (Bsd) Stable Cells
<a href="#">SC074-GP</a>	Human SW1990 / GFP (Puro) Stable Cells
<a href="#">SC074-LG</a>	Human SW1990 / Luciferase & GFP (Puro) Stable Cells
<a href="#">SC074-Luc</a>	Human SW1990 / Luciferase (Puro) Stable Cells
<a href="#">SC075</a>	Human ACE2 (RFP) Expression in Hela Cell Line
<a href="#">SC076</a>	Human ACE2 (RFP) Expression in HEK293T Cell Line
<a href="#">SC076B</a>	Human ACE2 (GFP) Expression in Hela Cell Line
<a href="#">SC077</a>	COVID-19 Spike (S) Protein / Hela Cell Line
<a href="#">SC078-G</a>	Mouse Panc02 / GFP Stable Cell Line
<a href="#">SC078-Luc</a>	Mouse Panc02 / Luciferase (Firefly) Stable Cell Line
<a href="#">SC079-G</a>	Human MIA Paca-2 / GFP Stable Cells
<a href="#">SC079-LG</a>	Human MIA Paca-2 / Luciferase & GFP Stable Cells
<a href="#">SC079-LR</a>	Human MIA Paca-2 / Luciferase & RFP Stable Cells
<a href="#">SC079-Luc</a>	Human MIA Paca-2 / Luciferase Stable Cells
<a href="#">SC079-R</a>	Human MIA Paca-2 / RFP Stable Cells
<a href="#">SC080-G</a>	Human HT-29 / GFP Stable Cell Line
<a href="#">SC080-LG</a>	Human HT-29 / GFP & Luciferase Stable Cell Line
<a href="#">SC080-Luc</a>	Human HT-29 / Luciferase (Firefly) Stable Cell Line



<b>Catalog #</b>	<b>Product Name</b>
<a href="#">SC081</a>	Inducible GFP & Luciferase Co-Expression HEK293 cell line
<a href="#">SC082</a>	HEK293 / Cas9 Expression Stable Cell Line
<a href="#">SC083</a>	HEK293 / h PDL1 Expression Stable Cells
<a href="#">SC084-G</a>	Human U2OS / GFP Stable Cells
<a href="#">SC084-LG</a>	Human U2OS / Luciferase & GFP Stable Cells
<a href="#">SC084-Luc</a>	Human U2OS / Luciferase Stable Cells
<a href="#">SC085-LG</a>	Human SHP-77 / <b>Luciferase</b> & <b>GFP</b> Stable Cells
<a href="#">SC085-LR</a>	Human SHP-77 / <b>Luciferase</b> & <b>RFP</b> Stable Cells
<a href="#">SC085-Luc</a>	Human SHP-77 / <b>Luciferase</b> Stable Cells
<a href="#">SC085-R</a>	Human SHP-77 / <b>RFP</b> Fluorescent Stable Cells
<a href="#">SC086</a>	CHO / CD19 & GFP Expression Stable Cell Line
<a href="#">SC087</a>	HEK293 / human CD19 Expression Stable Cell Line
<a href="#">SC088-G</a>	Human HCT116 / <b>GFP</b> Fluorescent Stable Cells
<a href="#">SC088-LG</a>	Human HCT116 / <b>Luciferase</b> & <b>GFP</b> Stable Cells
<a href="#">SC088-LR</a>	Human HCT116 / <b>Luciferase</b> & <b>RFP</b> Stable Cells
<a href="#">SC088-Luc</a>	Human HCT116 / <b>Luciferase</b> Stable Cells
<a href="#">SC088-R</a>	Human HCT116 / <b>RFP</b> Fluorescent Stable Cells
<a href="#">SC089-G</a>	Human MP41 / <b>GFP</b> Fluorescent Stable Cells
<a href="#">SC089-LG</a>	Human MP41 / <b>Luciferase</b> & <b>GFP</b> Stable Cells
<a href="#">SC089-Luc</a>	Human MP41 / <b>Luciferase</b> Stable Cells
<a href="#">SC089-R</a>	Human MP41 / <b>RFP</b> Fluorescent Stable Cells
<a href="#">SC090-G</a>	Mouse HT22 / <b>GFP Fluorescent</b> Stable Cells
<a href="#">SC090-Luc</a>	Mouse HT22 / <b>Luciferase</b> Stable Cells



<b>Catalog #</b>	<b>Product Name</b>
<a href="#">SC091-G</a>	Human SK-Mel-5 / <b>GFP</b> Fluorescent Stable Cells
<a href="#">SC091-LG</a>	Human SK-Mel-5 / <b>Luciferase</b> & <b>GFP</b> Stable Cells
<a href="#">SC091-LR</a>	Human SK-Mel-5 / <b>Luciferase</b> & <b>RFP</b> Stable Cells
<a href="#">SC091-Luc</a>	Human SK-Mel-5 / <b>Luciferase</b> Stable Cells
<a href="#">SC091-R</a>	Human SK-Mel-5 / <b>RFP</b> Fluorescent Stable Cells
<a href="#">SC092-G</a>	Human MDA-MB-468 / <b>GFP</b> Stable Cells
<a href="#">SC092-LG</a>	Human MDA-MB-468 / <b>Luciferase</b> & <b>GFP</b> Stable Cells
<a href="#">SC092-LR</a>	Human MDA-MB-468 / <b>Luciferase</b> & <b>RFP</b> Stable Cells
<a href="#">SC092-Luc</a>	Human MDA-MB-468 / <b>Luciferase</b> Stable Cells
<a href="#">SC092-R</a>	Human MDA-MB-468 / <b>RFP</b> Stable Cells
<a href="#">SC093</a>	Luciferase (Renilla) / Hela stable cells
<a href="#">SC094-Luc</a>	Human SH-SY5Y / Luciferase (firefly) stable cell line
<a href="#">SC095-Cas9</a>	Human PC-9 / <b>Cas9</b> Stable Cells
<a href="#">SC095-G</a>	Human PC-9 / <b>GFP</b> Fluorescent Stable Cells
<a href="#">SC095-Luc</a>	Human PC-9 / <b>Luciferase (Firefly)</b> Stable Cells
<a href="#">SC095-R</a>	Human PC-9 / <b>RFP</b> Fluorescent Stable Cells
<a href="#">SC096-Bsd</a>	Flp ColorSwitch Reporting Cell Line: HEK293-FRT- <b>GFP-RFP</b> ( <b>Bsd</b> )
<a href="#">SC096-Puro</a>	Flp ColorSwitch Reporting Cell Line: HEK293-FRT- <b>GFP-RFP</b> ( <b>Puro</b> )
<a href="#">TLV-C</a>	HEK293-TLV lentivirus packing cells