



Product Sheet

## p423 GAL1 (ATCC® 87327™)

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: p423 GAL1 (ATCC® 87327™)

### 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:** p423 GAL1

**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): 6.4889998435974120

DESCRIPTION OF VECTOR:

Intact vector size: 6.489

Type of vector: plasmid

Cloning sites: SpeI BamHI SmaI EcoRI EcoRV ClaI SalI XhoI

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

Construction: pRS423, GAL1 promoter

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

Features (with orientation and position when available):

marker(s): HIS3, -, 200-1395

terminator: CYC1, -, 2077-2337

MCS: XhoI...SpeI, -, 2337-2394

promoter for expression: GAL1, <-, 2401-2861

marker(s): ampR, <-, 4012-4942

replicon: 2 micron, -, 5042-6382

Vector: p423 GAL1 (plasmid)

Promoters: Promoter for expression GAL1

Construction: pRS423, GAL1 promoter

Marker(s): ampR, HIS3

Construct size (kb): 6.488999843597412

Features: marker(s): HIS3

marker(s): ampR

promoter for expression: GAL1

replicon: 2 micron

MCS: XhoI...SpeI

terminator: CYC1

### 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): SacI/XbaI--3.2, 2.8, 0.45; KpnI--5.5, 1.0; PstI--5.3, 1.2.

- ATCC staff

High 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

Expression from the galactokinase (GAL1) promoter is tightly repressed by glucose and is strongly induced by galactose.

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



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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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