



Product Sheet

## p416 GALL (ATCC® 87340™)

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: p416 GALL (ATCC® 87340™)

### 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:** p416 GALL

**Distribution Host:**

Distribution host: *Escherichia coli* HB101 (ATCC 33694)

### Propagation

**Growth Conditions**

**Temperature:** 37.0°C

**Medium**

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

### Vector Information

Size (kb): 5.5539999008178710

DESCRIPTION OF VECTOR:

Intact vector size: 5.554

Type of vector: plasmid

Cloning sites: XbaI SpeI BamHI SmaI EcoRI HindIII ClaI SalI XhoI

Polylinker sites: XbaI SpeI BamHI SmaI PstI EcoRI EcoRV HindIII ClaI SalI XhoI

Construction: pRS416, GALL promoter

Host range: *Saccharomyces cerevisiae*/*Candida robusta*; *Escherichia coli*

Features (with orientation and position when available):

marker(s): URA3, -, 200-1323

terminator: CYC1, -, 2005-2265

MCS: XhoI...XbaI, -, 2265-2328

promoter for expression: GALL, <-, 2329-2759

marker(s): ampR, <-, 4006-4936

centromere: CEN6/ARSH4, -, 5040-5554

Vector: p416 GALL (plasmid)

Promoters: Promoter for expression GALL

Construction: pRS416, GALL promoter

Marker(s):URA3,ampR

Construct size (kb): 5.553999900817871

Features: marker(s): URA3

marker(s): ampR

promoter for expression: GALL

MCS: XhoI...XbaI

terminator: CYC1

centromere: CEN6/ARSH4

### 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): BamHI--5.6;

EcoRI--5.6; SacI/XbaI--5.1, 0.43.

- ATCC staff

Low copy number shuttle expression vector.

- Nucleic Acids Res. 22: 5767-5768, 1994

One of 32 yeast expression vectors (ATCC 87318-87349) differing in promoter, selection marker and replicon.

- Nucleic Acids Res. 22: 5767-5768, 1994

The galactokinase (GALL) promoter is a deletion variant of GAL1, which lacks one of the 3 UAS elements required for full induction of the promoter by galactose.

- Nucleic Acids Res. 22: 5767-5768, 1994



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The promoter is tightly repressed by glucose and is induced at a moderate level by galactose.

- Nucleic Acids Res. 22: 5767-5768, 1994



### 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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