



# pBJ-383

77458™

## Description

**Clone type:** Vector

**Host:** *Escherichia coli* HB101 (ATCC 33694)

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## Storage Conditions

**Product format:** Frozen

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## 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.

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## 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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## 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

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## Growth Conditions

### Medium:

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

**Temperature:** 37°C

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## 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

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## Material Citation

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

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## References

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

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## Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: [tech@atcc.org](mailto:tech@atcc.org) or contact your local distributor

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