

## 14-905ACL: GFP/Jurkat Stable Cell Line

**Application :** Functional Assay, FACS

### Description

GFP/Jurkat Stable Cell Line is a stably transfected Jurkat cell line which expresses enhanced green fluorescent protein (eGFP).

### Sequence data: Amino acid sequence of eGFP

```
MVSKGEELFTGVVPIVELDGDVNGHKFSVSGEGEDATYGKLT LKFIC  
TTGKLPVPWPTLVTTLYGVQCFSRYPDHMKQHDFK SAMPEGYVQE  
RTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLE  
NSHNVYIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQQNTPIGDGP  
VLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITLGMDELYK
```

### 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 RPMI medium supplemented with 10% heat-inactivated FBS, 1 mM sodium pyruvate, 10 mM HEPES 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.

Monitor the cell viability by counting cells daily for 1-3 days until cells completely recover viability as cells are doubling daily. Once cells are over 90% confluent, harvest cells by centrifugation and passage cells. At first, switch to growth medium containing puromycin. Cells should be split before they reach complete confluence.

To passage the cells, transfer cells 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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This product is solely for Internal Research Purposes and not for Commercial Purposes. Commercial Purposes include, but are not limited to (1) use of the cell line in manufacturing; (2) use of the cell line to provide a service, information or data; (3) use of the cell line for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the cell line whether or not such cell lines are resold for use in research. The buyer cannot sell, give or otherwise transfer this product to a third party.

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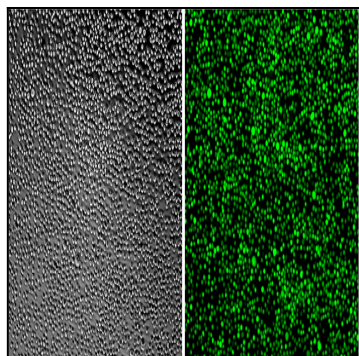


Fig-1: Analysis of the GFP/Jurkat stable cell line through fluorescence microscopy. Bright-field image (Left); Fluorescence image (Right).

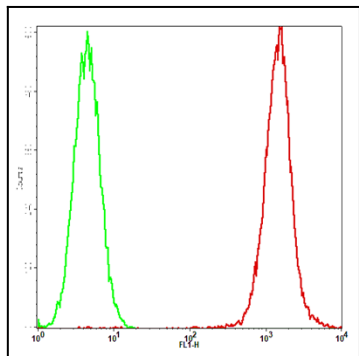


Fig-2: Detection of GFP in the GFP/Jurkat stable cell line through flow cytometry . Parental Jurkat cells (Green); GFP/Jurkat cells (Red).