



pRS423

77104™

Description

A YE-type (episomal) *E. coli*/*S. cerevisiae* shuttle vector permitting RNA synthesis in vitro, visual detection of recombinants, production of single stranded DNA and containing primer sites useful for sequencing

Clone type: Vector

Shipping information: *Escherichia coli* containing the phagemid

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

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): 5.797

Vector name: pRS423 (phagemid)

Construction: pJS92, pRS303, pBluescript II SK+

Insert detection: lacZ'

Markers: HIS3; ampR

MCS: KpnI...SacI

Promoters: T7 (phi10); T3; lac

Replicon: 2 micron; f1; pMB1

Growth Conditions

Medium:

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

Temperature: 37°C

Notes

The beta galactosidase alpha peptide permits blue-white detection of recombinants.

The vector also contains the REP3 and FRT sequences necessary for high copy propagation in yeast. In *S. cerevisiae*, the copy number is about 20 per haploid cell. In non-selective growth, plasmids are lost through mitotic segregation at rates in the range of 4.3 +/- 1.3% of progeny doubling.

- Gene (Amst.) 110 : 119-122, 1992

Restriction digests of the clone gave the following sizes (in kb): BamHI - 5.8 ; EcoRI - 5.8 ; PvuI - 3.7, 2.1.

-ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRS423 (ATCC 77104)

References

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

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