
Product: Mere Mouse BAC Clones

Catalog #: BMM1035



Dr. Julie Korenberg's lab at Cedars-Sinai Medical Center has created a resource of 156 fluorescent in-situ hybridization (FISH) mapped BAC clones spanning the mouse genome at an average resolution of 19 Mb. Forty-two of these clones are linked to the centromeric and telomeric ends of the Whitehead/MIT recombinational maps. These clones can be used in gene mapping and genetic analyses in fetal and adult mouse models.¹ The project website can be found at <http://www.csmc.edu/genetics/korenberg/korenberg.html>.

Storage

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

Product Description

Bacterial culture of *E. coli* 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.

BAC clone details

Library of origin: CITB mouse BAC library
Tissue library was constructed from: CJ7/129SV embryonic stem (ES) cells²
Vector: pBeloBAC11
Average insert size: 130Kb

Map and sequence information for the vector

pBeloBAC11 – Map can be found at 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/>

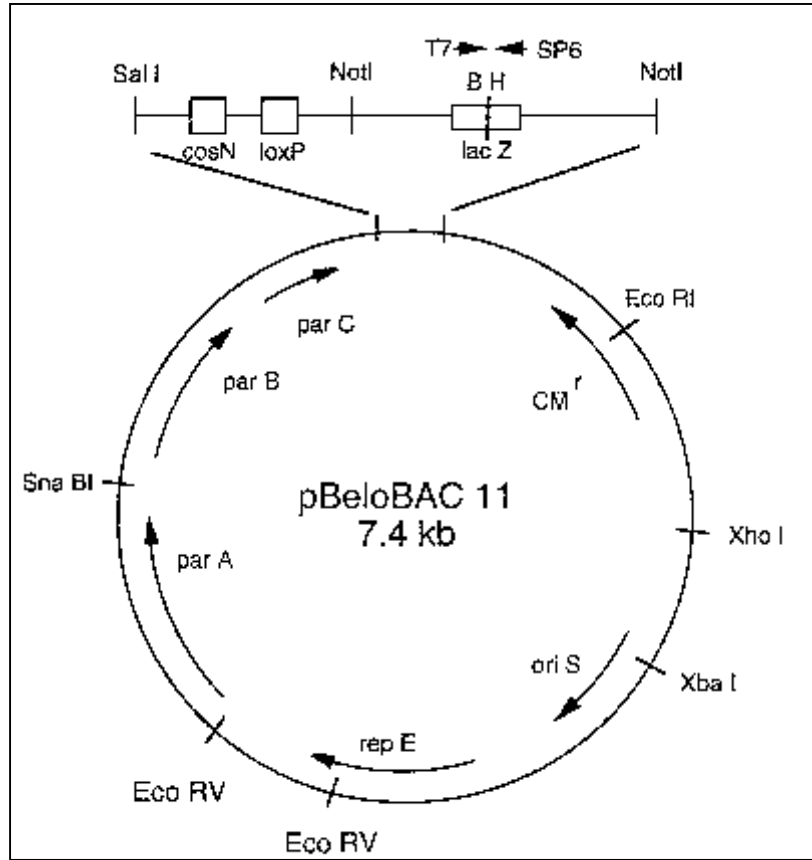


Figure 1: Vector map of pBeloBAC11^{3,4}

Webshot courtesy of the Caltech Genome Research Laboratory website.
http://informa.bio.caltech.edu/idx_www_tree.html

Useful websites and references

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

Information on Dr. Korenberg's collection

<http://www.csmc.edu/genetics/korenberg/korenberg.html>

Information on the CITB Mouse BAC library

http://informa.bio.caltech.edu/idx_www_tree.html

¹ Korenberg, J.R., *et al.*, Mouse molecular cytogenetic resource: 157 BACs link the chromosomal and genetic maps, *Genome Res.*, 9(5):514-23, 1999.

² Swiatek, P.J. and T. Gridley, *Genes and Development*, 7:2071-2084, 1993.

³ Wang, K. *et al.* (1997) Complete nucleotide sequence of two generations of a bacterial artificial chromosome cloning vector. *Biotechniques*. Dec;23(6):992-4.

⁴ 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.