




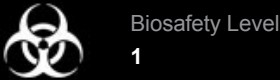
Product Sheet

Escherichia coli GFP (ATCC® 25922GFP™)

Please read this **FIRST**



Storage Temp.
-80°C or colder



Biosafety Level
1

Intended Use

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

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Escherichia coli* GFP (ATCC® 25922GFP™)

Description

Deposited Name: *Escherichia coli* GFP

Antigenic Properties: Serotype 06, Biotype 1

Product Description: This clone was derived from ATCC® 25922™ and contains a multicopy vector encoding the green fluorescent protein GFPmut3. This gene is expressed under the control of the P_{lac} promoter. 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.

Vector: pUCP18-MCSgfpmut3

Vector size: 5.492kb

Vector type: plasmid

Marker: *bla* (ampR)

Features:

GFPmut3: fluorescent maker under the control of P_{lac} promoter

Origin of replication: ori from pRO1600

Unique restriction sites: BamHI, EcoRI, EcoRV, SmaI, XhoI.

Double restriction sites: HindIII, PstI, Sall, XbaI.

Propagation

Medium

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

Growth Conditions

Temperature: 37°C

Atmosphere: Aerobic

Propagation Procedure

1. Open thawed vial according to enclosed instructions or visit www.atcc.org for 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 16-24 hours.

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.

References

References and other information relating to this product are available online at www.atcc.org.

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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www.atcc.org

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Fax: 703.365.2750
Email: Tech@atcc.org



Or contact your local distributor



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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

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