

## MDA-MB-231 / **RFP** Stable Cell Line

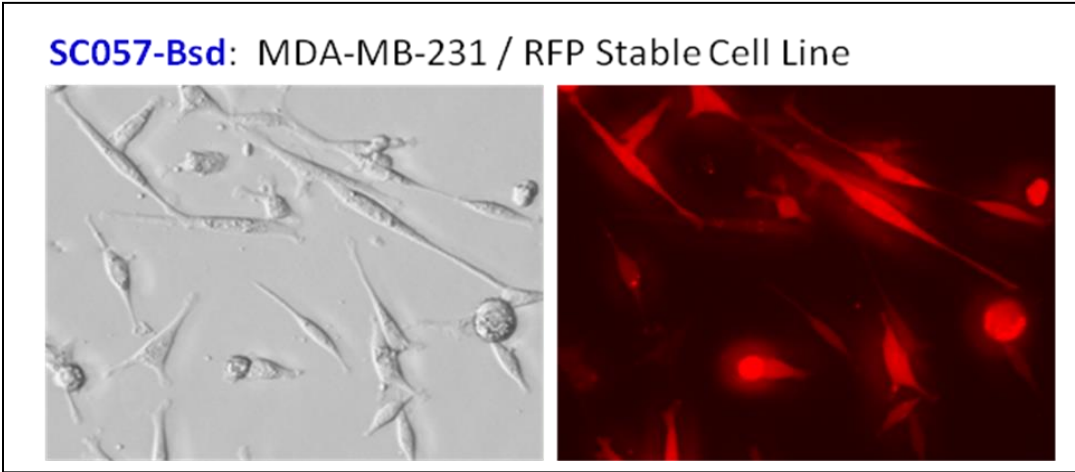
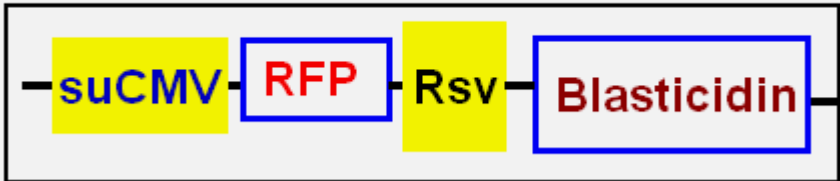
Catalog Number	Product	Amount
<a href="#"><u>SC057-Bsd</u></a>	MDA-MB-231 / <b>RFP</b> (Blasticidin) stable cell line	1 vial of cells (2 x 10 <sup>6</sup> cells) in completed medium with 10% DMSO

**Product Description**

The MDA-MB-231 is one of the common researched human breast cancer cell line, derived from metastatic breast cancer, mammary gland epithelial cells. This cell line cultured as adhesive cell in flash, passed with trypsin/EDTA with high colony forming efficiency.

The reporter cell line was transformed from the MDA-MB-231 cell line, and stably expressing the signal-enhanced **RFP** (Red Fluorescent Protein) reporter. The cell lines were established by transduction with RFP expression lentivirus containing a **Blasticidin** resistance. RFP is constitutively expressed with strongest fluorescent intensity under our proprietary super strong constitutive CMV promoter. The following expression construct was integrated into cell's genome.

**Core expression cassette:**



Each cell demonstrates strong fluorescent signal under microscope (see image above. **RFP filter: Ex:560-587nm / Em:590~610nm.**)

## 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.

## Complete medium

L-15 Medium  
10% Fetal Bovine Serum (FBS)  
0.1 mM Non-Essential Amino Acid (NEAA)  
2mM L-Glutamine,  
1% Pen-strep

## 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.

## Warranty and user terms

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