
Product: Xenopus tropicalis IMAGE cDNA Clones

Catalog #: EXT1168



The IMAGE consortium was formed in 1993 to provide a public resource to aid in gene discovery that would be free of patents/royalties and other restrictions¹. The IMAGE clone collection provides the community a resource of arrayed cDNA clones from various research efforts. The clones are from oligo dT-primed, directionally cloned plasmid cDNA libraries from human, mouse, rat, zebrafish, Fugu, Xenopus and primate sources. The Cancer Genome Anatomy Project (CGAP) was formed in 1996 to investigate genes associated with cancerous cells at the molecular level. As a result, CGAP is responsible for thousands of expressed sequence tags (ESTs), which are continuously added to the IMAGE collection.

Clone storage

4°C for up to one week
-80°C indefinitely

Product description

Bacterial culture of *E. coli* in LB broth with an inert growth indicator + 8% glycerol + the appropriate antibiotic. (Ampicillin (red cap) – 100µg/mL, Chloramphenicol (black cap) – 25µg/mL, Kanamycin (green cap) – 100µg/mL)

Making a stock culture

Once the clone has been streak isolated and the identity of the strain has been confirmed, we recommend making a stock of the pure culture. Grow the pure culture in LB broth + the appropriate antibiotic. Transfer 920µL of culture into a polypropylene tube and add 80µL sterile glycerol to make an 8% glycerol freezing solution. Vortex the culture to evenly mix the glycerol throughout the culture. The culture can be stored indefinitely at -80°C.

Verifying cDNA clones

We recommend picking at least 5 independent colonies for verification to ensure that the clone of interest is derived from a single isolate.

Via Restriction Digest:

- Caution: This is only viable if the insert has been fully sequenced or the size of the insert is reported in GenBank.
- To locate the restriction enzymes used to construct a particular clone, visit the Open Biosystems website, www.openbiosystems.com, and utilize the clone query to access restriction site information. The Open Biosystems Clone Query provides a rapid means of locating relevant clone information. Simply enter a clone ID number or GenBank accession number into the query box, choose the query type (i.e. search by accession number or clone ID), and click "go". (See Figure 1)

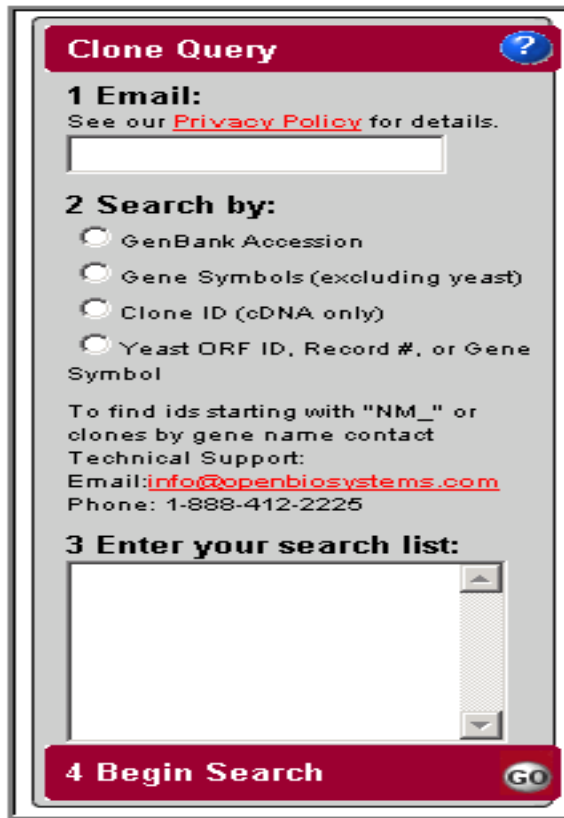


Figure 1: Open Biosystems Clone Query

Clicking the “details” link on the query result page will display the clone information page containing collection information, tissue of origin, restriction sites used for cloning, vector, and sequence information. (See Figure 2)

BUY	SEARCH ON CATALOG NUMBER	COLLECTION	SOURCE ID	IMAGE ID	ACCESSION	LIBRARY	VECTOR	HOST	DETAILS	
<input type="checkbox"/>	3345575	MHS1011-61064	IRAU	1234	3345575	BE268039 BC007656	NIH_MGC_8	lymph cell line	pOTB7	DH10B (phage-resistant) details
Check All Uncheck All										
					<input type="button" value="Add Selected To Cart"/>		<input type="button" value="New Search"/>			

Figure 2: Open Biosystems Clone Query Results

- Note: If the clone was constructed using a common cutting restriction enzyme, please consider using an alternate enzyme to ensure that your insert is not being cut as well.
- Note: The construction description may reveal that one or both restriction sites were disrupted upon insertion. In this case, you will need to choose alternate restriction enzymes.
- A helpful restriction mapping tool is located at www.restrictionmapper.org
- Vector information can be found at <http://image.llnl.gov/image/html/vectors.shtml>

Via Sequencing:

- Sequencing primers for the various vectors can be found at <http://image.llnl.gov/image/html/vectors.shtml>
- Note: Some clones only have sequence information from one end of the insert posted on GenBank. Please make sure to compare sequence information from the SAME end as what is posted on the public database.
- A useful tool for comparing the sequence obtained to the sequence expected is to perform a pairwise BLAST. The link to this feature on the NCBI website is: <http://www.ncbi.nlm.nih.gov/blast/bl2seq/bl2.html>. Simply enter the sequence you obtained in the “sequence 1” block and enter the GenBank accession number corresponding to the clone ID ordered in the “Accession or GI” sequence 2 block. (See Figure 3)

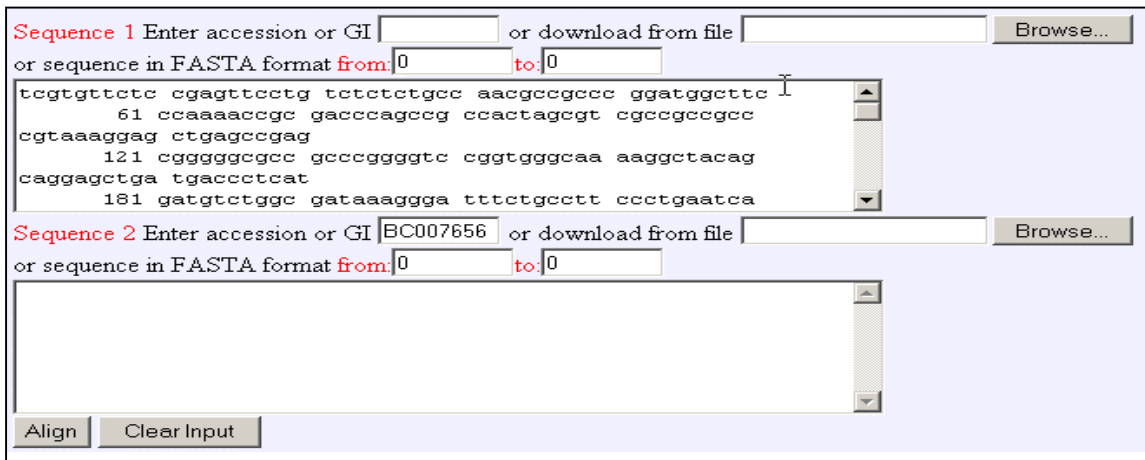


Figure 3: Pairwise BLAST

Webshot courtesy of the NCBI website. <http://www.ncbi.nlm.nih.gov/blast/bl2seq/bl2.html>

Useful websites and references

National Center for Biotechnology Information <http://www.ncbi.nlm.nih.gov/>

The IMAGE Consortium <http://image.llnl.gov/>

¹ The IMAGE Consortium: An Integrated Molecular Analysis of Genomes and Their Expression, *Genomics*, **33**: 151-2, 1996



The IMAGE Consortium Good Faith Agreement (revised 9/00)

AGREEMENT IN GOOD FAITH CONCERNING USE AND DISTRIBUTION OF ARRAYED cDNA CLONES

You are being provided with IMAGE Consortium [LLNL] cDNA clones (CLONES) and/or associated products (PRODUCTS) (referred to collectively as "IMAGE MATERIALS"), in order to advance the public interest and to advance the objectives of the institutions that developed the original libraries from which these clones were derived (Originators). The Originators are the beneficiaries of, and may independently enforce, this Agreement.

USE OF IMAGE MATERIALS

By accepting IMAGE MATERIALS you are agreeing in good faith to the following terms. If you are unable to agree to these terms, you must immediately return IMAGE MATERIALS along with all copies and replicas thereof.

(a) You will use the IMAGE MATERIALS in compliance with all applicable laws, governmental regulations and guidelines, including National Institutes of Health guidelines or their equivalent, and any regulations or guidelines pertaining to research with humans, or animals, or with recombinant DNA.

(b) You may use CLONES to produce PROGENY, and to create DERIVATIVE PRODUCTS. You may use IMAGE MATERIALS, PROGENY, and DERIVATIVE PRODUCTS for commercial or non-commercial purposes, except for the purpose of redistribution of CLONES or PROGENY. Accordingly, you may transfer CLONES or PROGENY to additional parties only if 1) this document in its entirety accompanies CLONES or PROGENY, and 2) you transfer CLONES or PROGENY at no cost to such additional parties. "PROGENY" means an unmodified descendant from CLONES or any comparable bacterial stock derived from CLONES (STOCK). "DERIVATIVE PRODUCTS" means any modification or product of CLONES or PRODUCTS that is not a PROGENY or a STOCK.

(c) You will include the unique and specific identifier of each arrayed clone (which was initially assigned by Lawrence Livermore National Laboratory, Livermore, California, and accompanies the IMAGE MATERIALS) in data pertaining to the IMAGE MATERIALS submitted to public databases and in resulting publications. This nomenclature consists of the term "IMAGE Consortium CloneID" followed by a five to seven digit number. You will refer publicly (including but not limited to electronic and print versions of articles and databases) to these arrayed cDNA clones as the "IMAGE Consortium [LLNL] cDNA Clones", and will reference the following publication: "The IMAGE Consortium: An Integrated Molecular Analysis of Genomes and their Expression," Lennon, G.G., Auffray, C., Polymeropoulos, M., and Soares, M.B. [1996] Genomics 33, pgs. 151-152. In INTERNET/World Wide Web publications and databases, you agree to provide electronic referencing (e.g. 'anchors' and/or 'hotlinks') to the IMAGE Consortium home page, currently located at URL <http://image.llnl.gov>.



(d) YOU AGREE THAT THE IMAGE MATERIALS ARE EXPERIMENTAL IN NATURE AND ARE BEING PROVIDED WITHOUT WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR FREEDOM FROM INFRINGEMENT OF ANY PATENT OR OTHER PROPRIETARY RIGHT OF A THIRD PARTY.

(e) YOU AGREE TO HOLD HARMLESS AND INDEMNIFY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, LAWRENCE LIVERMORE NATIONAL LABORATORY, THE DEPARTMENT OF ENERGY, THE U.S. GOVERNMENT, THE ORIGINATORS OF THE LIBRARY FROM WHICH CLONES WERE ARRAYED, THE PROVIDER OF THE IMAGE MATERIALS AND PERSONS ACTING ON THEIR BEHALF, FOR ANY CLAIM ASSERTED BY A THIRD PARTY RELATED TO YOUR POSSESSION, USE, STORAGE, OR DISPOSAL OF THE IMAGE MATERIALS.

(f) You understand that the ownership of the unarrayed cDNA libraries from which clones were arrayed is retained by the Originators of those libraries. Any new patentable developments or inventions first made by any party using the arrayed clones will remain the property of the inventing party. This Agreement does not constitute the Originators' waiver of any patent rights.

ADMINISTRATION

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<http://image.llnl.gov/image/html/GFA.shtml>