Tel: 1-888-762-2568 Fax: 1-510-783-5386 Email: info@biochain.com

User's Manual and Instructions

cDNA Library

Catalog Number: Bxxxxxxx

Introduction

Making cDNA libraries is an art as well as science. It takes great skills, knowledge, as well as experience to make high quality cDNA libraries. The cDNA libraries provided by BioChain are subjected to rigorous quality control testing to ensure they are of the highest quality.

Features

- 10^6 minimum numbers of primary clones, and $3x10^6$ average numbers of primary clones
- At least 87% of recombinant clones, and 95% average of recombinant clones
- Insert size at least 1 kb, and average insert size 1.5 kb

Application

- Conventional library screening
- PCR amplification
- cDNA expression

Library Protocols

Plating the Plasmid cDNA Library

1. Dilute a portion of the library with SOC and spread onto LB plates containing 100 µg/ml ampicillin.
2. Perform colony hybridization according to Maniatis.Sambrook, J., Fritsch, E.F., and Maniatis, T. (1989) Molecular Cloning: A Laboratory Manual, 2nd Ed. Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.

Preparation of dsDNA from the Plasmid cDNA Library

1. Inoculate 100 ml of Luria Broth containing 100 µg/ml ampicillin with 2.5×10^6 cells.
2. Grow the cells overnight at 30°C.
3. Process the culture according to general plasmid maxipreparation.

This product is distributed for laboratory research use only. CAUTION: Not for diagnostic use. The safety and efficacy of this product in diagnostic or other clinical uses has not been established.

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BioExpress multiple cloning site and primer binding regions: 641-836 (The sequence listed here is the –strand)

700
•
M13/pUC Forward 23-Base Sequencing Primer T7 Promoter Primer
5'- CC CAGTCACGAC GTTGTAAAAC G -3' 5'- TAATACGACT CACTATAGGG –3'
5'- GCAGTTTTCC CAGTCACGAC GTTGTAAAAC GACGGCCAGT GCCTAGCTTA TAATACGACT CACTATAGGG ACCACTCCTC

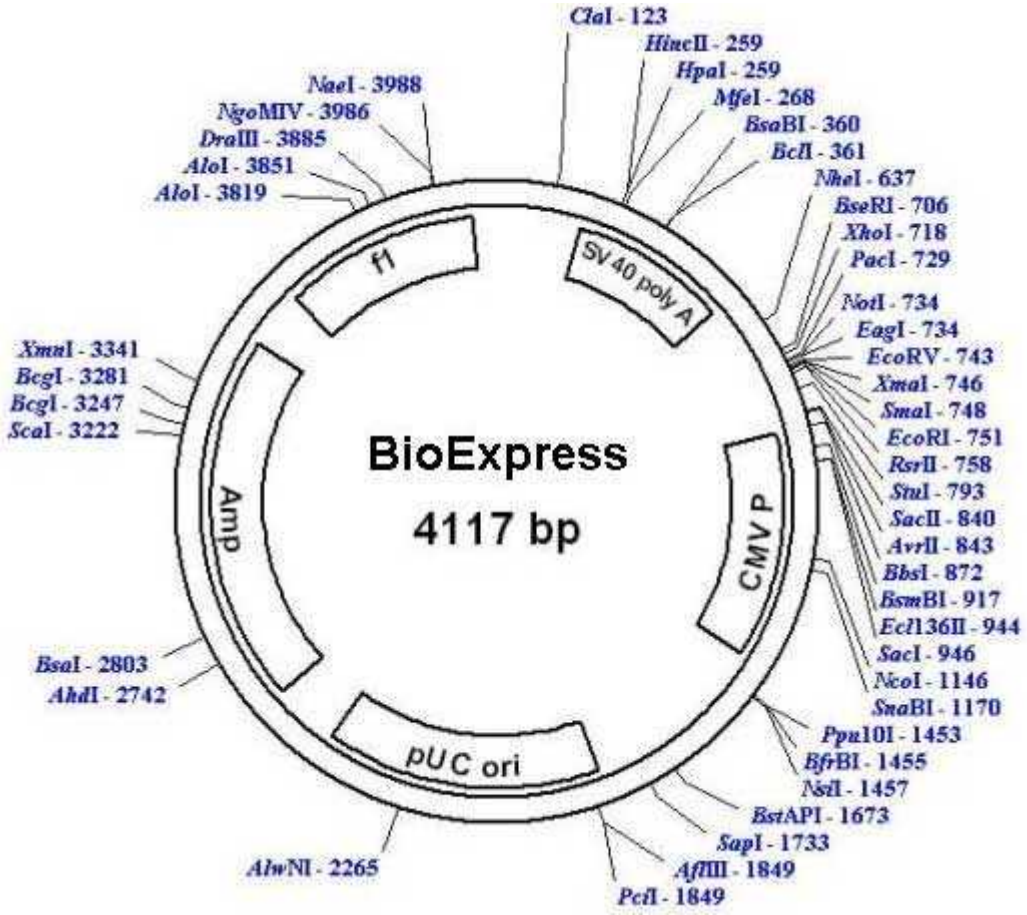
I---------T7 Promoter---------I

cDNA

I---------SP6 Promoter---------I
GAGGTTAATT AAGCGGCCGC CC ATCCCGGG AATTCCGGAC CGAAACTTGT TCTATAGTGT CACCTAAATA
Xho I Pac I Not I Sma I Eco RI Rsr II 3'-GATATCACA GTGGATTTA –5'

SP6 Promoter Primer
800
•
GGCCTAATGG TCATAGCTGT TTCCTGTGTG AAATTGTTAT CCGCT-3'
3'-GGACACAC TTTAACAATAGGCGA-5'
M13/pUC Reverse 23-Base Sequencing Primer

Map and Multiple Cloning Site of Plasmid BioExpress


ClaI - 123
HincII - 259
HpaI - 259
MfeI - 268
BsaBI - 360
BclI - 361
NheI - 637
BseRI - 706
XhoI - 718
PacI - 729
NotI - 734
EagI - 734
EcoRV - 743
XmaI - 746
SmaI - 748
EcoRI - 751
RsrII - 758
StuI - 793
SacII - 840
AvrII - 843
BbsI - 872
BsmBI - 917
Ecl136II - 944
SacI - 946
NcoI - 1146
SnaBI - 1170
Ppu10I - 1453
BfrBI - 1455
NsiI - 1457
BstAPI - 1673
SapI - 1733
AflIII - 1849
PciI - 1849
AlwNI - 2265
BsaI - 2803
AhdI - 2742
XmnI - 3341
BcgI - 3281
BcgI - 3247
ScaI - 3222
NaeI - 3988
NgoMIV - 3986
DraIII - 3885
AloI - 3851
AloI - 3819
f1
SV40 poly A
CMV P
Amp
pUC ori
BioExpress
4117 bp