




Product Sheet

## GL1 (ATCC® 77440™)


### *Homo sapiens*

Please read this **FIRST**

Storage Temp.  
**Store unopened frozen vial at -80°C or lower.**  
Vapor phase liquid nitrogen is preferred for long term storage.



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 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® 77440™)

#### Shipping Information

Frozen bacteria-free phage lysate.

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

Distributed as a bacteria-free phage lysate

**Designation:** GL1

#### Notes

The cDNA synthesis was primed by oligo-dT, and a synthetic oligonucleotide (5' GCTTGAATTCAAGC 3') was added for directional cloning.

#### Distributed In

*Escherichia coli* LE392 (ATCC 33572) (Genotype : F- supE44 supF58 lacY1 or deltalac(I-Y)6 galK2 galT22 metB1 trpR55 hsdR mcrB recA lambda-)

#### Vector Information

Vector : lambda SHK

Intact vector size (kb) : unknown

Vector type : phage

Construction : Charon BS, pSH4

Features (with orientation and position, when available) :

Marker : kanR (KmR)

Replicon : lambda, pMB1

Terminator : SV40 T antigen

#### Propagation

Thaw contents of the vial in a 37°C water bath with gentle agitation until no ice crystals remain. Library can be diluted and plated following standard protocols. Recommended growth media is LB. Recommended growth temperature is 37°C.

Starting and Amplifying ATCC Bacteriophage Lambda Clones and Vectors:

1. Prepare fresh plating bacteria. Grow *E. coli* host strain overnight or at least to A600 = 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 until ready to use. These cells are good for up to 2 weeks if stored at 4°C.
3. Open freeze dried vial containing the phage according to instructions. Aseptically add 0.3 to 0.4 ml of liquid medium to the freeze-dried pellet and mix well.
4. Pipette 100 µl of the host suspension to a sterile test tube. Add 3 ml. of warm (50°C) LB lambda top agar (see below) containing 0.2% maltose and mix gently. Pour onto plates. Allow the plates to solidify.
5. Spot a loopful or two of the phage suspension on the lawn of the freshly poured bacteria.
6. Incubate overnight at 37°C. Fresh plates give larger plaques.
7. Cut plaques out of agar and add them to 0.5 ml of 10 mM MgSO<sub>4</sub> or SM buffer and store at 4°C overnight.
8. Add 100 µl of the overnight phage dilution to 100 µl prepared plating bacteria and mix gently. Incubate in a 37°C water bath for 20 minutes to allow phage to adsorb.
9. Add 3 ml. LB lambda top agar containing 0.2% maltose and mix gently. Pour onto plates. Incubate overnight at 37°C.
10. Invert open plate over a chloroform-saturated adsorbent paper for 10 minutes.
11. Add 7.5 ml of 10 mM MgSO<sub>4</sub> or SM buffer to the plate and allow it to stand at room temp for 1 hour or in 4°C overnight.
12. Collect and save the liquid on the plate. This should be a high titer lysate. Add a few drops of chloroform if its going to be stored for more than a few days.

LB Lambda top agar medium:

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




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#### 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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#### 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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