pBJ-383

77458™

Description

Clone type: Vector
Host: *Escherichia coli* HB101 (ATCC 33694)

Storage Conditions

Product format: Frozen

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Vector Information

Construct size (kb): 7.099999904632568
Intact vector size: 7.100
Vector name: pBJ-383 (phagemid)
Type of vector: phagemid
Construction: pGEX-3X, pRS42 6
Host range: *Saccharomyces cerevisiae*; *Candida robusta*; *Escherichia coli*
Cloning sites: BamHI; SpeI; EcoRI; SacI
Coding sequence: GST, ->; GST
Markers: ampR; URA3
MCS: KpnI...EcoRI, ->; BamHI...SacI, ->
Polylinker sites: SacI; BstXI; SacII; EagI; NotI; XbaI; SpeI; BamHI; EcoRI; XhoI; ApaI; KpnI
Promoters: *In vitro* transcription: T7 (phi10)
Replicon: 2 micron; fl; pMB1

Growth Conditions

Medium:
ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin
Temperature: 37°C

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

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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pBJ-383 (ATCC 77458)

References

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

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Revision

This information on this document was last updated on 2025-09-09

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