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_{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, SalI, 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 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.

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.

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