

Product Description

Product Name:	Nalm6-eGFP-Puro
Catalog Number:	CL138
Lot Number:	CL-IM149

Species:	Human (<i>Homo sapiens</i>)
Tissues:	Peripheral blood
Cell type:	Lymphoma
Parental cells:	Nalm6 (ATCC® CRL-3273 [™])*
Morphology:	Lymphocyte-like
Growth mode:	Suspension
Reporter gene:	Enhanced green fluorescent protein (eGFP)
Selection gene:	Puromycin (Puro)

This is a cell line derived from the human B cell precursor leukemia Nalm6 cell line (ATCC® CRL-3273TM). Parental Nalm6 cells were transduced with LV-eGFP-PGK-Puro (Imanis #LV031) encoding the enhanced green fluorescent protein (eGFP) cDNA under the spleen focus-forming virus (SFFV) promoter and the puromycin resistance gene (Puro) under the phosphoglycerate kinase (PGK) promoter. A high eGFP expressing population was generated by selection using puromycin followed by selection using a methylcellulose based semi-solid medium. The lentiviral vector is a self-inactivating (SIN) vector in which the viral enhancer and promoter have been deleted. Transcription inactivation of the LTR in the SIN provirus increases biosafety by preventing mobilization by replication competent viruses and enables regulated expression of the genes from the internal promoters without *cis*-acting effects of the LTR¹.

* The ATCC trademark and any and all ATCC catalog numbers are trademarks of the American Type Culture Collection

Mycoplasma Testing

This cell line has been tested for mycoplasma contamination and is certified mycoplasma free.

Cell Line Authentication

The parental Nalm6 cell line was authenticated and certified free of interspecies cross contamination by STR profiling.

Recommended Uses

These cells are suitable for *in vitro* and *in vivo* experimentation.

eGFP is not recommended for whole animal in-live imaging. Rather, samples can be collected post mortem for analysis by conventional fluorescence microscopy or flow cytometry.

References

¹Miyoshi et al. J Virol. 1998. 72:8150-8157.

Storage Instructions

Remove cells from the dry ice packaging and immediately store in the vapor phase above liquid nitrogen (below -130°C).

Complete Growth Medium

RPMI-1640 Medium (RPMI) containing 10 mM HEPES 10% fetal bovine serum (FBS) 1% Penicillin/Streptomycin 1 µg/mL Puromycin

Puromycin should <u>NOT</u> be added to the medium until a culture has been well established from the thawed cells (about 1 week). It is also recommended that a backup frozen cell stock be generated (see below) before adding puromycin to the growth medium.

Caution! Typical commercial puromycin stocks are provided at a concentration of 10 mg/mL or 10,000X.

Thawing Instructions

- 1. Thaw cells by gently swirling in a 37°C water bath. To limit contamination, do not submerge the O-ring and cap.
- When cells are ~70% thawed (less than 1 min), remove the vial and wipe down with 70% ethanol. Allow tube to dry completely.
- In a biosafety cabinet, transfer the cells into a 15 mL conical tube containing 5 mL of complete growth medium. Centrifuge cells at ~200 x g for 3-5 min.
- 4. Remove supernatant and resuspend cells in 1 mL complete growth medium. Remove an aliquot for counting.
- 5. Dilute the cells further with growth medium to achieve a final density between 1 and 3×10^6 cells/mL (do NOT use more than 20 mL total). Transfer the cells to a T25 or T75 flask based on volume.
- 6. Incubate the culture at 37°C with 5% CO₂.

Subculturing Instructions

The cells should be subcultured as needed to maintain a density between 3×10^5 and 3×10^6 cells/mL. The cells can be passaged by dilution in fresh complete growth medium. Occassional passage using centrifugation as described above is recommended to limit the amount of debris in cultures.

- 1. Pipet the cell suspension gently to dislodge any cells loosely attached to the culture flask. Transfer the desired volume (half, one fifth, etc.) of the cells to a conical tube.
- 2. Centrifuge at ~150 x g for 3 min. (Note: a short, low speed spin is recommended to limit the amount of cell debris in the pellet.)
- 3. Remove supernatant and resuspend cells in complete growth medium. Transfer to an appropriate sized flask.

Freezing Medium

These cells can be amplified and used to generate additional frozen stocks. Preparation of low passage frozen stocks is highly recommended. Frozen stocks should be preserved in a designated cryopreservation medium or in complete growth medium without antibiotics supplemented with 5-10% DMSO.

Nalm6-eGFP-Puro



Certificate of Analysis

Testing performed by Imanis Life Sciences

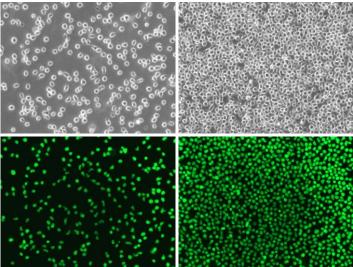
Test description	Result
Post thaw viable cell recovery	94%
Cells per vial	~ 8 x 10 ⁶
Sterility	No contamination detected
Mycoplasma	No contamination detected
Puromycin selection	Pass QC
Fluorescence expression	Pass QC
Average doubling time	24.3 h*

*Doubling time represents the average doubling time during logarithmic growth. This value should be used for general estimation only.

Morphology

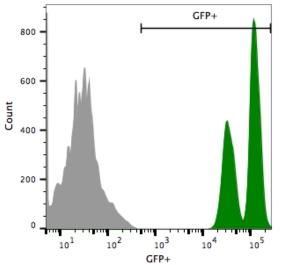
Low density, 200X

High density, 200X



Low and high density photos taken at different times after thawing.

Fluorescence Expression



with paraformaldehyde and analyzed by flow cytometry.

Nalm6-eGFP-Puro (green) or isotype control (Nalm6-Fluc-Puro; grey) cells were fixed

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Quality control by: AMW Quality Assurance by: RLV Effective Date: 26-Oct-2022

