

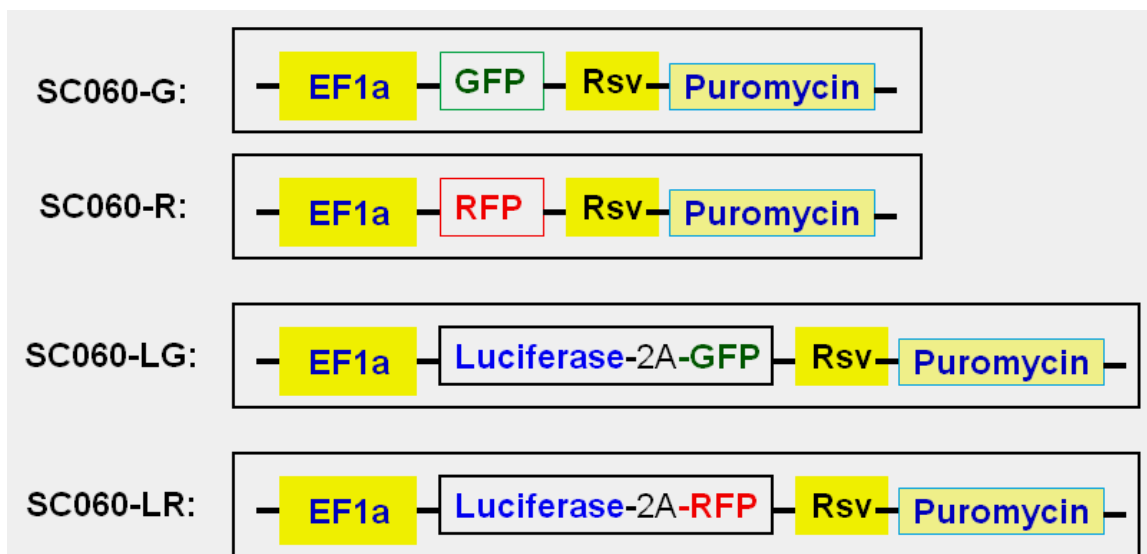
Human B Lymphocyte Reporter Cell Lines

Catalog Number	Product Name	Amount
SC060-R	Human B lymphocyte / RFP Stable Cells	1.0 ml / vial (3~5 x 10 ⁶ cells) in 90% completed medium, 10% DMSO
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	

Product Description

This human B lymphoblast is human peripheral blood cell line, derived from peripheral blood of a 61 year old male with multiple myeloma. The cells express glucocorticoid receptor, and produce and secrete immunoglobulin lambda light chain, but not heavy chains. It is often used as valuable tools for elucidating the mechanisms of action of glucocorticoids and the development of new therapeutics.

Four signal cell lines were generated from a human B Lymphocyte host cells (RPMI 8226), transformed by lentivirus transduction, carry a **Puromycin**-resistance. Each cell line stably expresses a fluorescent reporter (**GFP** or **RFP**) or co-expresses firefly luciferase and fluorescent dual reporter (**Luc / GFP** or **Luc / RFP**), mediated by the 2A element under the same EF1a promoter.

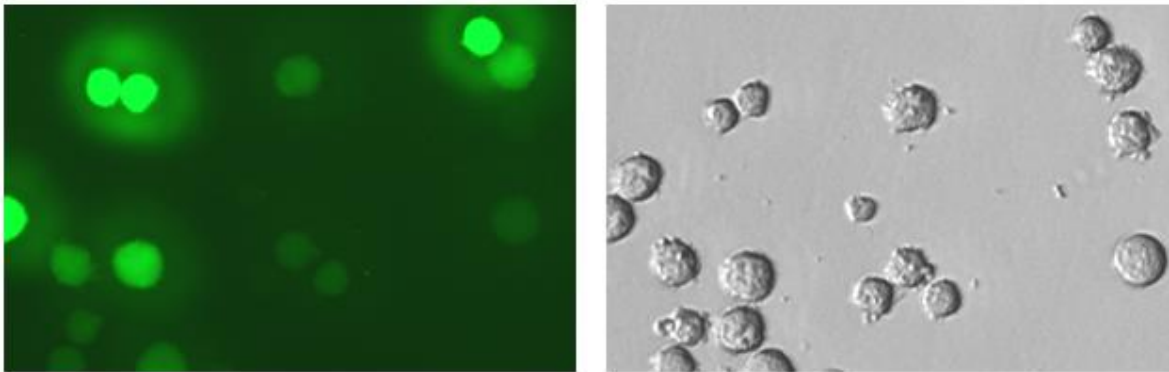


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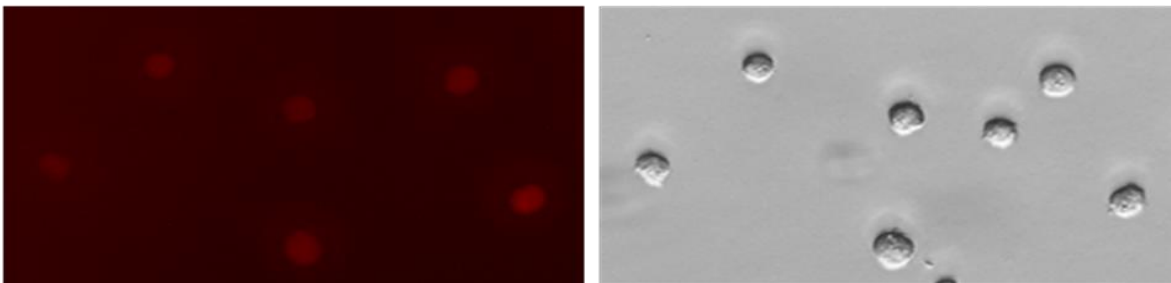
The report(s) is constitutively expressed at high-levels under the Enhance EF1a promoter. The expression cassette was integrated into each cell's genome (see the scheme above).

The cell line demonstrates strong GFP or RFP fluorescent signal under microscope, at filter wavelength Ex/EM: 460nm/ 525nm or 575nm / 610nm, for GFP or RFP respectively. (see image below). **Note:** This cell line is the pool of multiple cell clones and the fluorescent signal intensity is different among cells.

SC060-G: Human B-Lymphocyte / GFP Cells



SC060-R: Human B-Lymphocyte / RFP Cells



For **SC060-LG** and **SC060-LR** cell line, the cells also express high level of firefly luciferase whose signal can be detected by luciferase assay via its D-luciferin substrate.

Culture procedures

- Thaw the vial of frozen cells quickly in a 37 °C water bath (1-3min); decontaminate the outside of the vial with 75% ethanol.

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 **UK & Rest of the World**
184 Park Drive, Milton Park
Abingdon OX14 4SE, UK
T: +44 (0)1235 828 200
F: +44 (0) 1235 820 482

 **North America**
1035 Cambridge Street,
Cambridge, MA 02141
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

 **Germany**
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880

 **Switzerland**
Centro Nord-Sud 2E
CH-6934 Bioggio-Lugano
T: +41(0) 91 604 55 22
F: +41(0) 91 605 17 85

- Transfer the entire contents of the cryo-vial into a T-75 cm² flask for suspension cells, containing 20 ml of pre-warmed complete medium. Incubate the cells overnight in a 37 °C incubator, 5% CO₂.
- Incubate the cells and monitor cell density. Subculture cells before they reach confluence
- Maintain cell culture by diluted into fresh medium and dispensing into new flasks. Make 1:4 dilution when the culture reaches 1 ~ 2 x 10⁶ cells/ml.
- Freeze cells at a density of 1-3 x 10⁶ cells/ml using 90% complete medium with 10% DMSO.

Complete medium

- RPMI-1640
- 2mM Glutamine,
- 10% Fetal Bovine Serum (FBS), heat inactivated;
- 1% Pen-strep (or 1% Antibiotic/antmycotic);
- Optional to add: final **0.3125 ug/ml** of Puromycin (Note: do not add puromycin at 1st thaw culture. This final Puromycin concentration is also depend on the potency of puromycin)

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.

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T: +41(0) 91 604 55 22
F: +41(0) 91 605 17 85

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