



Product Sheet


## EY2 [ $\lambda$ LASEY2] (ATCC<sup>®</sup> 77439<sup>™</sup>)

### *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<sup>®</sup> 77439<sup>™</sup>)

#### 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:** EY2 [ $\lambda$ LASEY2]

#### Notes

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

Notes about the vector: This is a vector for high-efficiency directional cloning. Clones can be converted to plasmids by recircularization after a NotI digest.

#### Distributed In

*Escherichia coli* K802 recA- (ATCC 47026) (Genotype : F- supE44 lacY1galK2 galT22 metB1 trpR55 hsdR mcrB recA Lambda-)

#### Vector Information

Vector :Charon BS- (ATCC 77446)

Cloning capacity : < 8.9 kb

Vector type : phage

Intact vector size (kb) : 43.1

Construction : Charon 15, pBluescript KS M13(-)

Features : (with orientation and position, when available) :

Insert detection : lacZ', <--

Other : left arm : -->, 1-21225

Other : pBluescript KS - -->, 21226-24184

MCS : NotI?KpnI, -->, 21226-21315

Promoter for in vitro transcription : T3, <--, 21327-21346

Promoter : lac, <--, 21416-21444

Replicon : pMB1, 21771

Marker : ampR, <--, 22529-23389

Replicon : f1, -->, 23520-23976

Promoter for in vitro transcription : T7, -->, 24140-24159

MCS : SacI?NotI, -->, 24172-24184

Other : right arm, -->, 24185-43100

#### 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  $\mu$ l 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  $\mu$ l of the overnight phage dilution to 100  $\mu$ l 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




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**Shipping Information**

Frozen bacteria-free phage lysate.

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



**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**

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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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