



Product Sheet

## YE<sub>p</sub>FAT4 (ATCC<sup>®</sup> 87642<sup>™</sup>)

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: YE<sub>p</sub>FAT4 (ATCC<sup>®</sup> 87642<sup>™</sup>)

### 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:** YE<sub>p</sub>FAT4  
**Distribution Host:**  
Distribution host: *Escherichia coli* MC1066

### Propagation

**Growth Conditions**  
**Temperature:** 37.0°C  
**Medium**  
M9 + tryptophan + leucine

### 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 Aval 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: YE<sub>p</sub>FAT4 (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](http://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

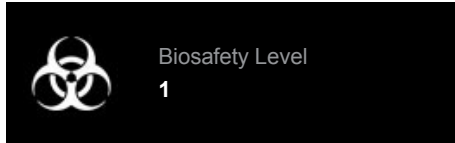
One of 9 YE-type shuttle vectors (ATCC 87541, 87554, 87560 and 87640 - 87645) that have the leu2-d gene, which is correlated with high copy number in S.



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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](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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