




Product Sheet

# lambdaACT2 - human breast cDNA library (ATCC® 87295™)


*Homo sapiens*

Please read this FIRST



Storage Temp.  
**-80°C or colder**

---



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: *Homo sapiens* (ATCC® 87295™)

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

Frozen stock of bacteria-free phage lysate (volume 0.4 mL)

**Designation:** lambdaACT2 - human breast cDNA library

## Notes

In yeast, the ADH promoter drives expression of a fusion protein consisting of the GAL4 activation domain, a hemagglutinin tag and the sequences directed by the insert. This library should be propagated at 30°C.

## Distributed In

*Escherichia coli* LE392 (ATCC 33572) (for amplification)

*Escherichia coli* BNN132 (ATCC 47059) (for cre-lox based conversion to plasmid)

## Vector Information

**Genome:** human

**Tissue:** breast

**Type of DNA:** cDNA

**Insert size:** 0.7 – 7 kb

**Number of independent recombinants:** 1.0 x 10<sup>8</sup>

**Non-recombinants (%):** 5.0

**Insert 5' end:**

**Insert 3' end:** XhoI adapters

**Titer:** 9.5 x 10<sup>8</sup> pfu/mL

**Vector:** lambdaACTII

**Intact vector size (kb):** 42.300

**Type of vector:** phage

### Features:

**Cloning sites:** NcoI SfiI SmaI BamHI EcoRI XhoI BglII

**Promoter:** ADCl

**Replicon:** pMB1, 2 micron, lambda

**Repressor gene:** cI857

**Terminator:** ADC1

**Construction:** lambdaYES, pACT2 (ATCC#87006)

**Vector ends:** EcoRI, XhoI

**Markers:** ampR, LEU2

## Propagation

### Growth Conditions

**Temperature:** 30°C

### Titering and Storage of ATCC Libraries in Bacteriophage Lambda Vectors

#### Titering:

1. Make fresh plating bacteria. Grow *E. coli* host strain overnight or at least to  $A_{600} = 0.4$  in medium containing 0.2% maltose (to give higher titers).
2. Spin down cells in a low speed centrifuge. Resuspend in 0.4 volumes 10 mM MgSO<sub>4</sub> or SM buffer. Store at 4°C.
3. Prepare a dilution series of the lysate. Dilute phage in 10 mM MgSO<sub>4</sub> of SM buffer. Mix gently because vigorous mixing reduces the titer.
4. Add 100 µL phage dilution to 100 µL prepared plating bacteria and mix gently. Incubate in a 30°C water bath for 20 minutes to allow phage to adsorb.
5. Add 3 mL LB lambda top agar (see below) containing 0.2% maltose and mix gently. Pour onto plates. Incubate overnight at 30°C. Fresh plates give larger plaques.

#### Storage:

Libraries can be frozen in liquid nitrogen with no significant loss in titer, even after repeated freeze-thaw cycles. The libraries on dry ice can be stored at 4°C or can be kept frozen at -70°C or in liquid nitrogen. Always freeze by plunging into liquid nitrogen.

LB Lambda top agar medium:




## Product Sheet

# lambdaACT2 - human breast cDNA library (ATCC® 87295™)


## *Homo sapiens*

### Please read this FIRST



Storage Temp.  
**-80°C or colder**

---



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: *Homo sapiens* (ATCC® 87295™)

NaCl, 5 g  
Tryptone, 10 g  
Yeast extract, 5 g  
Distilled water to 1 L

Sterilize at 121°C, 15 minutes. Cool to approximately 50°C and add the following sterile solutions.

1M CaCl<sub>2</sub>, 5 mL  
MgSO<sub>4</sub>·H<sub>2</sub>O to a final concentration of 0.2% w/v  
50% maltose, 5 mL

For solid media, add 7 g agar or agarose (for top agar) per liter or 15 g agar for basal medium prior to autoclaving.

Reference:  
*Biotechniques* 5: 724-728, 1987.

### References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

### 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. While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate. This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures. 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).  
© ATCC 2013. All rights reserved. ATCC is a registered trademark of the American Type Culture Collection. [04/02]

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