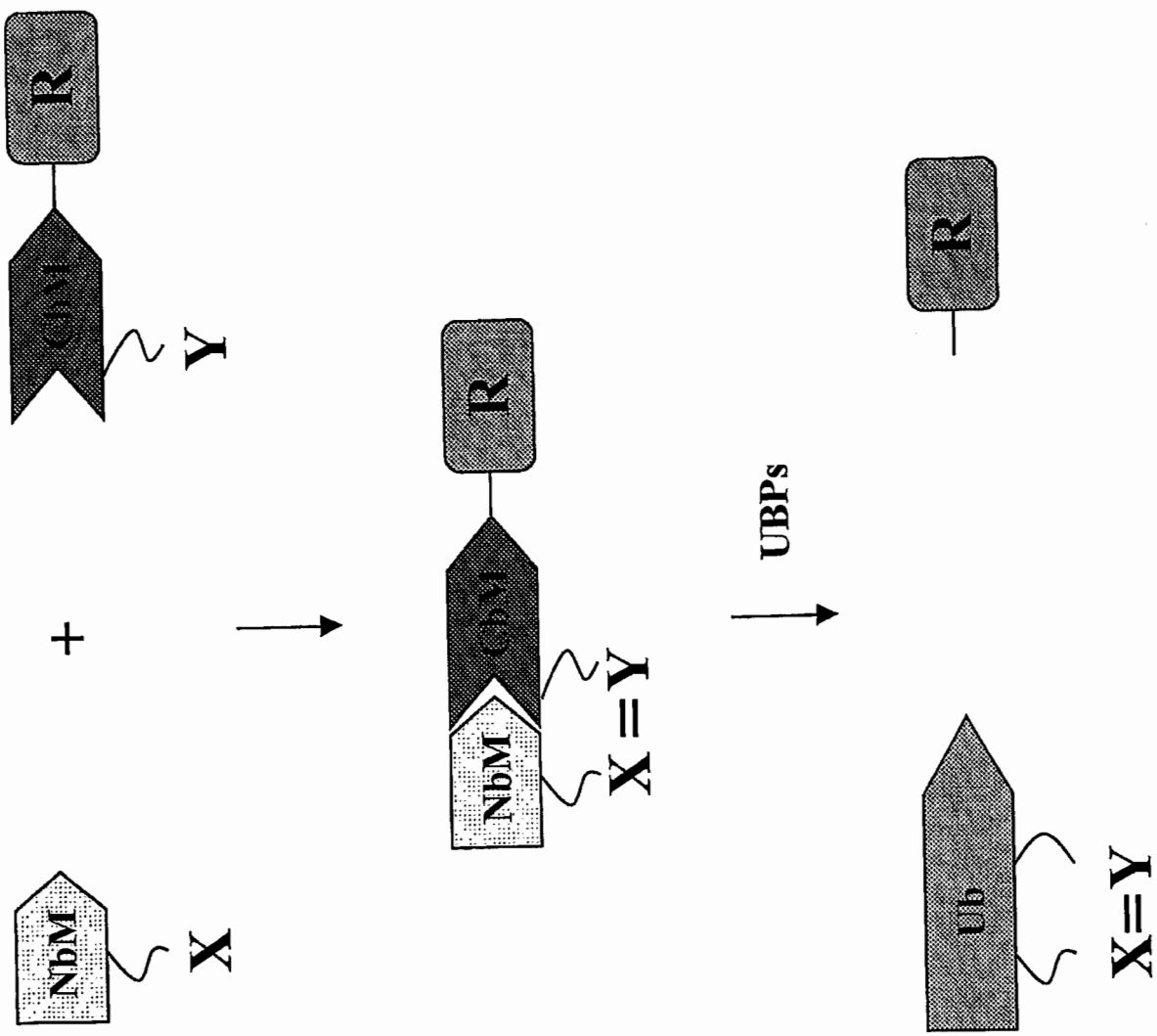
Figure 1



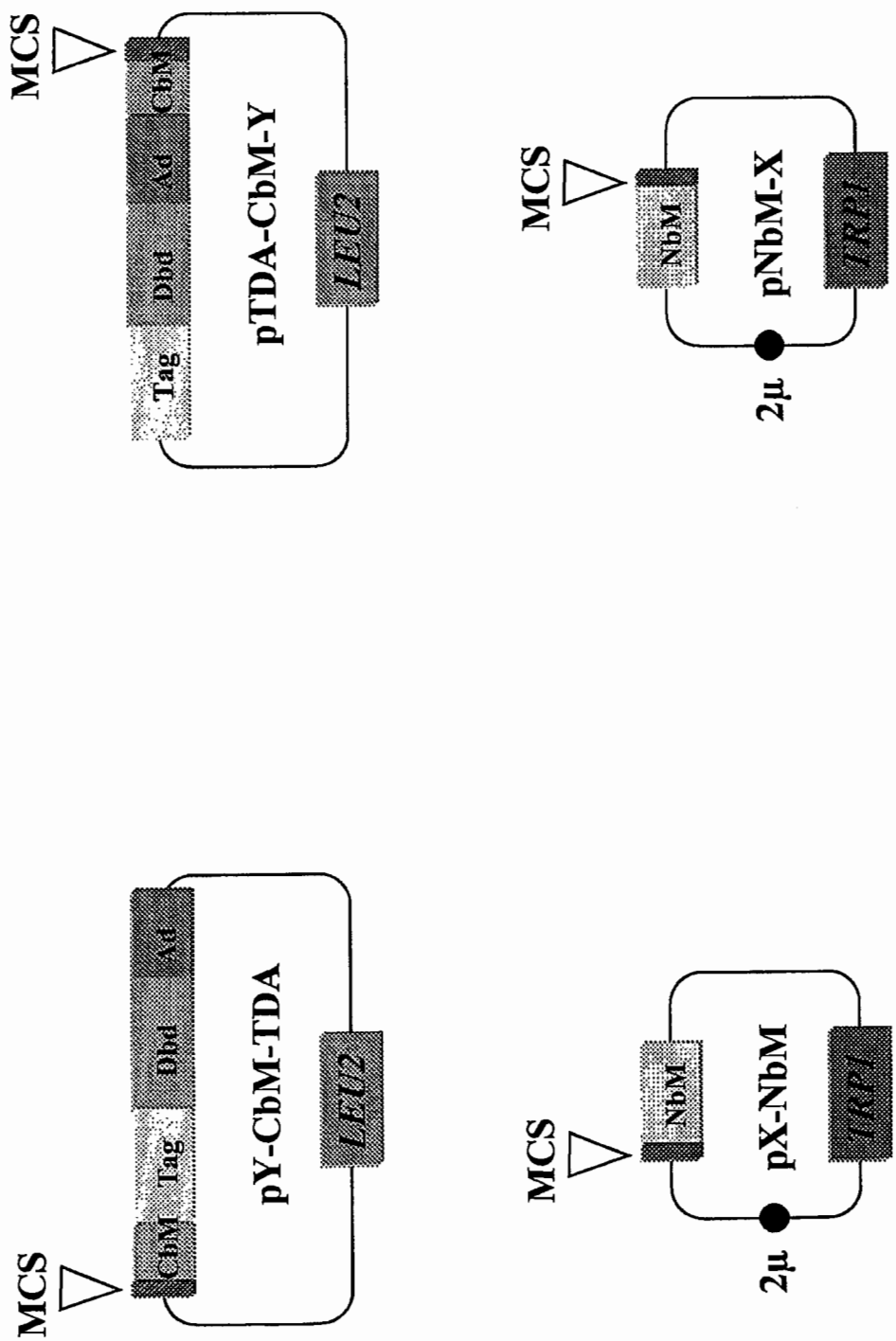

MCS
CbM
Ad
Dbd
Tag
pTDA-CbM-Y
LEU2
MCS
NbM
pNbM-X
TRP1
2µ
MCS
CbM
Tag
Dbd
Ad
pY-CbM-TDA
LEU2
MCS
NbM
pX-NbM
TRP1
2µ

Figure 2

Y-CbM-TDA
lumen or outside cell
cytoplasm
UBPs
nucleus
his3-
lacZ- (white)
X-NbM
lumen or outside cell
cytoplasm
UBPs
nucleus
his3-
lacZ- (white)

Figure 3A

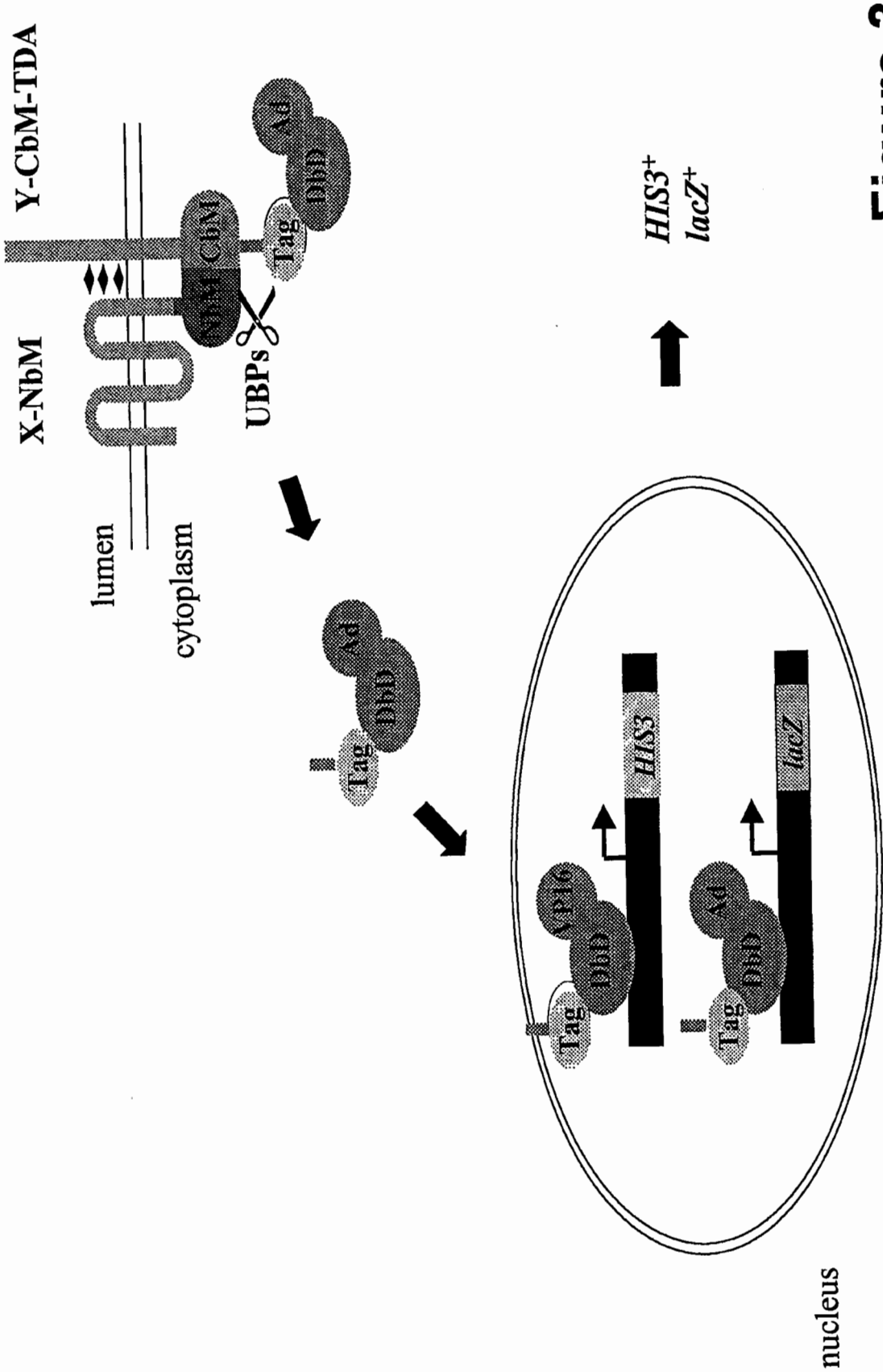
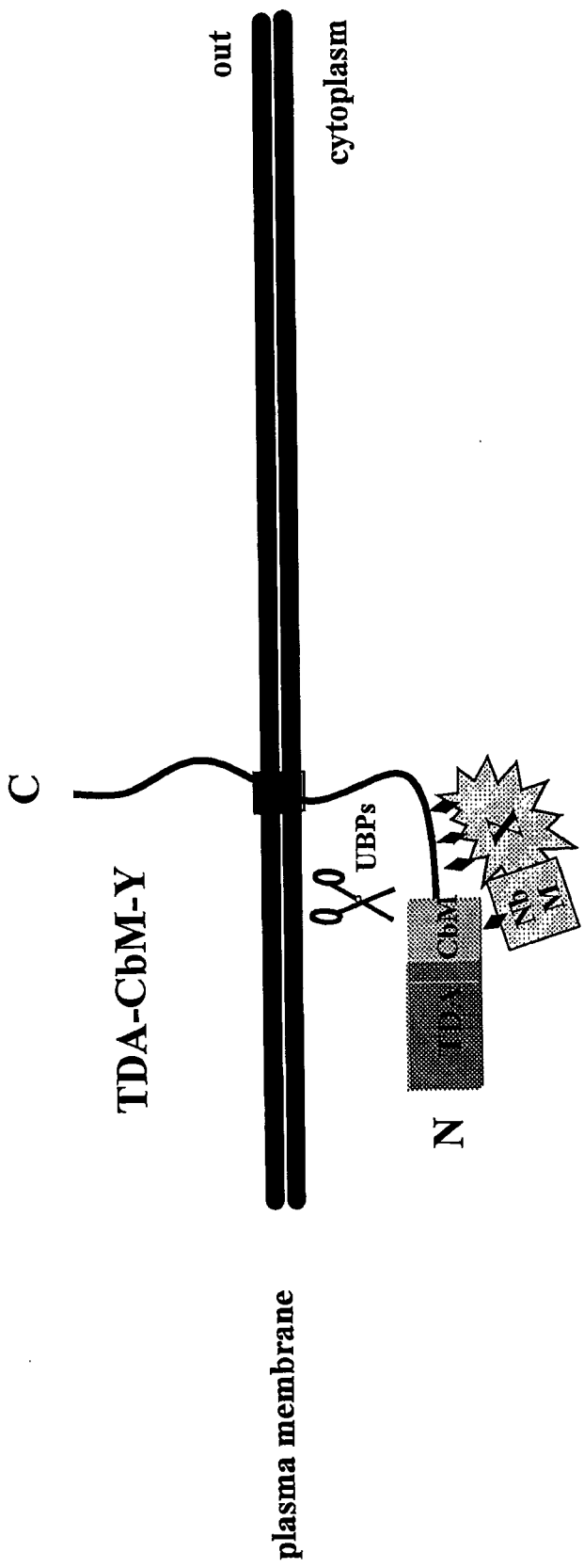

Y-CbM-TDA
X-NbM
lumen
cytoplasm
NbM
CbN
UBPs
Tag
DbD
Ad
HIS3+
lacZ+
VP16
HIS3
lacZ
nucleus

Figure 3B

Figure 3C



yeast genomic DNA
Sau3A digestion
or
random shearing (sonication)
fragment size selection in the agarose gel, polishing of DNA ends (if random sonication was used)
ligation into pX-NbM and pNbM-X vectors
NbM
TRP1
Random yeast genomic DNA libraries in pX-NbM and pNbM-X vectors

Figure 4A

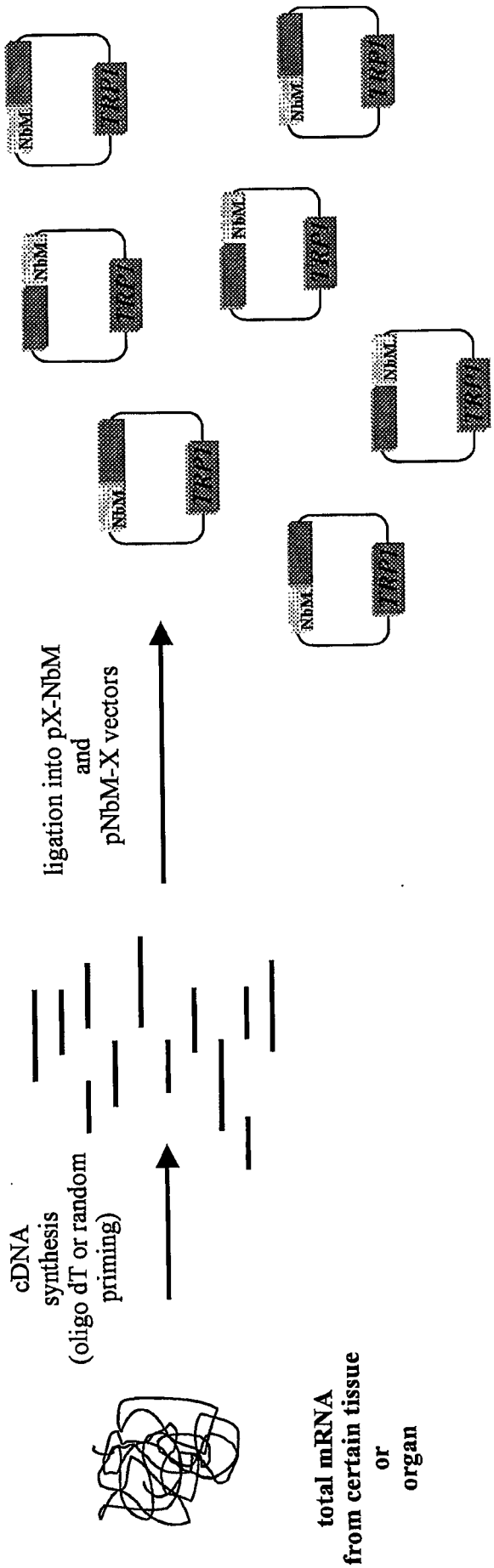

total mRNA
from certain tissue
or
organ
cDNA
synthesis
(oligo dT or random
priming)
ligation into pX-NbM
and
pNbM-X vectors
Oligo dT or random primed c DNA
libraries in
pX-NbM and pNbM-X
vectors

Figure 4B

C

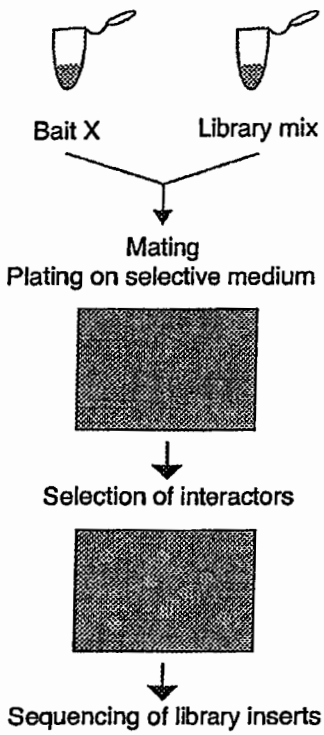

Bait X
Library mix
Mating
Plating on selective medium
Selection of interactors
Sequencing of library inserts

Figure 5

X and Y DO NOT interact

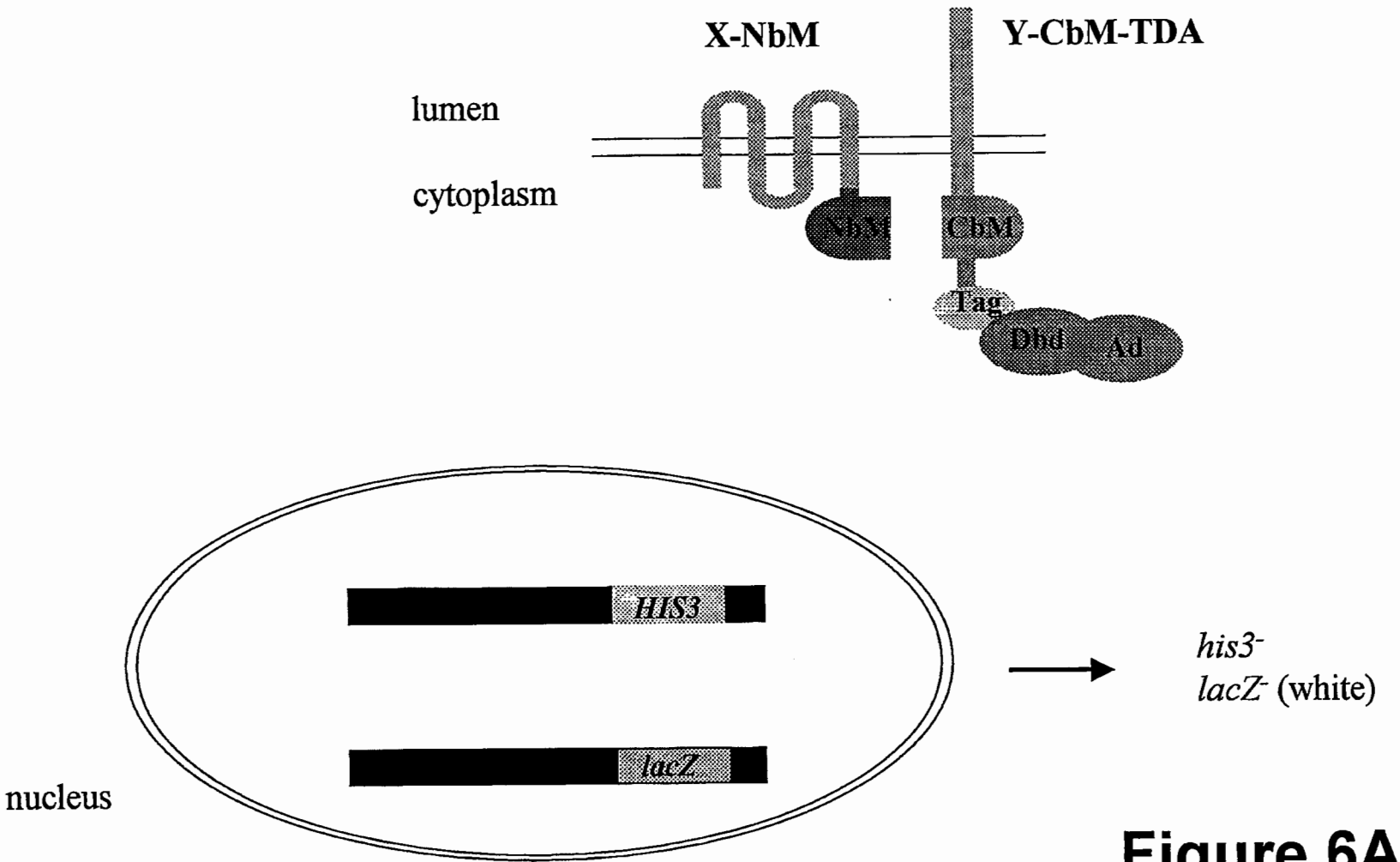


Figure 6A

X and Y DO interact

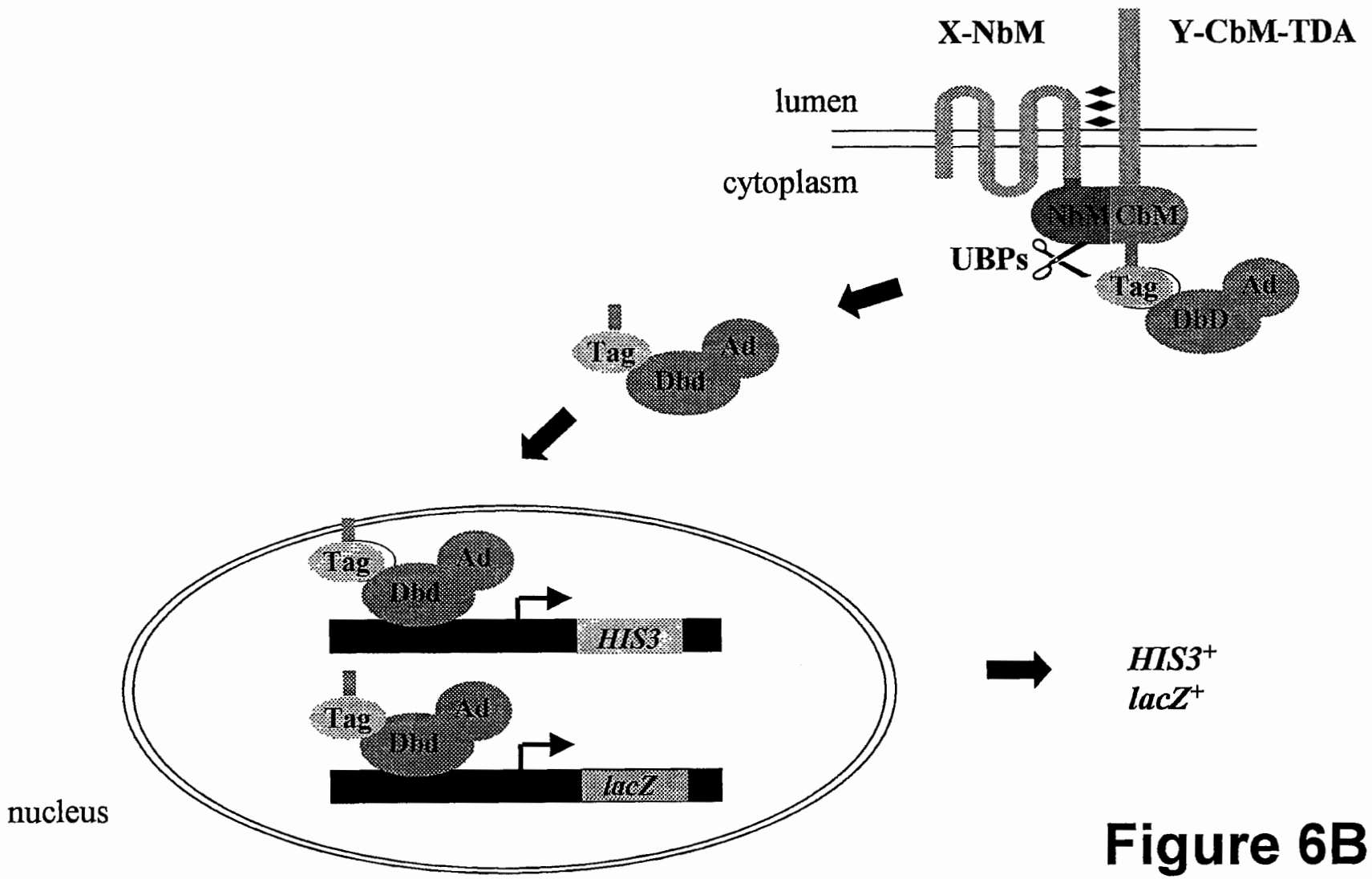


Figure 6B

can be:
- small molecule
- minimal interaction domain
- peptide encoded by plasmid
- peptide added to a medium
- antibody
+ Drug
ura-
5FOAr
- Drug
HIS+ (growth)
URA+ (growth)
5FOAs (no growth)
Y
X
CBM
Tag
HIS3
URA3
OFF
OFF

Figure 7

β-galactosidase activity of yeast colonies expressing the various X-NbM fusions under control of ADH promoter and/or 2μ and CEN/ARS origins of replication

Figure 8

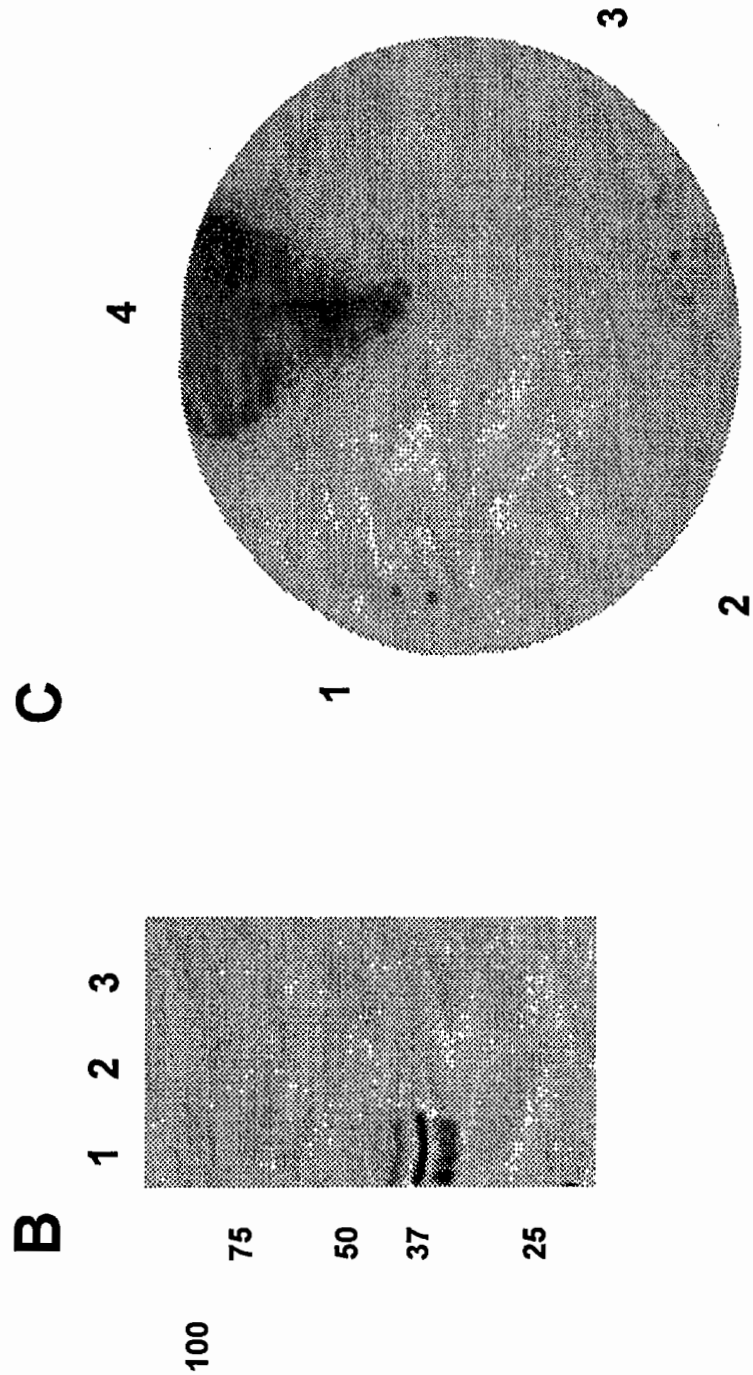


Figure 9

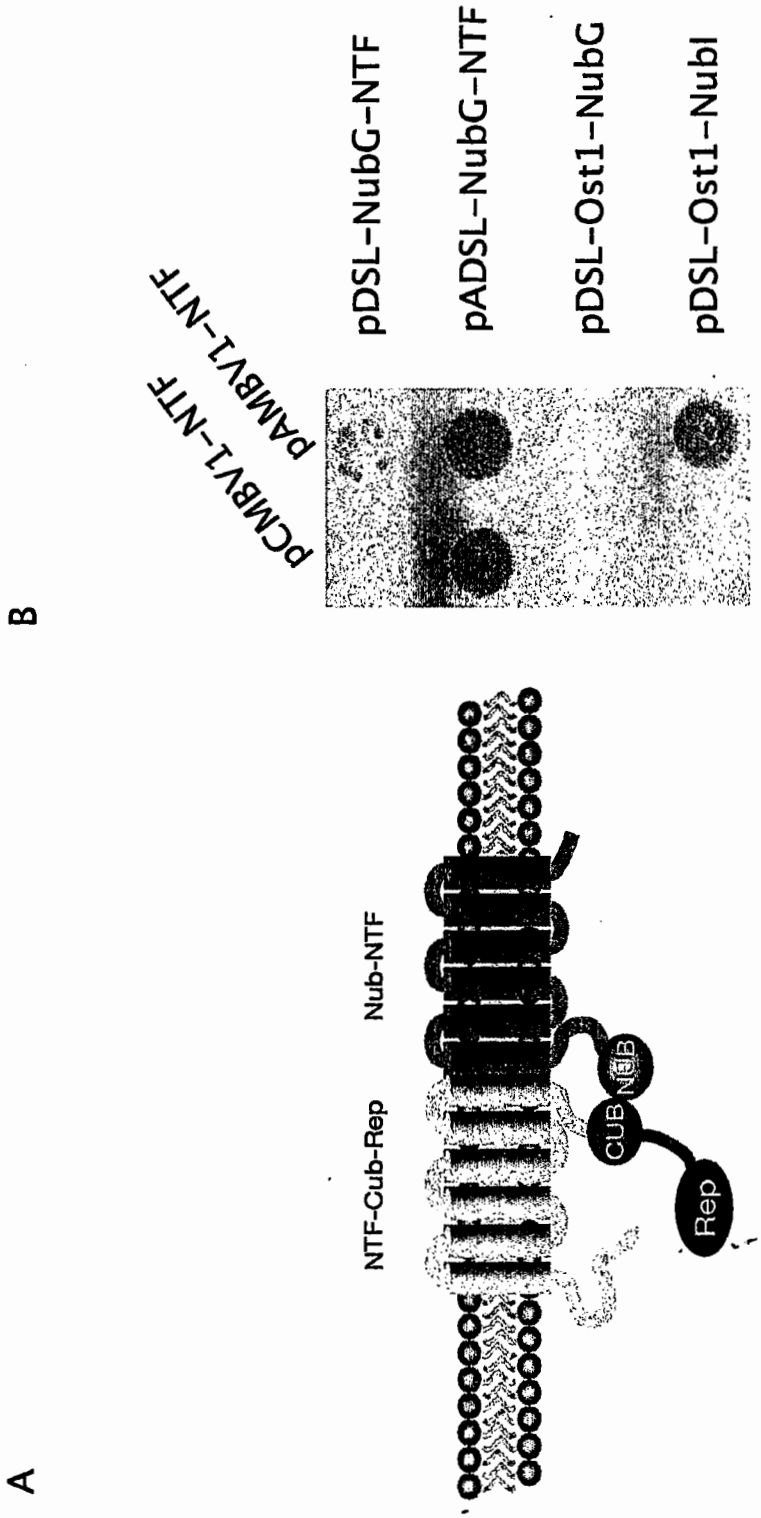

A
NTF-Cub-Rep
Nub-NTF
CUB
NubB
Rep
B
pCMBV1-NTF
pAMBV1-NTF
pDSL-NubG-NTF
pADSL-NubG-NTF
pDSL-Ost1-NubG
pDSL-Ost1-NubI

Figure 10

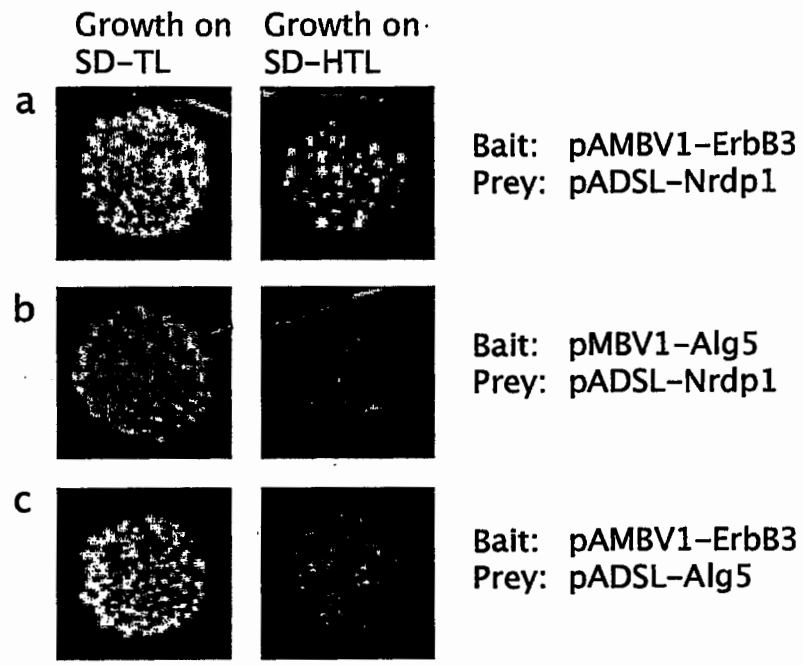
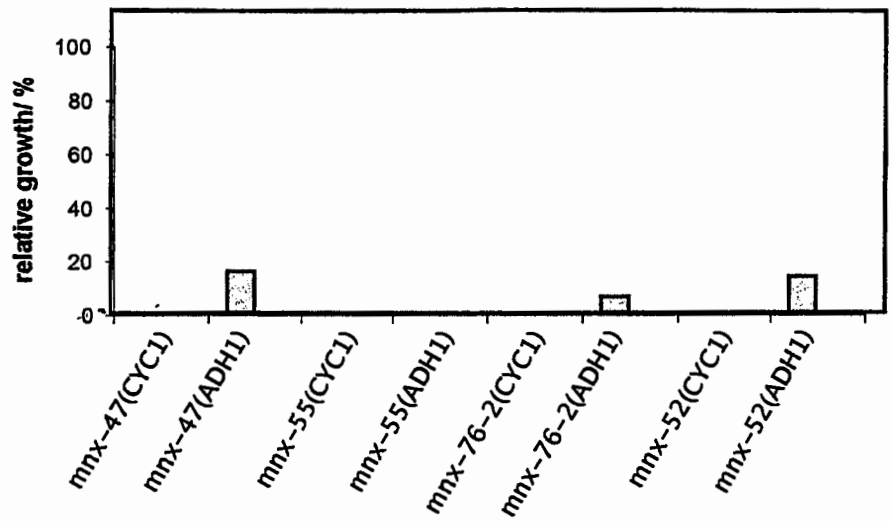

Growth on SD-TL
Growth on SD-HTL
a
Bait: pAMBV1-ErbB3
Prey: pADSL-Nrdp1
b
Bait: pMBV1-Alg5
Prey: pADSL-Nrdp1
c
Bait: pAMBV1-ErbB3
Prey: pADSL-Alg5

Figure 11

A beta2-adrenergic receptor expressed from CYC1 promoter (pCMBV1-b2AR)



B

beta2-adrenergic receptor expressed from ADH1 promoter (pAMBV1-b2AR)

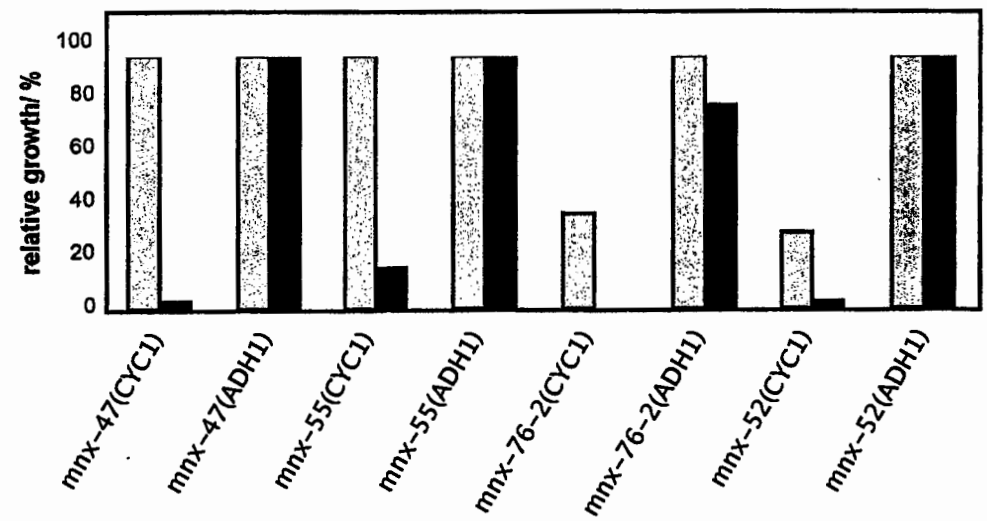
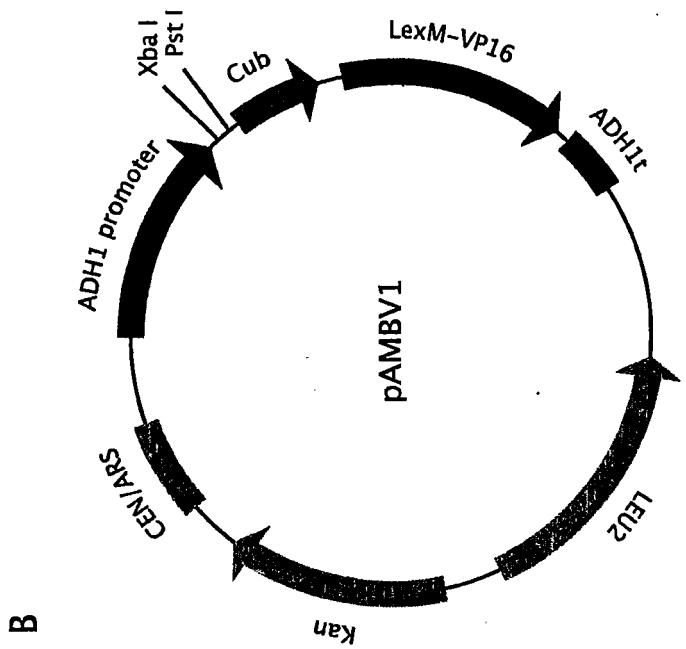


Figure 12


B
Xba I
Pst I
Cub
LexM-VP16
ADH1t
ADH1 promoter
pAMBV1
CEN/ARS
LEU2
Kan

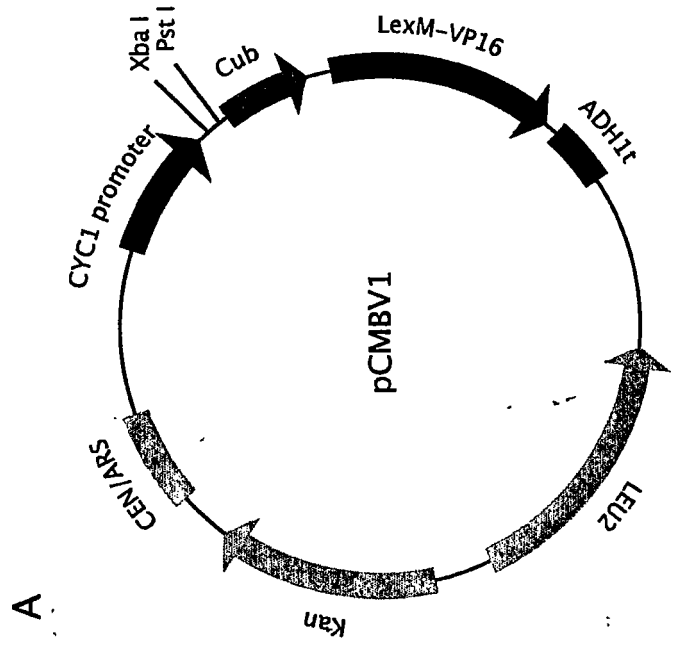

A
Xba I
Pst I
Cub
LexM-VP16
ADH1t
CYC1 promoter
pCMBV1
CEN/ARS
LEU2
Kan

Figure 13

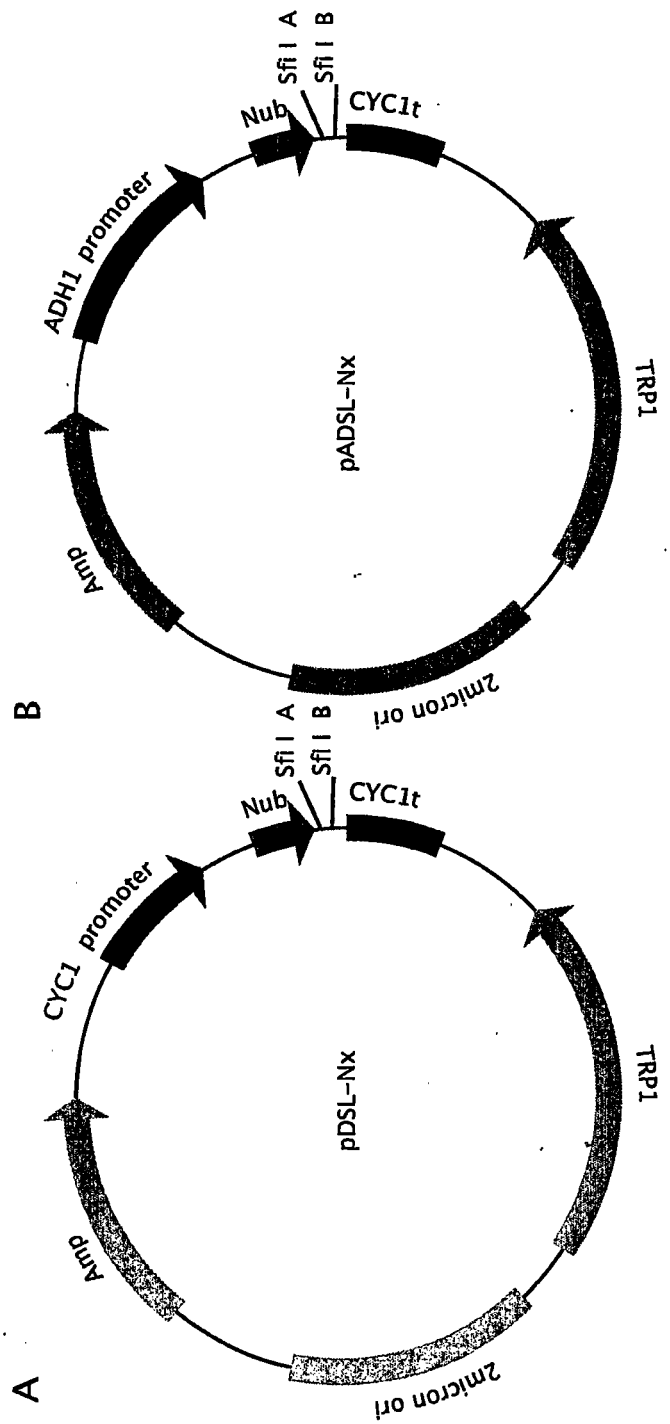

B
Sfi I A
Sfi I B
Nub
CYC1t
ADH1 promoter
pADSL-Nx
TRP1
Amp
2micron ori
A
Sfi I A
Sfi I B
Nub
CYC1t
CYC1 promoter
pDSL-Nx
TRP1
Amp
2micron ori

Figure 14

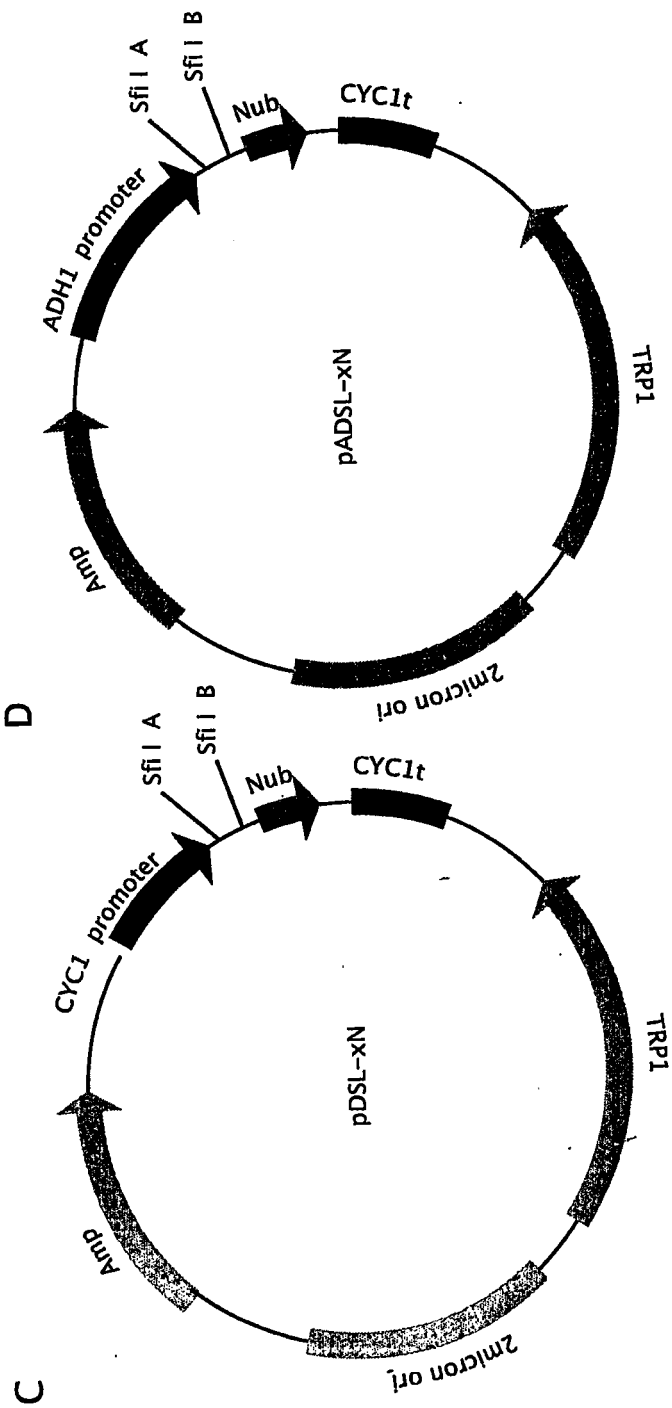

D
Sfi I A
Sfi I B
Nub
CYC1t
ADH1 promoter
TRP1
pADSL-xN
Amp
2micron ori
C
Sfi I A
Sfi I B
Nub
CYC1t
CYC1 promoter
TRP1
pDSL-xN
Amp
2micron ori

Figure 14