ATCC

Product Sheet

pBJ-383 (ATCC® 77458™)

Please read this FIRST

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: pBJ-383 (ATCC® 77458™)

Shipping Information

Distributed: freeze-dried

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

Designation: pBJ-383
Distribution Host:
Distribution host: *Escherichia coli* HB101 (ATCC 33694)

Propagation

Growth Conditions
Temperature: 37.0°C
Medium
ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Vector Information

Size (kb): 7.0999999046325680
DESCRIPTION OF VECTOR:
Intact vector size: 7.100
Type of vector: phagemid
Cloning sites: BamHI SpeI EcoRI SacI
Polylinker sites: SacI BstXI SacII EagI NotI XbaI SpeI BamHI: GST-GAL1/GAL10:
EcoRI XhoI ApaI KpnI
Construction: pGEX-3X, pRS42 6
Host range: Saccharomyces cerevisiaeCandida robusta; Escherichia coli
Features (with orientation and position when available):
marker(s): URA3, ->
replicon: f1, <-
promoter for in vitro transcription: T7 (phi10), ->
MCS: KpnI...EcoRI, ->
promoter for expression: GAL10...GAL1, ->
coding sequence: GST, ->
MCS: BamHI...SacI, ->
promoter for in vitro transcription: T3, <-
replicon: pMB1, ->
marker(s): ampR, <-
replicon: 2 micron
Vector: pBJ-383 (phagemid)
Promoters: Promoter for in vitro transcription T7 (phi10)
Construction: pGEX-3X, pRS42 6
Marker(s):URA3,ampR
Construct size (kb): 7.099999904632568
Features: marker(s): URA3
marker(s): ampR
promoter for expression: GAL10...GAL1
promoter for in vitro transcription: T3
promoter for in vitro transcription: T7 (phi10)
replicon: 2 micron
replicon: f1
replicon: pMB1
MCS: BamHI...SacI
MCS: KpnI...EcoRI
coding sequence: GST

References

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

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--7.1;
BamHI--7.1; XhoI--7.1.
- ATCC staff

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YE-type, high copy number, galactose-inducible, GST fusion protein expression shuttle vector containing a divergent GAL1/GAL10 promoter cassette. Fusion proteins can be recovered by glutathione affinity chromatography. Can be used to produce ssDNA. Contains promoters for in vitro RNA synthesis, priming sites useful for sequencing, and yeast REP3 and FRT sequences. The factor Xa recognition site of pGEX-3X is maintained and precedes the BamHI cloning site. The BamHI site is in the 1st reading frame (The A in ggatcc is position 1.) An in-frame stop codon occurs in the SpeI site, so 3' sites are not useful. The GAL10 RNA start site is disrupted, thus providing only one direction of transcription. Unless a start site for transcription is provided, little or no message should be made from inserts cloned into the GAL10 side of the promoter cassette. Do not use this side of the promoter unless you can insure that mRNA will be properly initiated by providing an RNA start site. Proteins that associate with the expressed GST fusion protein may co-purify after glutathione affinity chromatography. The polylinker sites listed may not be unique in this vector.
- personal communication

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.
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