




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

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: 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: 1.0×10^8

Non-recombinants (%): 5.0

Insert 5' end:

Insert 3' end: XhoI adapters

Titer: 9.5×10^8 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 $MgSO_4$ or SM buffer. Store at 4°C.
3. Prepare a dilution series of the lysate. Dilute phage in 10 mM $MgSO_4$ of SM buffer. Mix gently because vigorous mixing reduces the titer.
4. Add 100 μ L phage dilution to 100 μ L 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:




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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 CaCl₂, 5 mL
MgSO₄·H₂O 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.

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.

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