



Product Sheet

pIIIEx424 tRNA (ATCC® 87175™)

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: pIIIEx424 tRNA (ATCC® 87175™)

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: pIIIEx424 tRNA

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): 7.3000001907348630

DESCRIPTION OF VECTOR:

Intact vector size: 7.300

Type of vector: plasmid

Cloning sites: EcoRI

Polylinker sites:

Construction: pRS424

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

Features (with orientation and position when available):

marker(s): TRP1, -, 468-1142

replicon: f1, -, 1241-1707

insert detection: lacZ', <-

promoter for in vitro transcription: T7, -, 1867-1886

restriction site: Sall

terminator: RPR1, <-

restriction site: EcoRI

promoter: SUP4 tRNA intragenic promoter, <-

restriction site: BamHI

promoter for in vitro transcription: T3, <-

promoter: lac, <-

replicon: pMB1

marker(s): ampR, <-

replicon: 2 micron

Vector: pIIIEx424 tRNA (plasmid)

Promoters: Promoter for in vitro transcription T7

Construction: pRS424

Marker(s): TRP1, ampR

Construct size (kb): 7.300000190734863

Features: insert detection: lacZ'

marker(s): TRP1

marker(s): ampR

promoter: SUP4 tRNA intragenic promoter

promoter: lac

promoter for in vitro transcription: T3

promoter for in vitro transcription: T7

replicon: 2 micron

replicon: f1

replicon: pMB1

restriction site: BamHI

restriction site: EcoRI

restriction site: Sall

terminator: RPR1

References

References and other information relating to this product are available online at www.atcc.org.

Notes



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Restriction digests of the clone give the following sizes (kb): EcoRI--7.4;
BamHI--7.4; HindIII--5.2, 2.1.

- ATCC staff

One of a series of shuttle vectors (ATCC 87167 - 87182) designed for stable expression of small structured RNAs in yeast. The vectors differ in promoter/terminator cassettes, selectable markers, replicons, and copy number.
- Gene 151: 209-214, 1994

Constructed by insertion of a promoter/terminator cassette into the multiple cloning site of the shuttle vector pRS424.
- Gene 151: 209-214, 1994

Cloned inserts can be transcribed from the SUP4 tRNA gene intragenic promoter to produce structured pre-tRNA leaders fused to RNA corresponding to inserted sequences.
- Gene 151: 209-214, 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

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

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