



## Luciferase (firefly), HEK293 stable cell line manual

Catalog Number	Amount	Storage
<a href="#">SC002-Bsd</a>	1 vial of cells ( $2 \times 10^6$ cells) in 80% DMEM, 10% FBS, 10% DMSO	Liquid nitrogen
<a href="#">SC002-Puro</a>		
<a href="#">SC002-Neo</a>		
<a href="#">SC002-GB</a>		
<a href="#">SC002-RB</a>		
<a href="#">SC002-RP</a>		

### **Product Description**

The 293 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.

Luciferase stable cell lines are transformed from the 293 cell line. Each cell line stably expresses firefly [luciferase gene](#). It is established by transduction of luciferase expression lentivirus with different antibiotic (or fluorescent-antibiotic fusion) marker. Luciferase is constitutively expressed in high-level under [suCMV promoter](#). The antibiotic selection marker is expressed under RSV promoter. GenTarget provide Luciferase stable cell lines with different selection marker.

### **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 15 ml of pre-warmed complete medium. Incubate the cells overnight in a 37°C incubator, 5% CO<sub>2</sub>.
3. The following day, replace the medium with 15 ml of pre-warmed, **complete medium** (see below for its components).  
Optional: add antibiotic into the medium as follows:  
10 ug/ml final Blasticidin  
Or: 5 ug/ml final Puromycin  
Or: 50 ug/ml final Neomycin  
(**Note:** antibiotic type is dependent upon the cell line).
4. Incubate the cells and monitor cell density.
5. Pass cells (1:10 dilution) when the culture reaches 80-90% confluent.
6. Freeze cells at a density of  $3 \times 10^6$  cells/ml using 90% complete medium with 10% DMSO.



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### **Complete medium**

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

### **Quality Control**

Each vial contains greater than  $2 \times 10^6$  cells with >95% viability before freeze.  
Cells are tested free of bacteria, viruses, mycoplasma.

### **Warranty**

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 paid the purchase price, buyer is granted a non-transferable, non-exclusive license to use the product. This product is sold **for research and development purposes only**. This product is limited to the laboratory that the product is delivered to. Furthermore, **research use only** means that this product is excluded, without limitation, from resale, repackaging, or modification to be used for the making or selling of any commercial products or services 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.