




Product Sheet


## *Shigella flexneri* GFP (ATCC® 12022GFP™)

Please read this **FIRST**



Storage Temp.  
**-80°C or colder**

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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: *Shigella flexneri* GFP (ATCC® 12022GFP™)

### Description

**Deposited Name:** *Shigella flexneri* GFP

**Antigenic Properties:** Serotype 2b

**Product Description:** This clone was derived from ATCC® 12022™ and contains a multicopy vector encoding the green fluorescent protein GFPmut3. This gene is expressed under the control of the P<sub>lac</sub> 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<sub>lac</sub> 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 2853: Nutrient 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](http://www.atcc.org) for instructions.
2. Aseptically transfer the entire contents to a 5-6 mL tube of #2853 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 #2853 plate and/or #2853 agar slant.
4. Incubate at 37°C for 16 hours.

### Notes

Colonies on #2853 agar are entire, smooth, glistening, and low convex.

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 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).

### References

References and other information relating to this product are available online at [www.atcc.org](http://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

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
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800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)



Or contact your local distributor



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### Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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

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

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