



Product Sheet

## pAD2 (ATCC® 87469™)

Please read this FIRST



### 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: pAD2 (ATCC® 87469™)

### Shipping Information

Distributed: freeze-dried

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

### Description

**Designation:** pAD2

**Distribution Host:**

Distribution host: *Escherichia coli* unknown (ATCC 33694)

### Propagation

**Growth Conditions**

**Temperature:** 37°C

**Medium**

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

### Vector Information

Size (kb): 6.352

DESCRIPTION OF VECTOR:

Intact vector size: 6.352

Type of vector: phagemid

Cloning sites:

Polylinker sites:

Other unique sites: BamHI

Construction: pRS406

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

Features (with orientation and position when available):

marker(s): URA3, ->

replicon: f1, <-

other: LYS2 deleter cassette

replicon: pMB1

marker(s): ampR, <-

Vector: pAD2 (phagemid)

Construction: pRS406

Marker(s):URA3,ampR

Construct size (kb): 6.352

Features: marker(s): URA3

marker(s): ampR

other: LYS2 deleter cassette

replicon: f1

replicon: pMB1

### References

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

### Notes

Restriction digests of the clone give the following sizes (kb): KpnI--6.3;

KpnI/SstI--4.3, 2.0; ClaI--6.3.

- ATCC staff

Deleter vector for constructing designer yeast strains with a non-revertable deletion of a *lys2* auxotrophic marker.

- Yeast 14: 115-132, 1998

The two step selection process requires a *ura3* transformation host (this host can be created using pJL164 (ATCC 87471)). After transformation with the ClaI linearized vector, URA3 integrants are selected on *ura-* plates.

- Yeast 14: 115-132, 1998

The designer deletion strain is then recovered by selection on 5-FOA plates (loss of URA3 and LYS2 markers by a homologous recombination event).

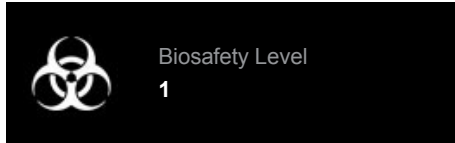
- Yeast 14: 115-132, 1998



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### 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.

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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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