



# ***Escherichia coli* GFP**

**BAA-2219GFP™**

## **Description**

**Strain designation:** 2002-3211

**Deposited As:** *Escherichia coli*

**Type strain:** No

**Serotype:** O121:H19

**Toxigenic:** Yes

**Toxin genes:** *eae* (Intimin) positive; *stx1* (Shiga toxin 1) negative; *stx2* (Shiga toxin 2) positive

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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 2**

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 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

## Handling Procedures

1. Open thawed vial according to enclosed instructions or visit [www.atcc.org](http://www.atcc.org) for instructions.
2. Aseptically transfer the entire contents to a 56 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. Incubate while shaking at 37°C for 16 hours.
  4. Although this item is ideally grown in broth, it will also grow on #2855 agar.
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## Notes

This strain contains a multi-copy vector encoding a synthetic non-*Aequorea* fluorescent protein. This protein is green in color and can be visualized using flow cytometry and imaging (Excitation: 505 nm; Emission: 525 nm) or a UV box (310 nm). Longer incubations (24-48h) may be required in order to visualize fluorescence. A concentration of 250 µg/mL ampicillin should be maintained at all times during culture. Absence or low concentrations of ampicillin will result in plasmid loss. This strain was confirmed by PCR to carry the *stx2* and *eaeA* genes (*stx1*-, *stx2*+, *eaeA* +)

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 BAA-2219GFP)

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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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## Revision

This information on this document was last updated on 2024-10-25

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