



pRS421

87475™

Description

Saccharomyces cerevisiae vector useful for gene knockout experiments in hosts with a non-revertable met15 auxotrophic marker gene mutation.

- Yeast 14: 115-132, 1998

Clone type: Vector

Host: *Escherichia coli* HB101 (ATCC 33694)

Shipping information: *Escherichia coli* containing the plasmid in glycerol stock

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.

Insert Information

Target gene: O-acetylhomoserine sulfhydrylase

Vector Information

Construct size (kb): 6.23

Vector name: pRS421 (phagemid)

Type of vector: phagemid

Construction: pRS401, YEp24

Host range: *Saccharomyces cerevisiae*; *Escherichia coli*

Cloning sites: SacI; BstXI; SacII; EagI; NotI; SpeI; BamHI; SmaI; PstI; ClaI; Sall; XhoI; ApaI; KpnI

Insert detection: lacZ'

Markers: MET15; ampR

MCS: KpnI...SacI

Promoters: *In vitro* transcription T7; 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

Handling Procedures

Transfer a loopful to a test tube containing 5 mL LB+50 µg/mL of ampicillin broth. A loopful of culture can also be streaked on an LB + amp agar plate. Incubate cultures at 37°C. Isolate DNA using standard plasmid preparation procedures.

Notes

Restriction digests of the clone give the following sizes (kb): BamHI--6.2; EcoRI--1.7, 4.5; XbaI--3.2, 2.0, 1.0.

- ATCC staff

MET15, MET17 and MET25 are synonymous.

- SGD

met15 phenotype produces brown colonies when grown on Pb containing media.

- Yeast 14: 115-132, 1998

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRS421 (ATCC 87475)

References

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

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