



Product Sheet

pJIR750 [JIR2438] (ATCC® 87015™)

Please read this FIRST

 Storage Temp.
Store frozen vial at -80° C.

 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: pJIR750 [JIR2438] (ATCC® 87015™)

Shipping Information

Frozen glycerol stock of *E. coli* containing the plasmid.

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

Shuttle expression vector derived from pJIR418 (ATCC# 77387) permitting expression of antibiotic resistance in both hosts. The chloramphenicol resistance gene (catP), expressed in both *Clostridium perfringens* and *Escherichia coli*, was derived from *C. perfringens* and is inactivated by insertions at the EcoRV site. The vector contains the following restriction sites (approximate kb from the EcoRI site): BglI 0.2, 2.50; ClaI 4.99, 5.03; EcoRV 4.72; NdeI 0.27, 2.09; PvuI 0.17; PvuII 0.14, 6.39; SmaI 4.98. The order and orientation of the major features of the plasmid are: lacZ EcoRI/MCS/HindIII lacZ - pIP404 ori βrep βcatP pMB1 ori.

Plasmid 29: 233-235, 1993.

Designation: pJIR750 [JIR2438]

Propagation

Transfer a loopful to a test tube containing 5 mL LB + 10mg/mL of chloramphenicol broth. A loopful of culture can also be streaked on an agar plate of the same. Incubate cultures at 37° C. Isolate DNA using standard plasmid preparation procedures.

Growth Conditions

Temperature: 37.0°C

Medium

ATCC® Medium 1675: LB medium (ATCC medium 1065) with 10 mcg/ml Chloramphenicol

Vector Information

Size (kb): 6.5679998397827150

Vector: pJIR750 (plasmid)

Promoters: Promoter lac

Construction: pJIR418

Marker(s): cmIR

Construct size (kb): 6.567999839782715

Features: insert detection: lacZ'

marker(s): catP

other: rep

promoter: lac

replicon: pIP404

replicon: pMB1

MCS: EcoRI...HindIII

References

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

Notes

The standard reverse sequencing primer is not useful with this vector due to the duplication of the 181 bp region between pUC18 sites PvuII and EcoRI. Restriction digests of the vector give the following sizes (kb): BglI 4.4, 2.2; ClaI 6.6; EcoRV 6.6 .

ATCC staff

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.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media



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or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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

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

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