FIGURE 1

FIGURE 1A

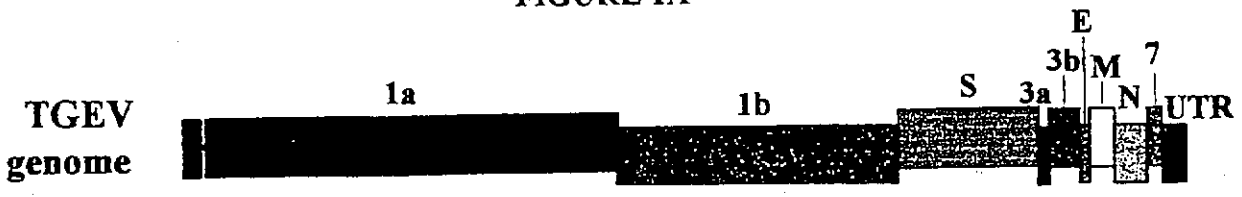


FIGURE 1B

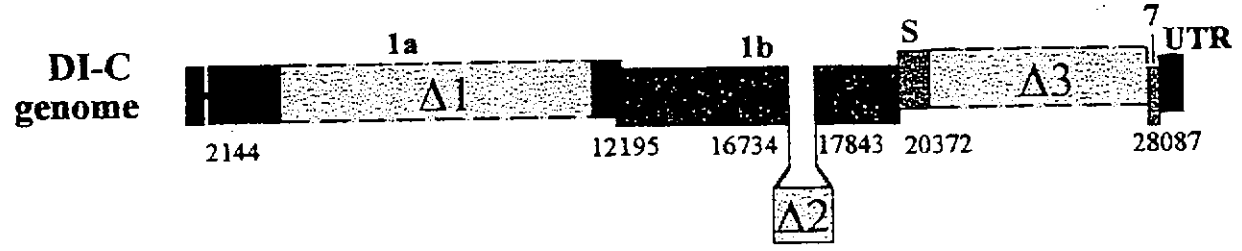


FIGURE 1C

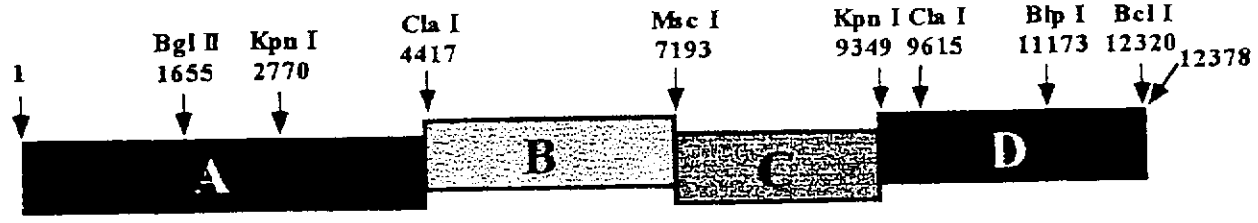


FIGURE 2

pBeloBAC

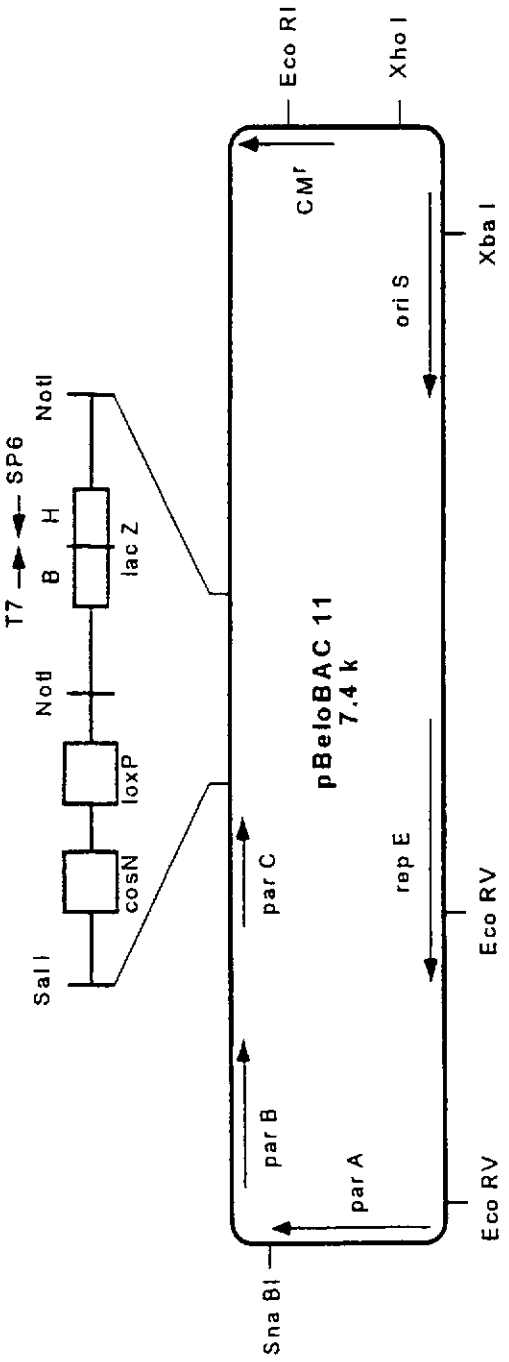


FIGURE 3

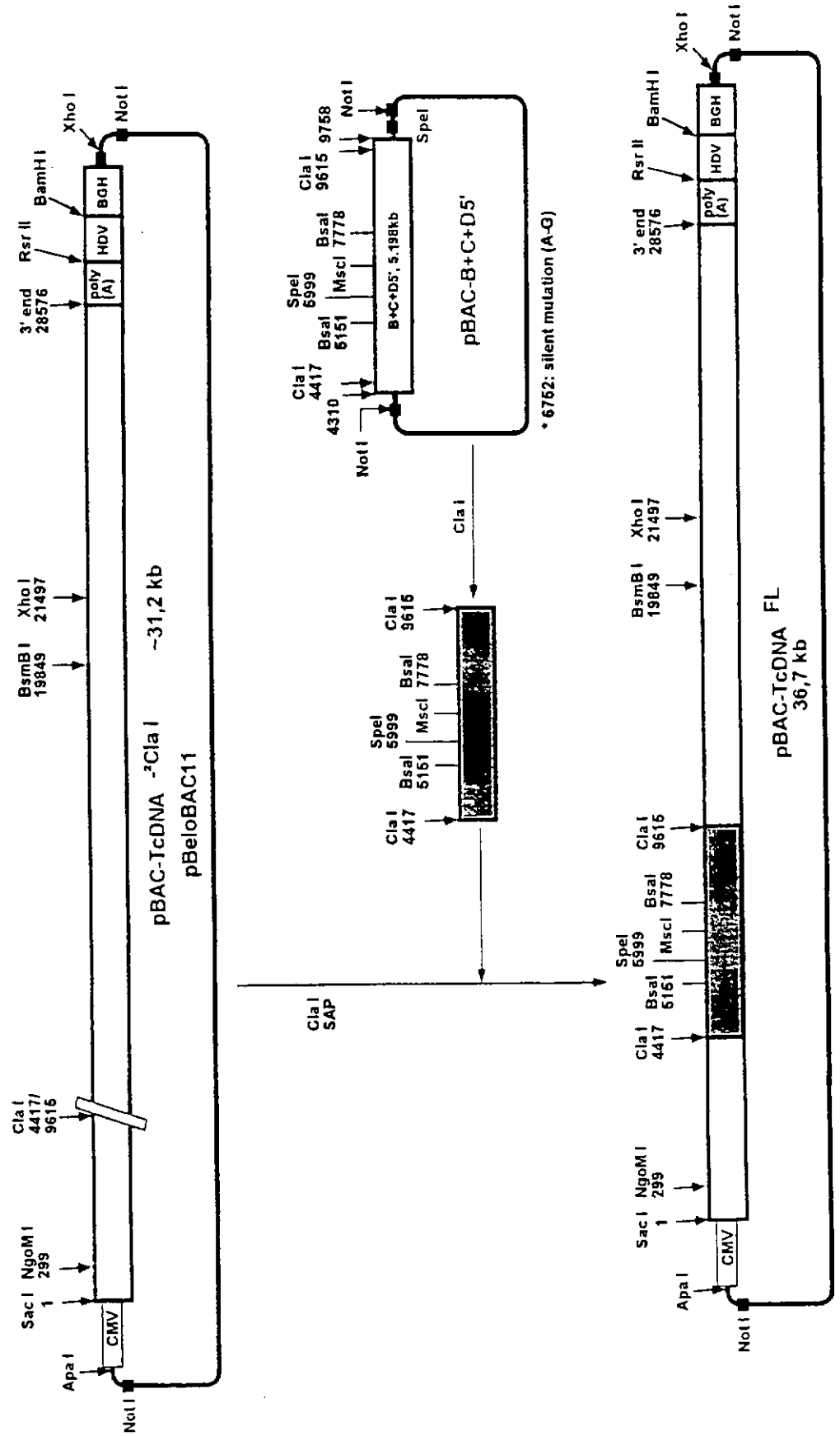

pBAC-TcDNA -²Cla I pBeloBAC11 ~31,2 kb
pBAC-B+C+D5'
* 6762: silent mutation (A-G)
Cla I SAP
pBAC-TcDNA FL 36,7 kb
Xho I
BamH I
Rsr II
3' end 28576
poly (A)
HDV
BGH
Not I
Spe I
Cla I 9615 9758
Cla I 4417 4310
Bsa I 6151
Spe I 6999
Msc I 7778
Bsa I 7778
B+C+D5', 5.198kb
BsmB I 19849
Xho I 21497
Cla I 4417/ 9616
Sac I
Ngo M I 1 299
CMV
Apa I

FIGURE 4

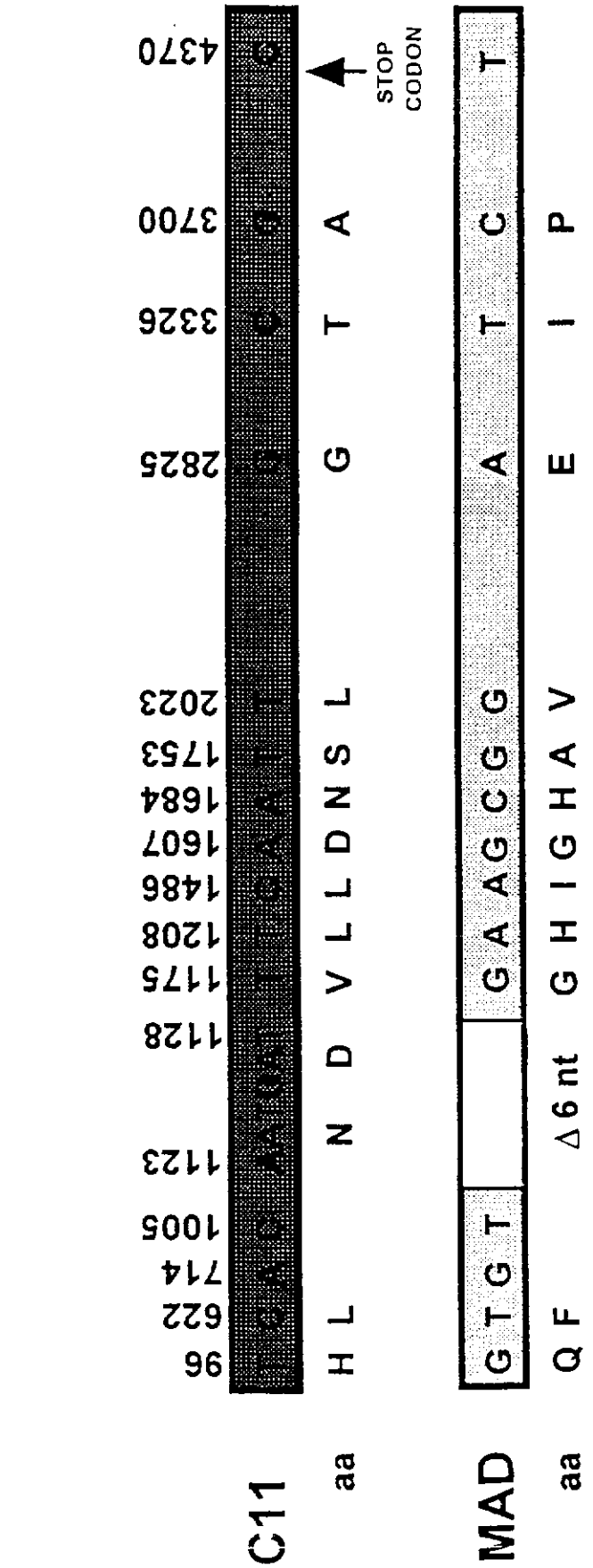

C11
aa
H L N D V L L D N S L G T A
MAD
aa
Q F Δ6nt G H I G H A V E I P
STOP CODON
96
622
714
1005
1123
1128
1175
1208
1486
1607
1684
1753
2023
2825
3326
3700
4370

FIGURE 5

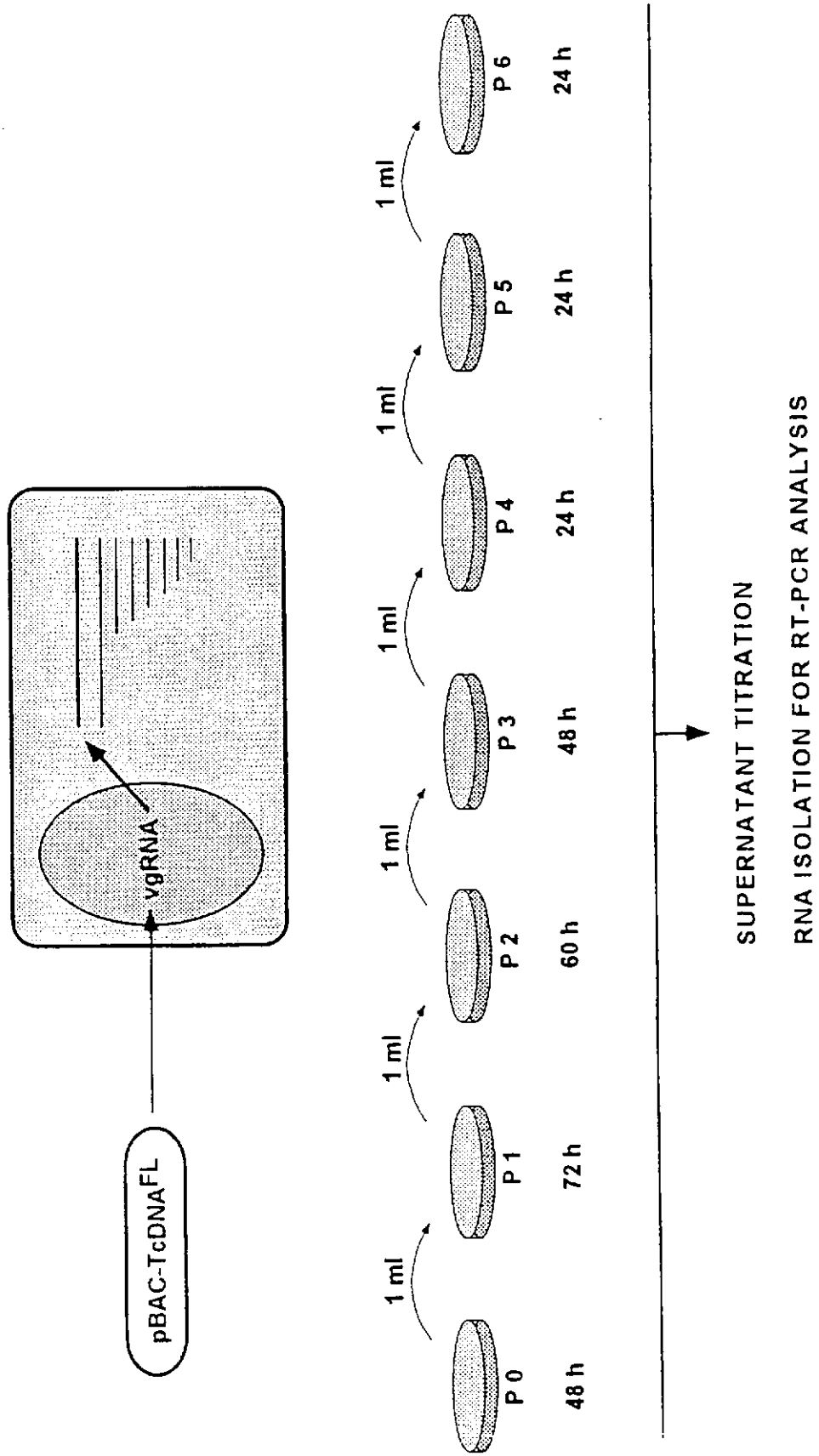

pBAC-TcDNAFL
vgRNA
P 0
48 h
1 ml
P 1
72 h
1 ml
P 2
60 h
1 ml
P 3
48 h
1 ml
P 4
24 h
1 ml
P 5
24 h
1 ml
P 6
24 h
SUPERNATANT TITRATION
RNA ISOLATION FOR RT-PCR ANALYSIS

FIGURE 6

FIGURE 6A

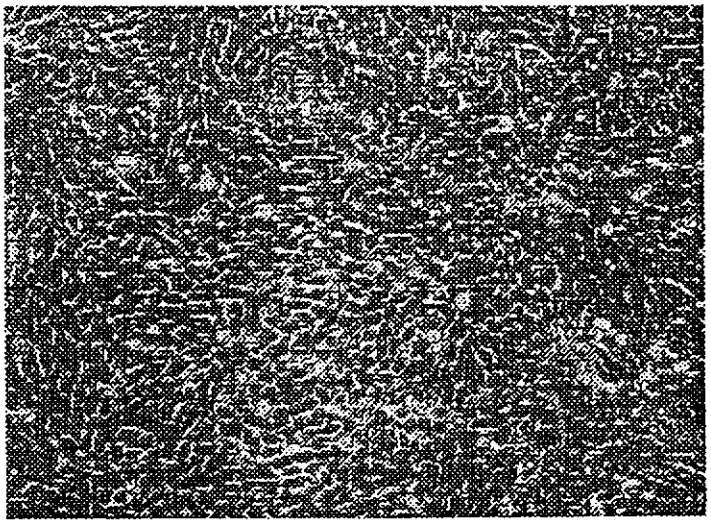


FIGURE 6B

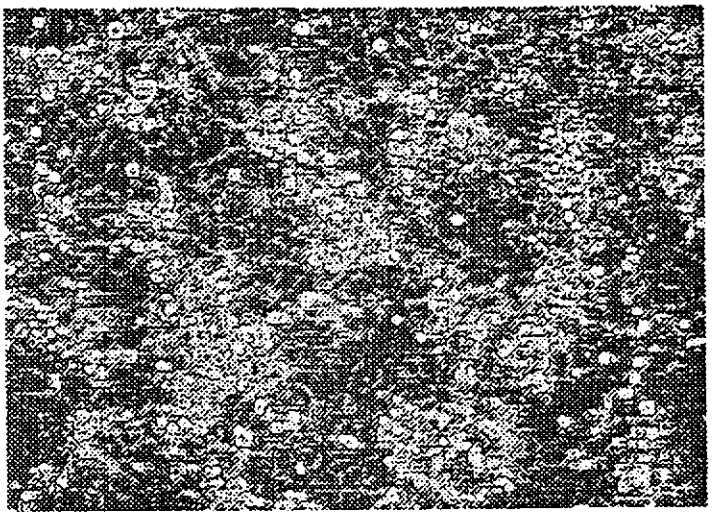


FIGURE 6C

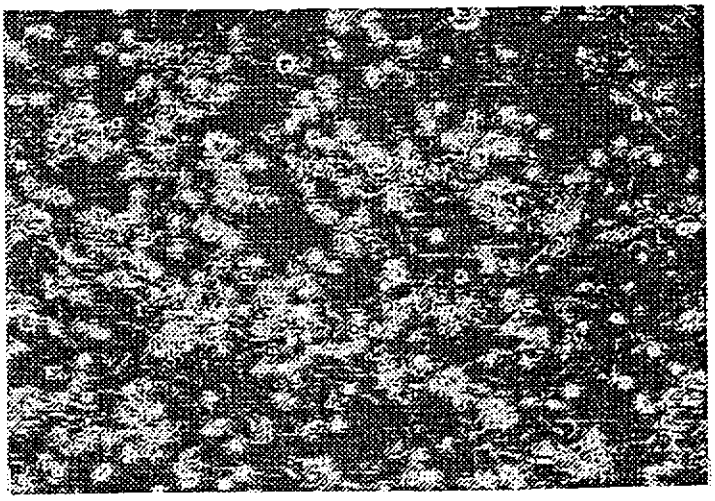


FIGURE 7

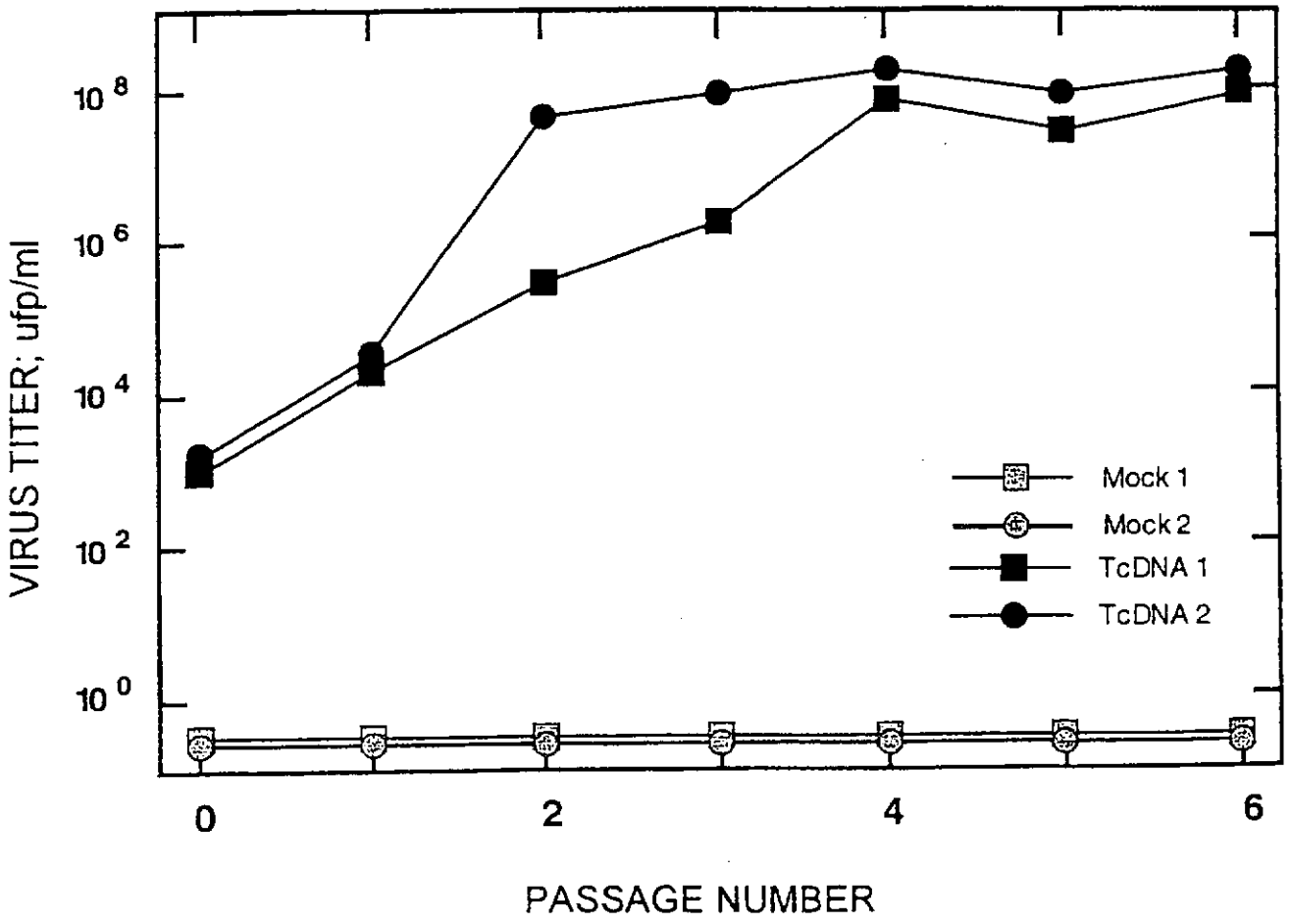

VIRUS TITER; ufp/ml
10 8
10 6
10 4
10 2
10 0
0
2
4
6
PASSAGE NUMBER
Mock 1
Mock 2
TcDNA 1
TcDNA 2

FIGURE 8

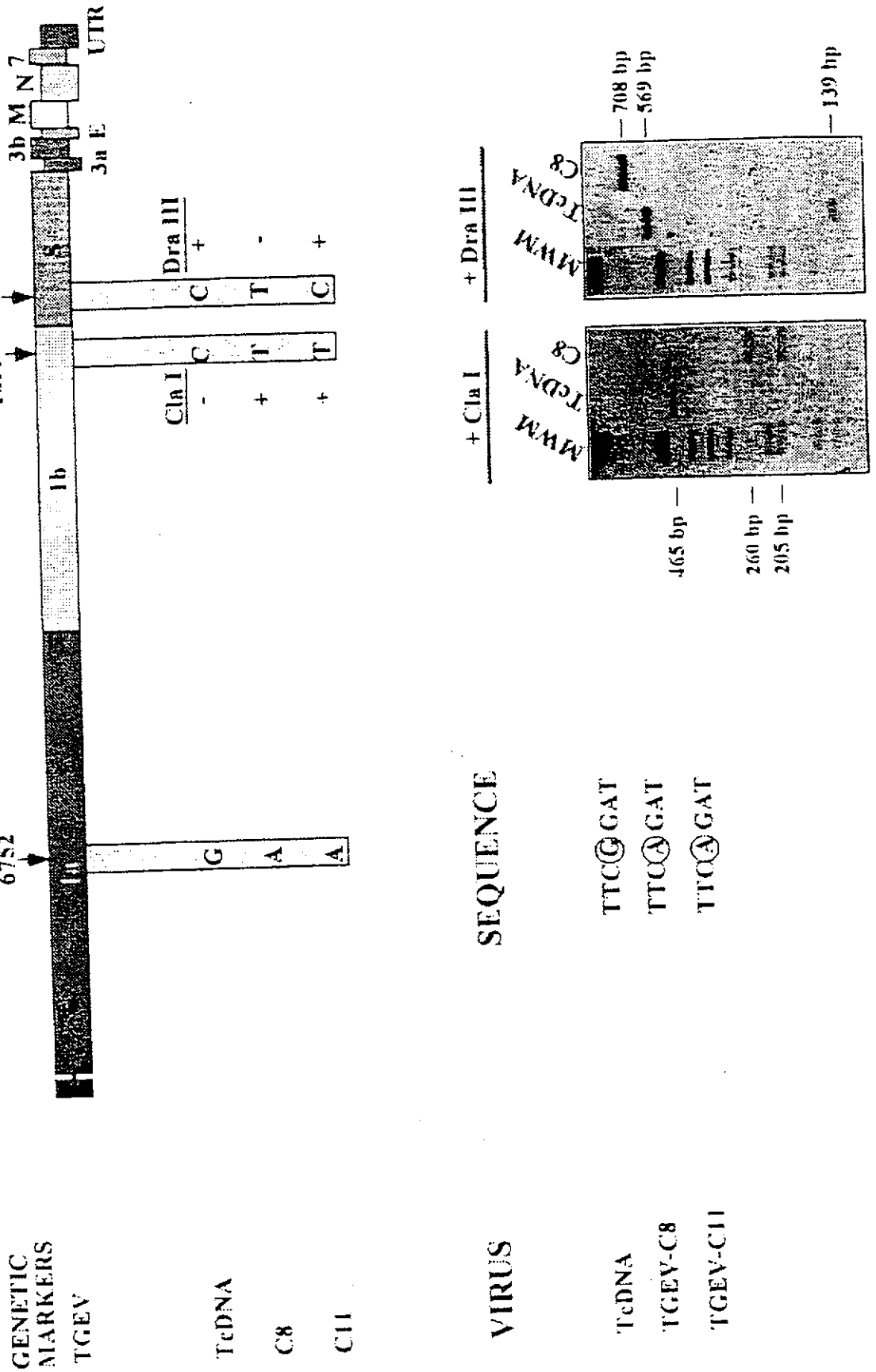

GENETIC MARKERS
TGEV
TcDNA
C8
C11
6752
18997
20990
1b
S
3a E
3b M N 7
UTR
Cla I
Dra III
G A A
C T C
- + +
+ - +
+ Cla I
+ Dra III
MWM
TcDNA
C8
465 bp
260 bp
205 bp
708 bp
569 bp
139 bp
VIRUS
SEQUENCE
TcDNA
TTCGGAT
TGEV-C8
TTCAGAT
TGEV-C11
TTCAGAT

FIGURE 9

FIGURE 9A

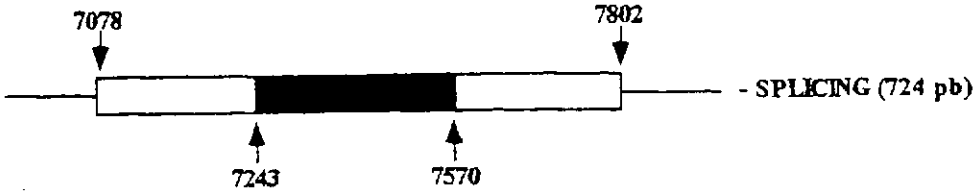


FIGURE 9B

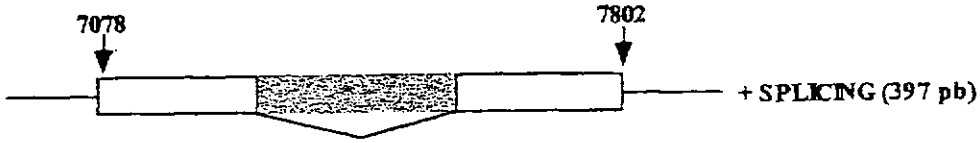


FIGURE 9C

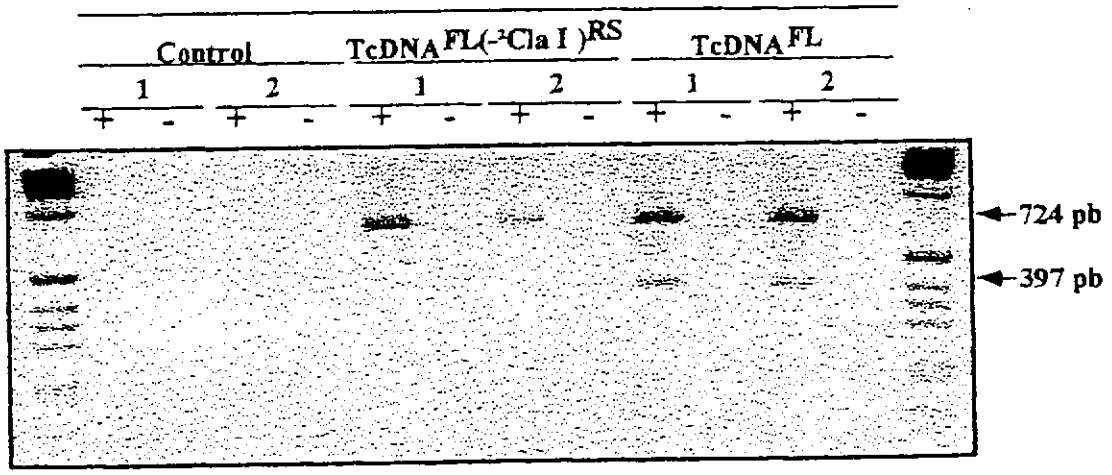


FIGURE 9D

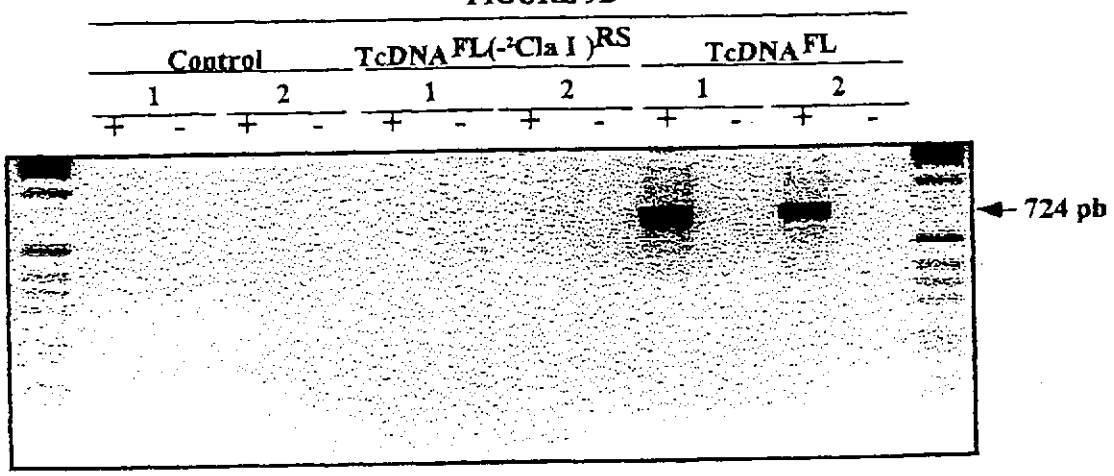


FIGURE 10

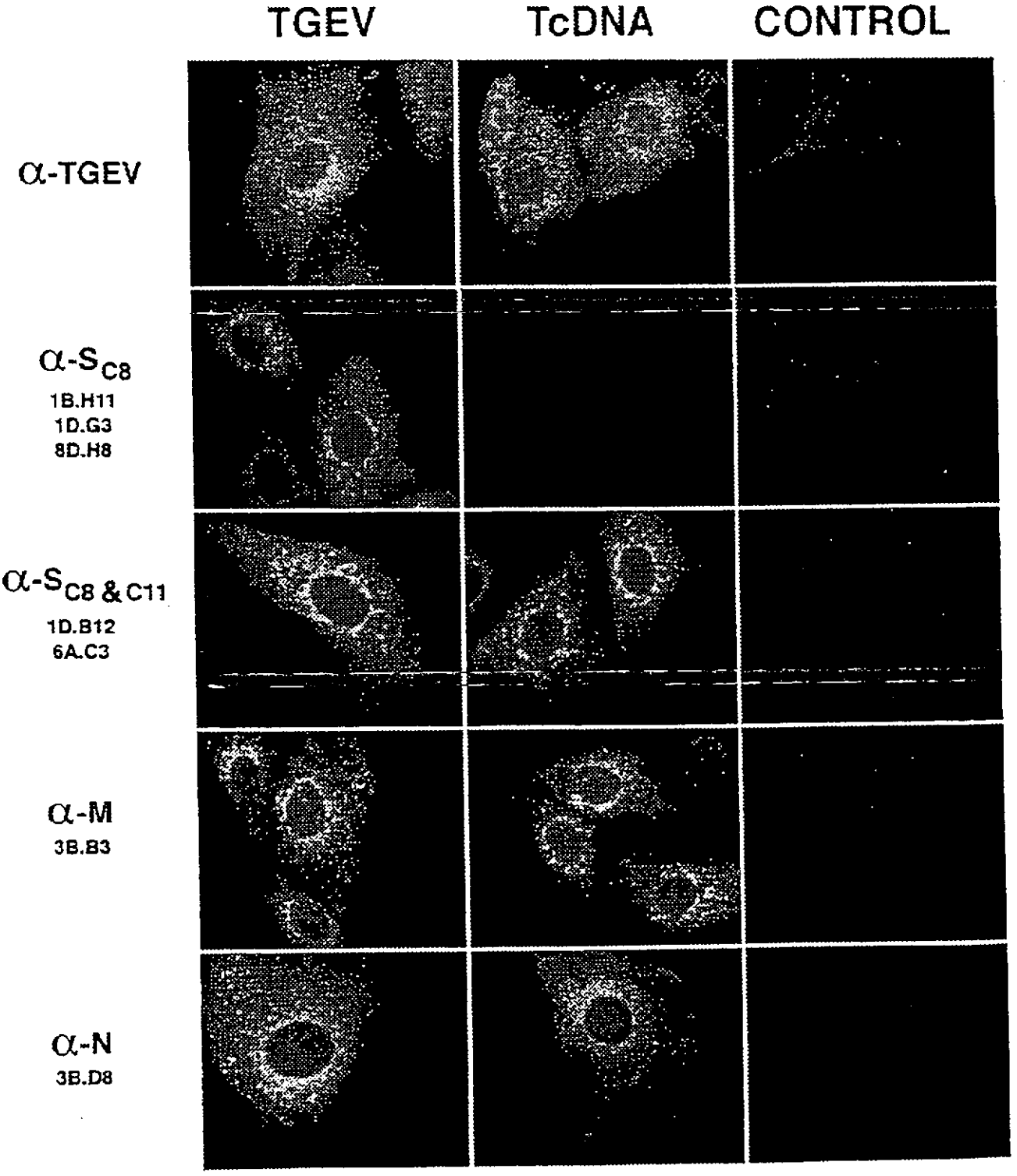

TGEV
TcDNA
CONTROL
α-TGEV
α-S C8
1B.H11
1D.G3
8D.H8
α-S C8 & C11
1D.B12
6A.C3
α-M
3B.B3
α-N
3B.D8

FIGURE 11

FIGURE 11A

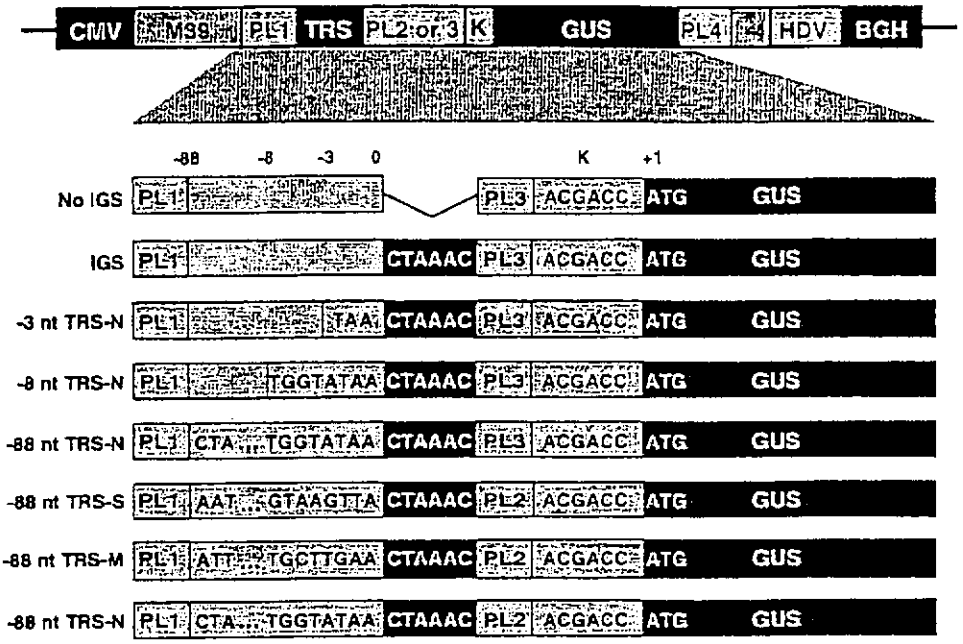


FIGURE 11B

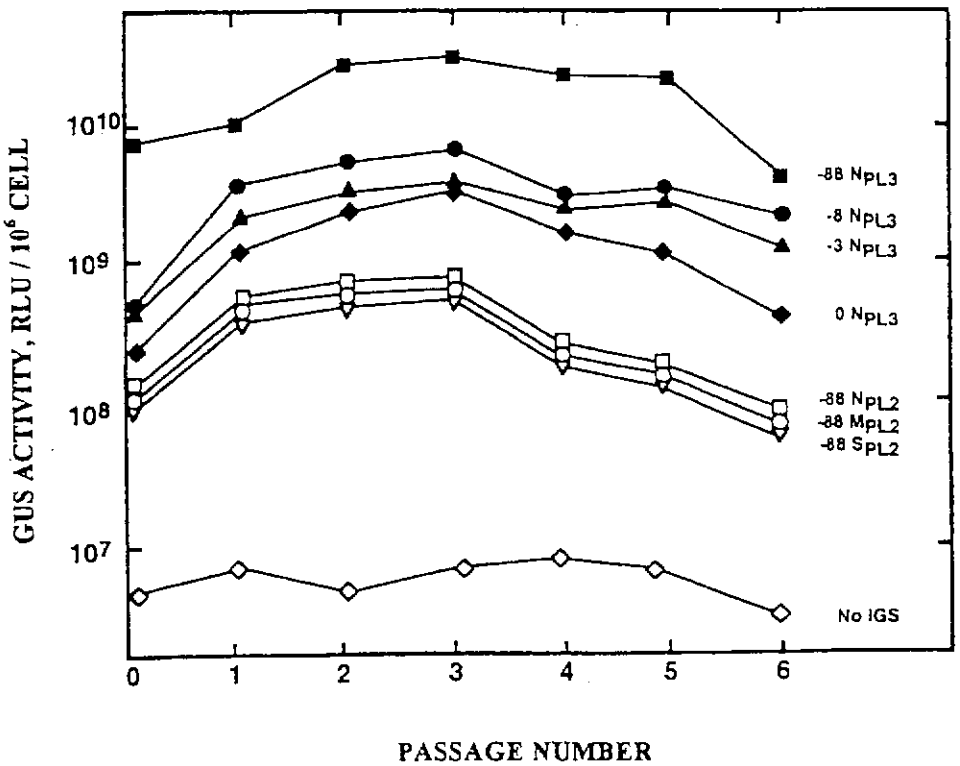


FIGURE 12

FIGURE 12A

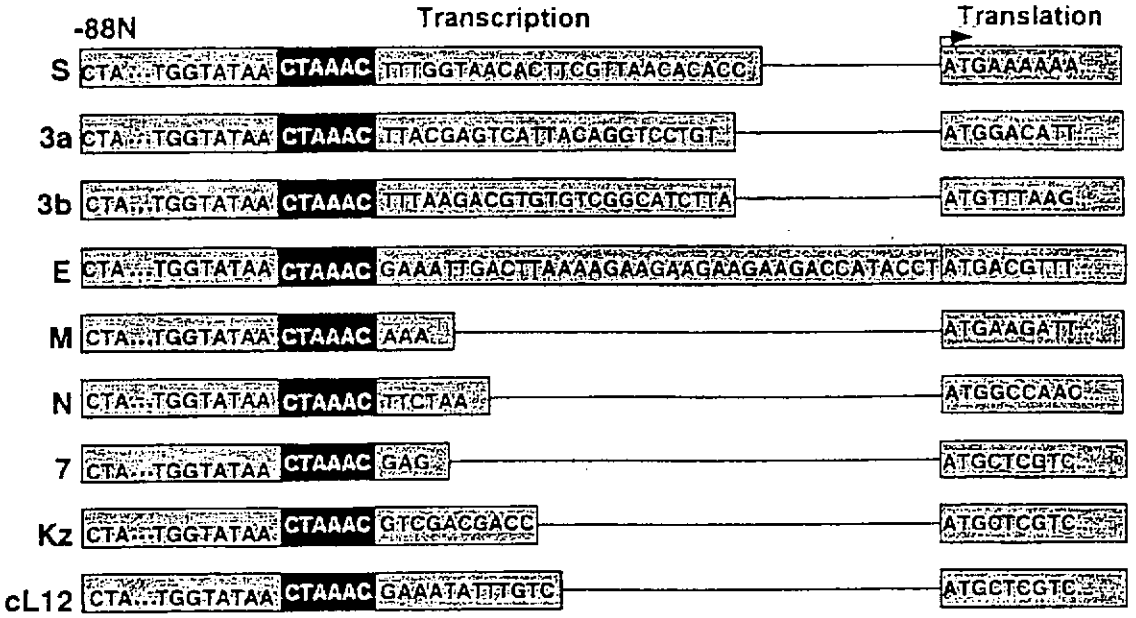


FIGURE 12B

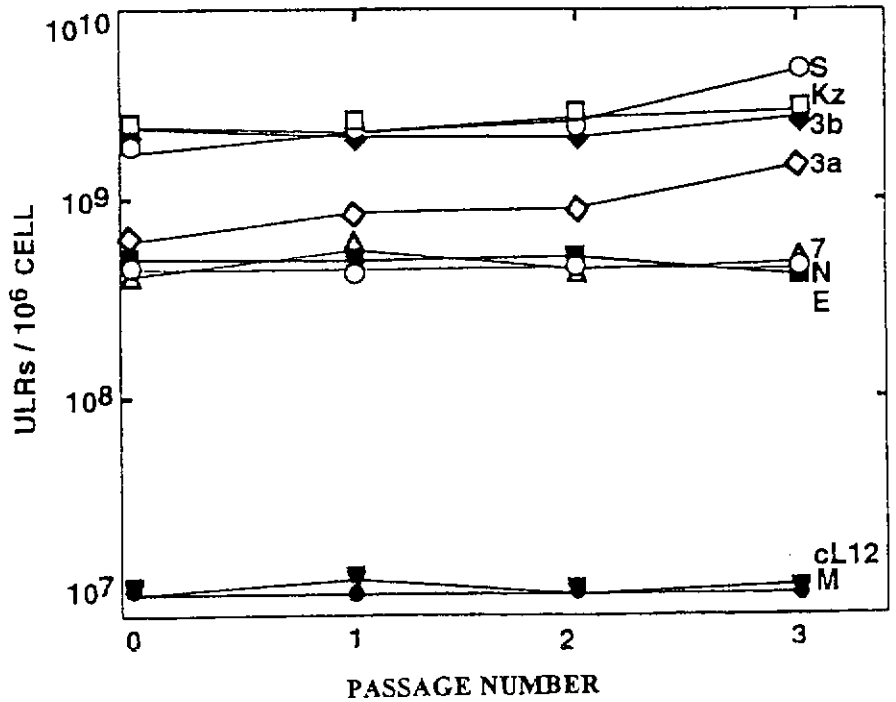


FIGURE 13

FIGURE 13A

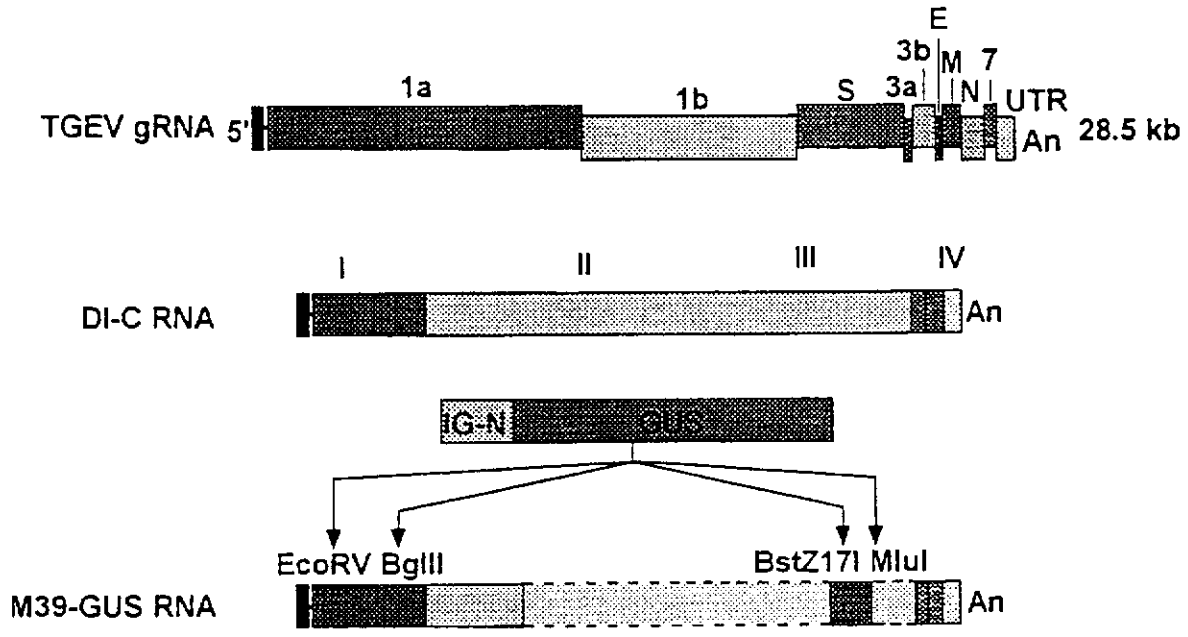


FIGURE 13B

