



# 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

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### Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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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

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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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## Insert Information

**Target gene:** O-acetylhomoserine sulfhydrylase

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## 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

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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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## 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.

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## 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

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## Material Citation

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

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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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