ATCC

Product Sheet

pRS423 (ATCC® 77104™)

Please read this FIRST

Storage Temp.
Store unopened freeze dried vial at 4°C.

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: pRS423 (ATCC® 77104™)

Shipping Information

Freeze dried phagemid in *E. coli*

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

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
Designation: pRS423
Media:
Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Conditions

Temperature: 37.0°C

Vector Information

Size (kb): 5.797
Vector: pRS423 (phagemid)
Promoters: Promoter T7 (phi10)
Construction: pJS92, pRS303, pBluescript II SK+
Marker(s):ampR,HIS3
Construct size (kb): 5.797
Features: insert detection: lacZ'
marker(s): HIS3
marker(s): ampR
promoter: T3
promoter: T7 (phi10)
promoter: lac
replicon: 2 micron
replicon: f1
replicon: pMB1
MCS: KpnI...SacI

References

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

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, 1992Restriction digests of the clone gave the following sizes (in kb): BamHI 5.8 ; EcoRI 5.8 ; PvuII 3.7, 2.1. ATCC Staff

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

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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.

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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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