





Product Sheet

Pseudomonas aeruginosa GFP (ATCC® 15692GFP™)

Please read this FIRST



Storage Temp.
-80°C or colder



Biosafety Level
2

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: *Pseudomonas aeruginosa* GFP (ATCC® 15692GFP™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Deposited Name: *Pseudomonas aeruginosa* GFP

Product Description: This clone was derived from ATCC® 15692™ 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 (*b/a*) encoded on a plasmid. Confers resistance to 300 µg/mL ampicillin.

Vector: pUCP18-MCSgfpmut3

Vector size: 5.492kb

Vector type: plasmid

Marker: *b/a* (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 2854: Nutrient Agar/Broth with 300 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 #2854 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 #2854 plate and/or #2854 agar slant.
4. Incubate at 37°C for 16 hours.

Notes

Colonies on #2854 plates are entire, glistening, smooth, raised, and translucent with a greenish pigmentation. This strain is cited to produce pyochelin and pyocyanin (Cox Infect. Immun. 36:1723, 1982; Britigan et al Infect. Immun. 65:10711076, 1997).

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

Important: a concentration of 300 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: 2

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.


ATCC Warranty




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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

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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