

## 14-903ACL: GFP/U87MG Stable Cell Line

**Application :** Functional Assay, FACS

### Description

GFP/U87MG Stable Cell Line is a stably transfected U-87 MG cell line which expresses enhanced green fluorescent protein (eGFP).

### Sequence data: Amino acid sequence of eGFP

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MVSKGEELFTGVVPIVELDGDVNGHKFSVSGEGEDATYGKLT LKFIC  
TTGKLPVPWPTLVTTLT YGVQCFSRYPDHMKQHDFFKSAMPEGYVQE  
RTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNY  
NSHNVYIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQQNTPIGDGP  
VLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITLGMDELYK
```

### Product Info

**Amount :** 1 vial  
**Content :** Each vial contains  $2 \sim 3 \times 10^6$  cells in 1 ml of 90% FBS + 10% DMSO  
**Storage condition :** Immediately upon receipt, store in liquid nitrogen.

### Application Note

#### Application:

- Screen for GFP through Flow Cytometry.
- Screen for GFP through Fluorescence Microscopy.

#### Culture conditions:

Cells should be grown at 37°C with 5% CO<sub>2</sub> using DMEM medium (w/ L-Glutamine, 4.5g/L Glucose and Sodium Pyruvate) supplemented with 10% heat-inactivated FBS and 1% Pen/Strep, plus 3 µg/ml of Puromycin.

It is recommended to quickly thaw the frozen cells upon receipt or from liquid nitrogen in a 37°C water-bath, transfer to a tube containing 10 ml of growth medium without Puromycin, spin down cells, resuspend cells in pre-warmed growth medium without Puromycin, transfer resuspended cells to T25 flask and culture in 37°C-CO<sub>2</sub> incubator.

Leave the T25 flask in the incubator for 1~2 days without disturbing or changing the medium until cells completely recover viability and become adherent. Once cells are over 90% adherent, remove growth medium and passage the cells through trypsinization and centrifugation. At first passage, switch to growth medium containing Puromycin. Cells should be split before they reach complete confluence.

To passage the cells, detach cells from culture vessel with Trypsin/EDTA, add complete growth medium and transfer to a tube, spin down cells, resuspend cells and seed appropriate aliquots of cells suspension into new culture vessels. Subcultivation ration = 1:10 to 1:20 weekly. To achieve satisfactory results, cells should not be passaged over 16

times.

#### LIMITED USE RESTRICTIONS:

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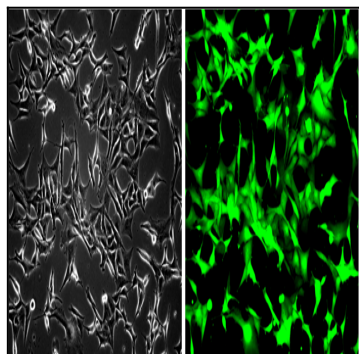


Fig-1: Analysis of the GFP/U87MG stable cell line through fluorescence microscopy. Bright-field image (Left); Fluorescence image (Right).

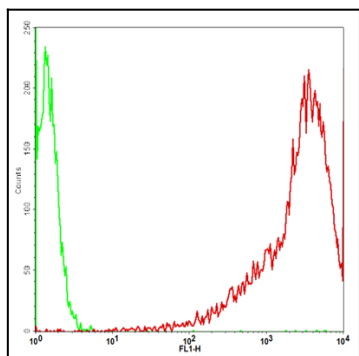


Fig-2: Detection of GFP in the GFP/U87MG stable cell line through flow cytometry . Parental U-87 MG cells (Green); GFP/U87MG cells (Red).