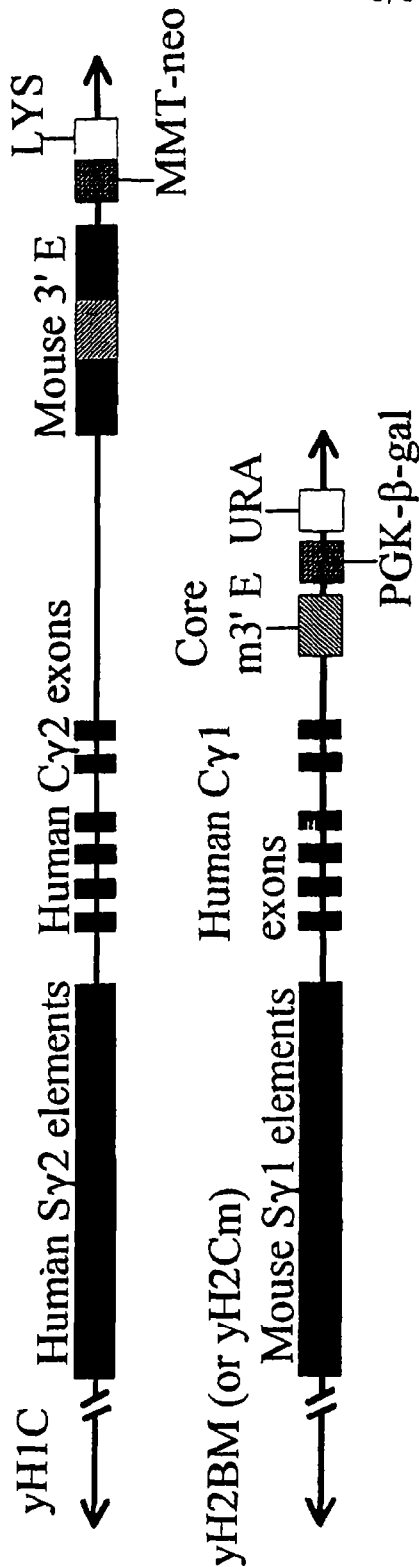


The Cy Region Structure of y2Bm versus yH1C



G00001

FIG. 1



163163

Retrofitting yH1C from Cy2 to Cy1

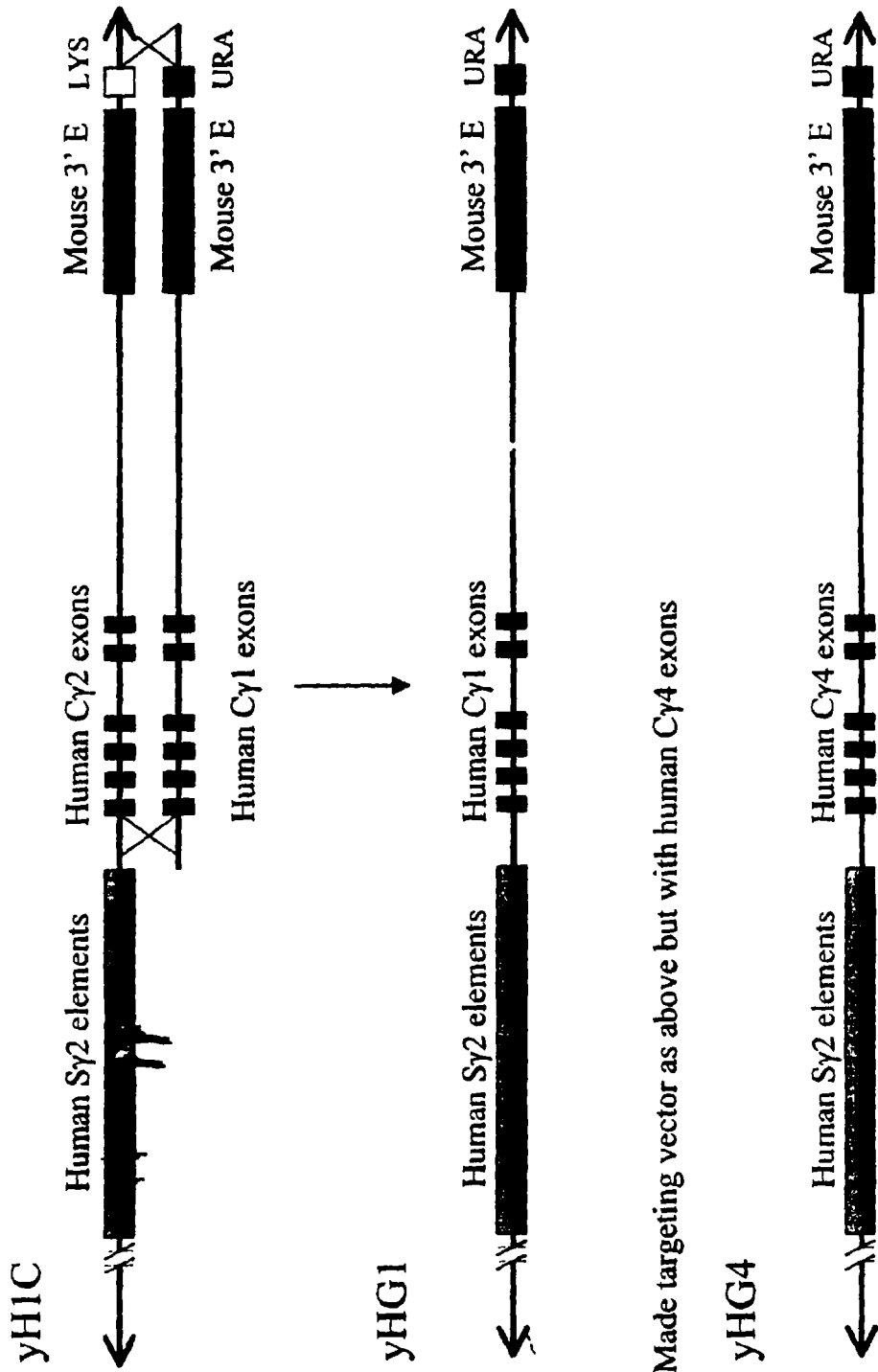


FIG. 2

Minimally Retrofitting yH1C from Cy2 to Cy1

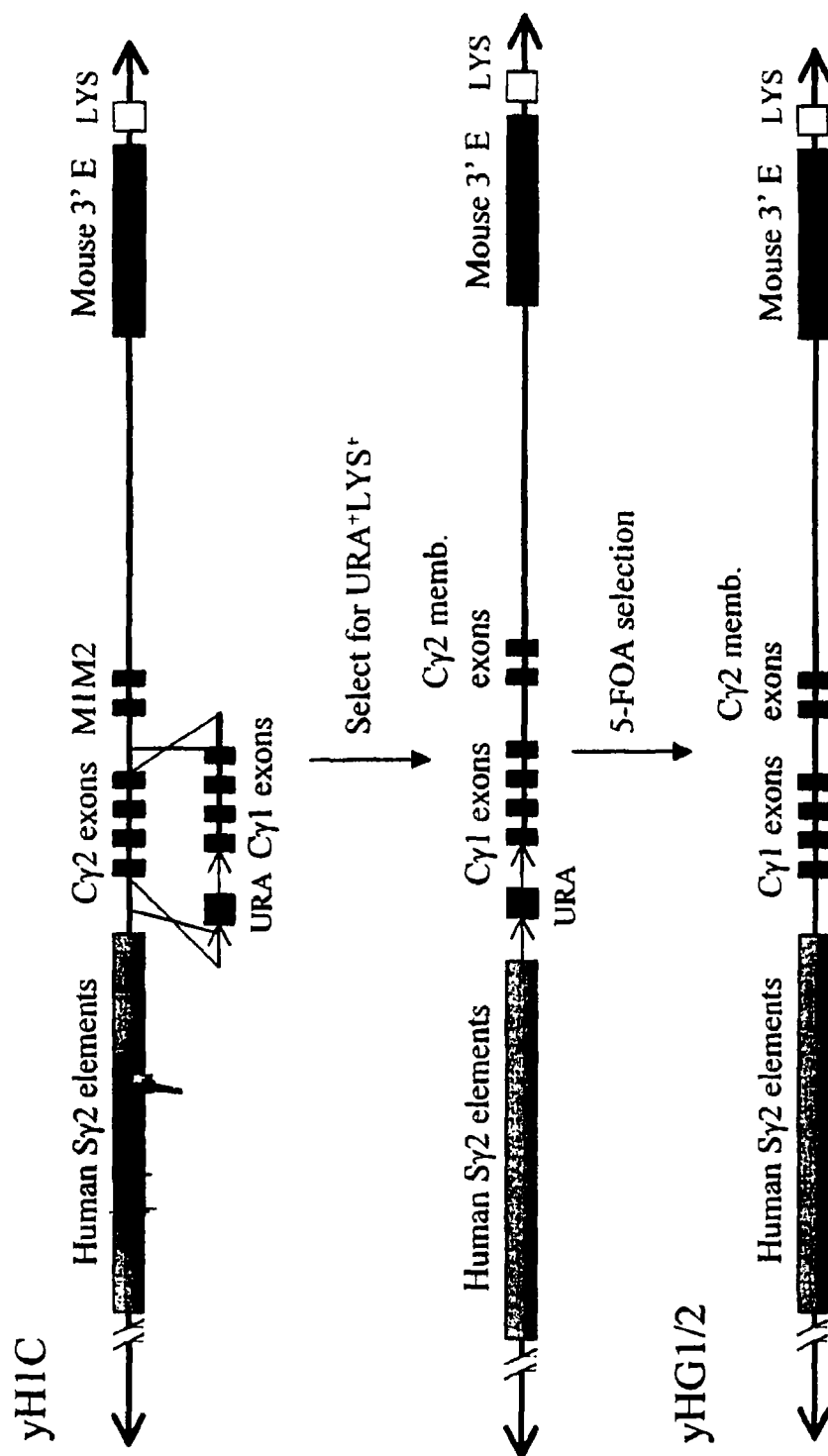


FIG. 3

Minimally Retrofitting yH1C from Cy2 to Cy4

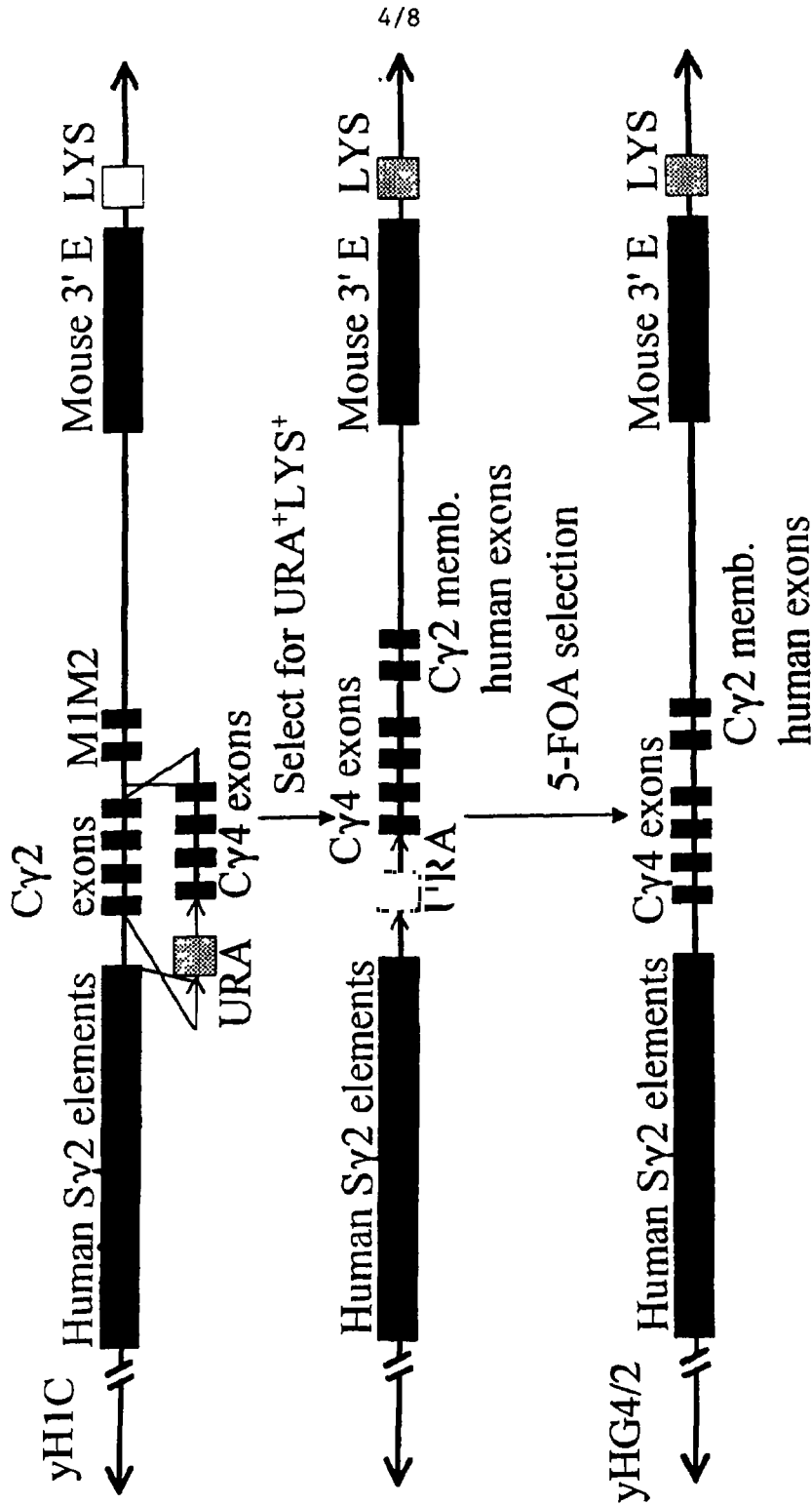


FIG. 4

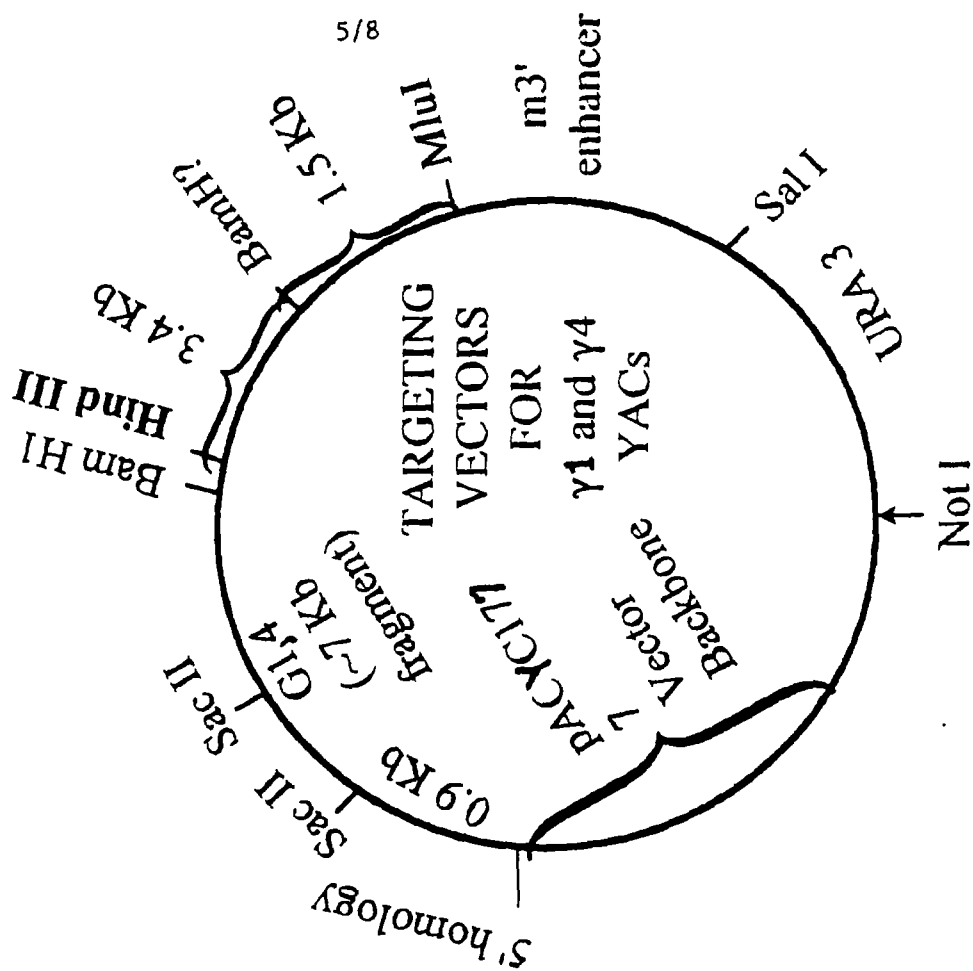


FIG. 5

Targeting vectors for
retrofitting yH1C to y H2Bm
and y H2CM YACS

Both vectors are based on
pACYC177 vector

(Size ~ 23 Kb)

Not I site used to
linearize vector prior to
transformation

Vector construction for TV G1 and TV G4 YACs

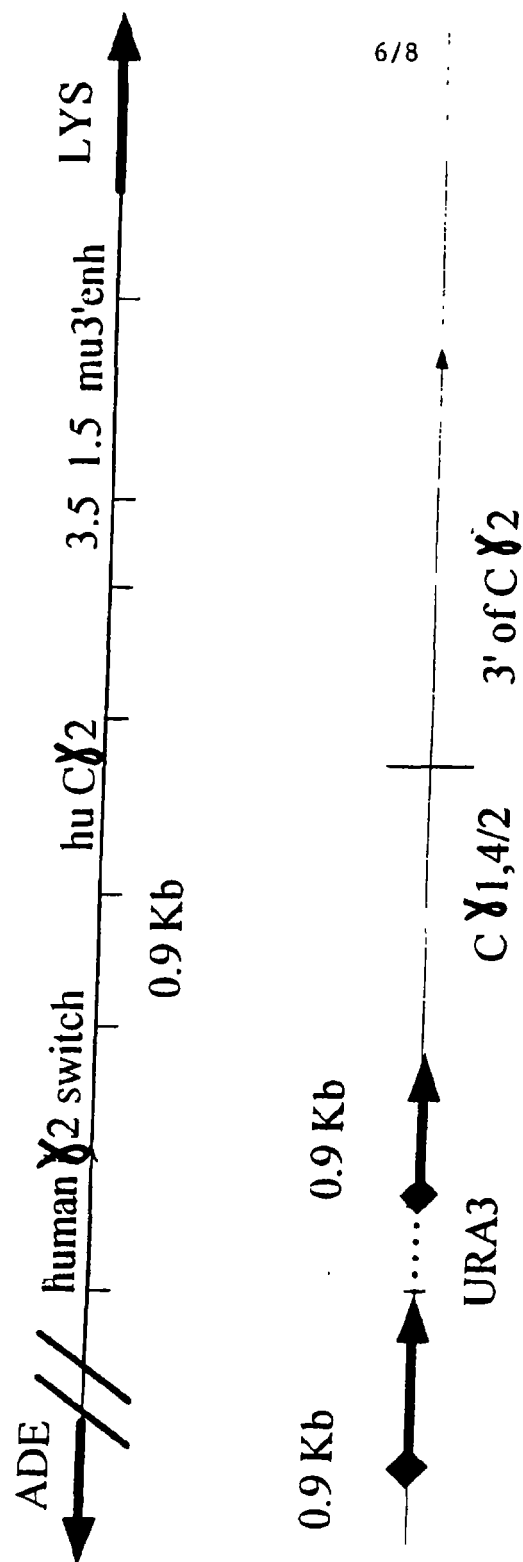
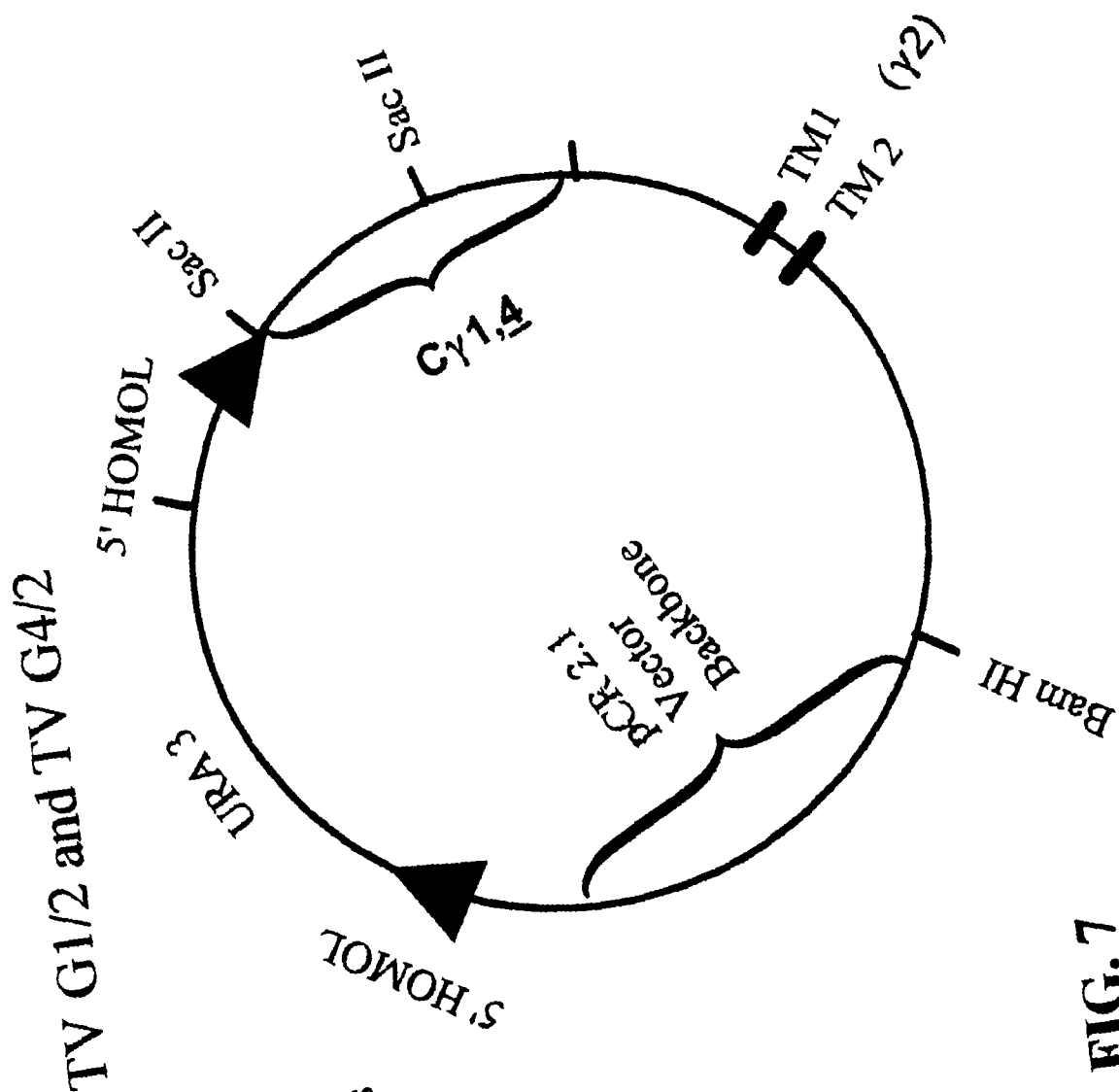


FIG. 6

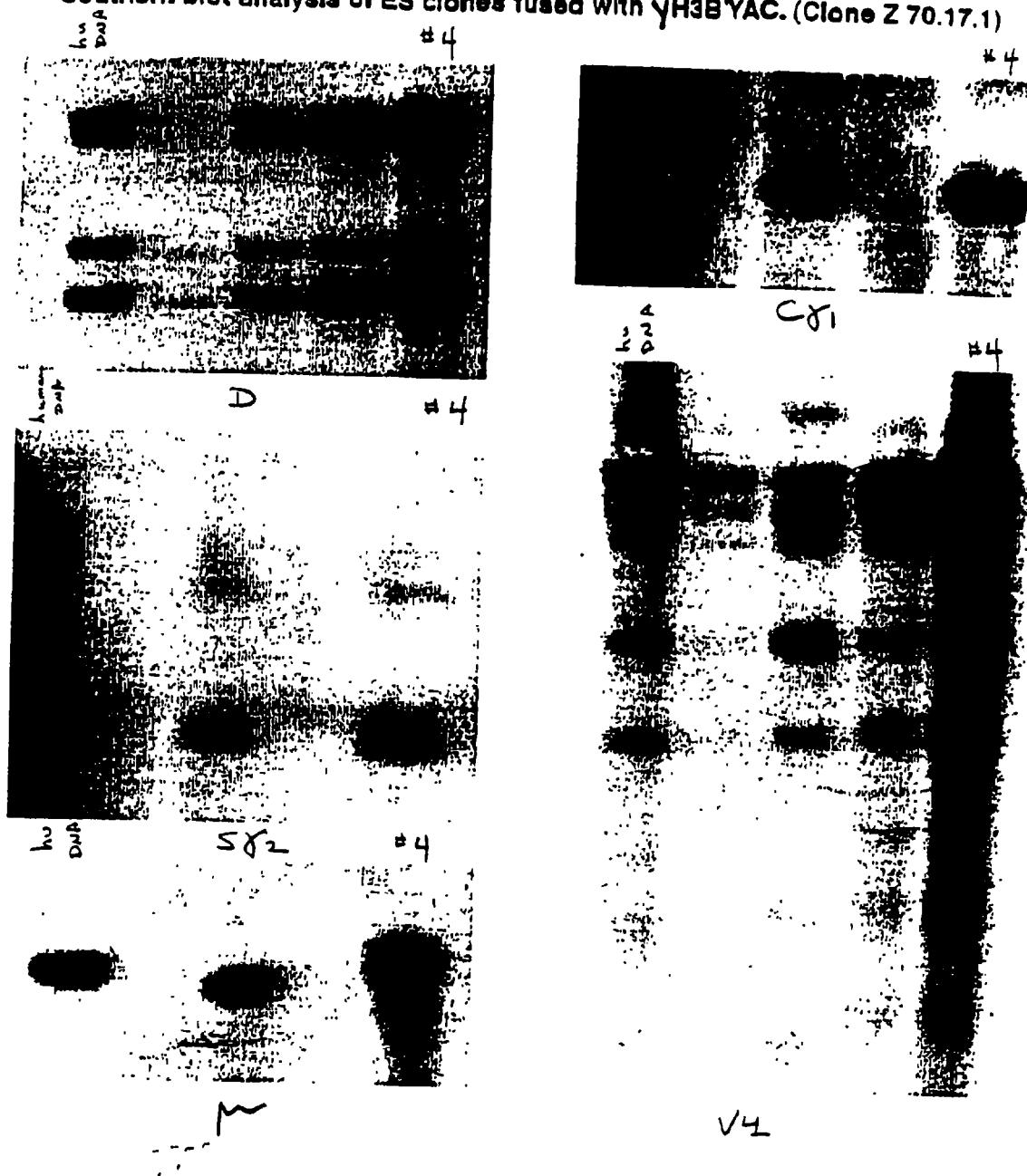


Targeting vectors for
YACs with coding regions
of Gamma 1 and
4 and transmembrane
domains of Gamma 2

Based on pCR 2.1
cloning vector
(INVITROGEN)

FIG. 7

Southern blot analysis of ES clones fused with γ H3B YAC. (Clone Z 70.17.1)



SEQUENCE LISTING

<110> ABGENIX, INC.

<120> TRANSGENIC ANIMALS FOR PRODUCING SPECIFIC ISOTYPES OF
HUMAN ANTIBODIES VIA NON-COGNATE SWITCH REGIONS

<130> CELL 4.21 CIP PCT

<140>

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<150> 09/329,582

<151> 1999-06-10

<160> 31

<170> PatentIn Ver. 2.1

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<211> 32

<212> DNA

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Lox P site

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32

<210> 2

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Linker

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tcgagtgagc tc 72

<210> 3

<211> 72

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Complimentary
strand

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aatatttgta ga 72

<210> 4
<211> 54
<212> DNA
<213> Artificial Sequence

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<210> 5
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Complementary strand

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<210> 6
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
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<210> 7
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<212> DNA
<213> Artificial Sequence

<220>
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<210> 8
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

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19

<210> 9
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence: Primer

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20

<210> 10
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<220>
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<212> DNA
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<220>
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27

<210> 12
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 12
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22

<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 13

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21

<210> 14

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

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21

<210> 15

<211> 21

<212> DNA

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<223> Description of Artificial Sequence: Primer

<400> 15

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21

<210> 16

<211> 34

<212> DNA

<213> Artificial Sequence

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<211> 34

<212> DNA

<213> Artificial Sequence

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<210> 18

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

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<210> 19

<211> 67

<212> DNA

<213> Artificial Sequence

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gcccgagg 67

<210> 20

<211> 18

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

<400> 20

gtctggcccc tctgctgc

18

<210> 21

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 21

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18

<210> 22

<211> 18

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<213> Artificial Sequence

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18

<210> 23
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
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<210> 24
<211> 16
<212> DNA
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<220>
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<400> 24
ggccatggcc ggccat 16

<210> 25
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<223> Description of Artificial Sequence: Linker

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ggccatggcc ggccat 16

<210> 26
<211> 45
<212> DNA
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<220>
<223> Description of Artificial Sequence: Linker

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<210> 27
<211> 45
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Linker

<400> 27
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<210> 28
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 28
cctctccctg tctctgggta aatgagtgcc

30

<210> 29
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 29
tatccatcac actggcgacc gctcgagcat

30

<210> 30
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 30
gcagagcctg ctgaattctg gctg

24

<210> 31
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 31
gtaatacaca gccgtgtcct cg

22