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**Product: CalTech Mouse BAC Clones**

Catalog #: BMM1215



The Hiroaki Shizuya laboratory at the California Institute of Technology has developed the CitbCJ7 mouse BAC library from the ES cell line/129Sv that Open Biosystems is proud to make available to the research community. This library represents a genomic coverage of 8X. The whole collection as well as individual clones are available for purchase. Detailed information on the construction of the libraries can be found at [http://informa.bio.caltech.edu/idx\\_www\\_tree.html](http://informa.bio.caltech.edu/idx_www_tree.html).

**Storage**

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

**Product Description**

Bacterial culture of *E. coli* DH10B in LB broth with an inert growth indicator + 8% glycerol + chloramphenicol (black cap) at a concentration of 25µg/mL.

**Making a stock culture**

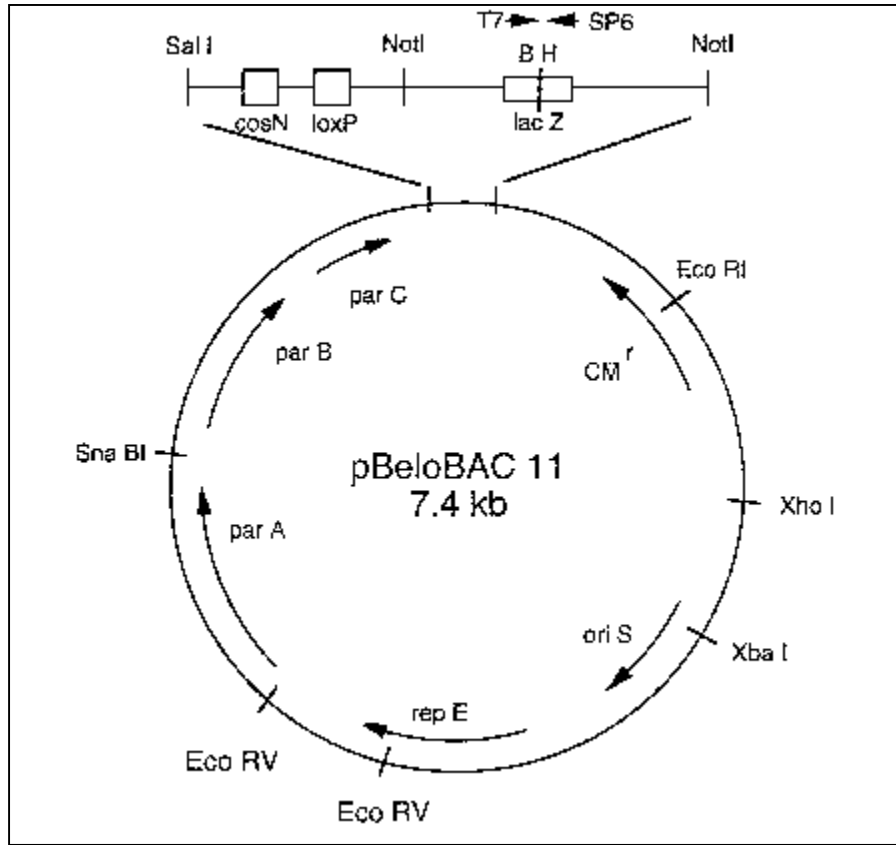
Once the clone has been streak isolated and the identity of the strain has been confirmed, we recommend making a stock of the pure culture. Grow the pure culture in LB broth + chloramphenicol at a concentration of 25µg/mL. Transfer 920µL of culture into a polypropylene tube and add 80µL sterile glycerol 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.

Library Name	Plate Numbers	Source Material	Avg. Insert Size	Cloning Site
Citb/CJ7	1-612	ES cell line/129Sv	130 kb	HindIII

**Maps and sequence information for pBeloBAC11**

Map can be found at [http://informa.bio.caltech.edu/idx\\_www\\_tree.html](http://informa.bio.caltech.edu/idx_www_tree.html) under protocols, under "Construction of the BAC library" (See Figure 1)

Sequence: Genbank accession - U51113 (<http://www.ncbi.nlm.nih.gov/>)



**Figure 1: Vector map of pBeloBAC11<sup>1,2</sup>**  
 Webshot courtesy of Caltech Genome Research Laboratory website.

### Useful websites and references

GenBank on NCBI <http://www.ncbi.nlm.nih.gov/>

Information on the CalTech libraries [http://informa.bio.caltech.edu/idx\\_www\\_tree.html](http://informa.bio.caltech.edu/idx_www_tree.html)

<sup>1</sup> Wang, K. *et al.* (1997) Complete nucleotide sequence of two generations of a bacterial artificial chromosome cloning vector. *Biotechniques* Dec;23(6):992-4.

<sup>2</sup> Hiroaki Shizuya, Bruce Birren, Ung-Jin Kim, Valeria Mancino, Tatiana Slepak, Yoshiaki Tachiiri, and Melvin I. Simon (1992) A bacterial cloning system for cloning large human DNA fragments. *Proc. Natl. Acad. Sci., USA*, 89:8794-8797.