




Product Sheet

lambdaMGU2 *C. elegans* cDNA library (ATCC® 77366™)

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.

 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: lambdaMGU2 *C. elegans* cDNA library (ATCC® 77366™)

Shipping Information

Frozen bacteria-free phage lysate

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

Designation: lambdaMGU2 *C. elegans* cDNA library

Distribution Host: *Escherichia coli* q358 (ATCC® 47018™) (for propagation)

Escherichia coli 1046 [pCRE1] (ATCC® 77368™) (for conversion to phagemid)

Vector Information

Library information:

Genome: *Caenorhabditis elegans*

Strain: N2

Type of insert: cDNA

Vector: lambdaMGU2

Insert size range (kb): 2-3 kb average

Vector ends: Modification: BamHI

Number of independent recombinants: 1.0 x 10⁷

Titer: 5 x 10⁷ pfu/mL

Vector information:

Vector: lambdaMGU2

Vector type: phage

Intact vector size (kb): 41.7

Construction: lambda2690, pMGU

Features:

Insert detection: Spi+

Marker: ampR

Replicon: lambda, pMB1, m13

References

References and other information relating to this product are available online at www.atcc.org.

Notes

To prepare phagemid from lambdaMGU2, grow recombinants on a RecA- host expressing the Cre protein such as *E. coli* 1046 [pCRE1] (ATCC77368) and select for ampicillin resistance. The pMGU product is 4.185 kb. Efficiency of phagemid recovery is approximately 20%. Plasmid pCRE1 may be a low level contaminant, but is easily distinguished from pMGU DNA. Inserts can be amplified using the following primers flanking the BamHI cloning site : upstream 5' -AAGAGGCAGAACTGGCAG-3' and downstream 5' - ATCGATGCATAGCGATTC-3'. The order of the major features in the cloning region of the lambda vector is : lambda J - SmaI - Sall - loxP - EcoRI - M13 ori - ampR - pMB1 ori - hindIII - 3'gam/BamHI/5'gam - XhoI - loxP - lambda N.
- Gene 120 : 135-141, 1992.
Single stranded DNA may be recovered from phagemid constructs using M13KO7 helper phages.
- Gene 120 : 135-141, 1992

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



Product Sheet

**lambdaMGU2 *C. elegans*
cDNA library (ATCC®
77366™)**

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.

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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

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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