



Product Sheet

pBJ-383 (ATCC® 77458™)

Please read this FIRST



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)

Media:

ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Conditions

Temperature: 37.0°C

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 Apal KpnI

Construction: pGEX-3X, pRS42 6

Host range: *Saccharomyces cerevisiae* *Candida 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

YE-type, high copy number, galactose-inducible, GST fusion protein expression shuttle vector containing a divergent GAL1/GAL10 promoter cassette. Fusion



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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.

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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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