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): BglII 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–ßrep–ßcatP–pMB1 ori. Plasmid 29: 233-235, 1993.

**Designation:** pJIR750 [JIR2438]

**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

**Size (kb):** 6.567999839782715

**Vector:** pJIR750 (plasmid)

**Promoters:** Promoter lac

**Construction:** pJIR418

**Marker(s):** cmlR

**Construct size (kb):** 6.567999839782715

**Features:** insert detection: lacZ’ marker(s): catP other: rep promoter: lac replicon: pIP404 replicon: pMB1 MCS: EcoRI...HindIII

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

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): BglII 4.4, 2.2; ClaI 6.6; EcoRV 6.6.

**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...
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.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this
product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from
scientific literature and patents are provided for informational purposes only. ATCC does not
warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage,
handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use
of this product. While reasonable effort is made to insure authenticity and reliability of strains
on deposit, ATCC is not liable for damages arising from the misidentification or
misrepresentation of cultures.

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.

© ATCC 2018. All rights reserved. ATCC is a registered trademark of the American Type Culture Collection. [08/17]