



# *Escherichia coli* GFP

## 25922GFP™

### Description

This clone was derived from ATCC 25922 and contains a multicopy vector encoding the green fluorescent protein (*Aequorea victoria*) GFPmut3. This gene is expressed under the control of the P<sub>lac</sub> promoter (*Escherichia coli*). This construct has been designed for Gram-negative bacteria fluorescence labeling. Ampicillin resistance gene (*bla*) encoded on a plasmid. Confers resistance to 100 µg/mL ampicillin.

**Deposited As:** *Escherichia coli* GFP

**Type strain:** No

**Antigenic properties:** Biotype 1

**Serotype:** 06

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### Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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### Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

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### BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to

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understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

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### **Certificate of Analysis**

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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### **Growth Conditions**

**Medium:**

ATCC Medium 2855: Tryptic Soy Agar/Broth with 100 mcg/ml Ampicillin

**Temperature:** 37°C

**Atmosphere:** Aerobic

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### **Handling Procedures**

1. Open thawed vial according to enclosed instructions or visit [www.atcc.org](http://www.atcc.org) for

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instructions.

2. Aseptically transfer the entire contents to a 5-6 mL tube of #2855 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary tubes.
  3. Use several drops of the primary broth tube to inoculate a #2855 plate and/or #2855 agar slant.
  4. Incubate at 37°C for 24 hours.
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### **Notes**

This strain produces the green fluorescent protein GFPmut3. This protein has a green or yellow-green color and exhibits fluorescence with UV light (Excitation: 501 nm; Emission: 511nm). Incubate in the dark as broad-spectrum light may inactivate this pigment. Longer incubations (24-48h) might be required in order to visualize fluorescence.

Important: a concentration of 100 µg/mL ampicillin must be maintained at all time during culture. Absence or low concentrations of ampicillin will result in plasmid loss. This strain is stable for up to 5 consecutive passages in the recommended culture conditions.

Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

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### **Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: *Escherichia coli* GFP (ATCC 25922GFP)

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### **References**

References and other information relating to this material are available at

[www.atcc.org](http://www.atcc.org).

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