ATCC

Product Sheet

p425 GAL1 (ATCC® 87331™)

Please read this FIRST

Biosafety Level
1

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: p425 GAL1 (ATCC® 87331™)

Shipping Information

Distributed: freeze-dried

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: p425 GAL1
Distribution Host:
Distribution host: *Escherichia coli* HB101 (ATCC 33694)

Propagation

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

Growth Conditions
Temperature: 37.0°C

Vector Information

Size (kb): 7.5399999618530270
DESCRIPTION OF VECTOR:
Intact vector size: 7.540
Type of vector: plasmid
Cloning sites: SpeI BamHI SmaI PstI HindIII SalI XhoI
Polylinker sites: XbaI SpeI BamHI SmaI PstI EcoRI EcoRV HindIII ClaI SalI XhoI
Construction: pRS425, GAL1 promoter
Host range: Candida robustaSaccharomyces cerevisiae; Escherichia coli
Features (with orientation and position when available):
marker(s): LEU2, ->, 200-2446
terminator: CYC1, ->, 3128-3388
MCS: XhoI...SpeI, ->, 3388-3445
promoter for expression: GAL1, <-, 3452-3912
marker(s): ampR, <-, 5063-5993
replicon: 2 micron, ->, 6093-7433
Vector: p425 GAL1 (plasmid)
Promoters: Promoter for expression GAL1
Construction: pRS425, GAL1 promoter
Marker(s):LEU2,ampR
Construct size (kb): 7.539999961853027
Features: marker(s): LEU2
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.

Notes

Restriction digests of the clone give the following sizes (kb): SacI/XbaI--3.9 (doublet); EcoRI--5.1, 2.4; KpnI--5.8, 1.7. It appears that the SacI site at the start of the GAL1 promoter has been lost.
- 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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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

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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