ATCC

Product Sheet

YEpFAT4 (ATCC® 87642™)

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: YEpFAT4 (ATCC® 87642™)

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: YEpFAT4
Distribution Host:
Distribution host: *Escherichia coli* MC1066

Propagation

Medium
M9 + tryptophan + leucine

Growth Conditions
Temperature: 37.0°C

Vector Information

Size (kb): 7.0110001564025880
DESCRIPTION OF VECTOR:
Intact vector size: 7.011
Type of vector: plasmid
Cloning sites: NotI SacI SmaI BamHI XbaI
Polylinker sites: NotI EcoRI SacI AvaI KpnI SmaI BamHI XbaI
Other unique sites: HindIII
Host range: Schizosaccharomyces pombe; Saccharomyces cerevisiae; Escherichia coli
Features (with orientation and position when available):
promoter for in vitro transcription: T7, ->, 860-879
MCS: NotI...XbaI, ->, 908-942
replicon: 2 micron/LEU2-d, 941-3635
marker(s): LEU2-d, ->, 2298-3392
marker(s): URA3, <-, 3715-4517
restriction site: HindIII, 4740-4740
promoter for in vitro transcription: T3, <-, 4750-4769
promoter: lac, <-, 4839-4867
replicon: pMB1, 5193-5193
marker(s): ampR, <-, 5951-6811
Vector: YEpFAT4 (plasmid)
Promoters: Promoter for in vitro transcription T7
Marker(s):URA3,ampR,LEU2-d
Construct size (kb): 7.011000156402588
Features: marker(s): LEU2-d
marker(s): URA3
marker(s): ampR
promoter: lac
promoter for in vitro transcription: T3
promoter for in vitro transcription: T7
replicon: 2 micron/LEU2-d
replicon: pMB1
MCS: NotI...XbaI
restriction site: HindIII

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): BamHI--7.1; SmaI--7.1; EcoRI--5.0, 2.1. M9 + tryptophan medium recommended for DNA purification.
- ATCC staff

One of 9 YE-type shuttle vectors (ATCC 87541, 87554, 87560 an d 87640 - 87645) that have the leu2-d gene, which is correlated with high copy number in S.

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cerevisiae, when grown in medium lacking leucine.
- Mol. Cell. Biol. 9: 1488-1497, 1989

Selection for URA3 expression produces a plasmid copy number of 20-40; growth on YC minus leucine produces a copy number of 100-200.
- Mol. Cell. Biol. 9: 1488-1497, 1989

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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