Fig. 1

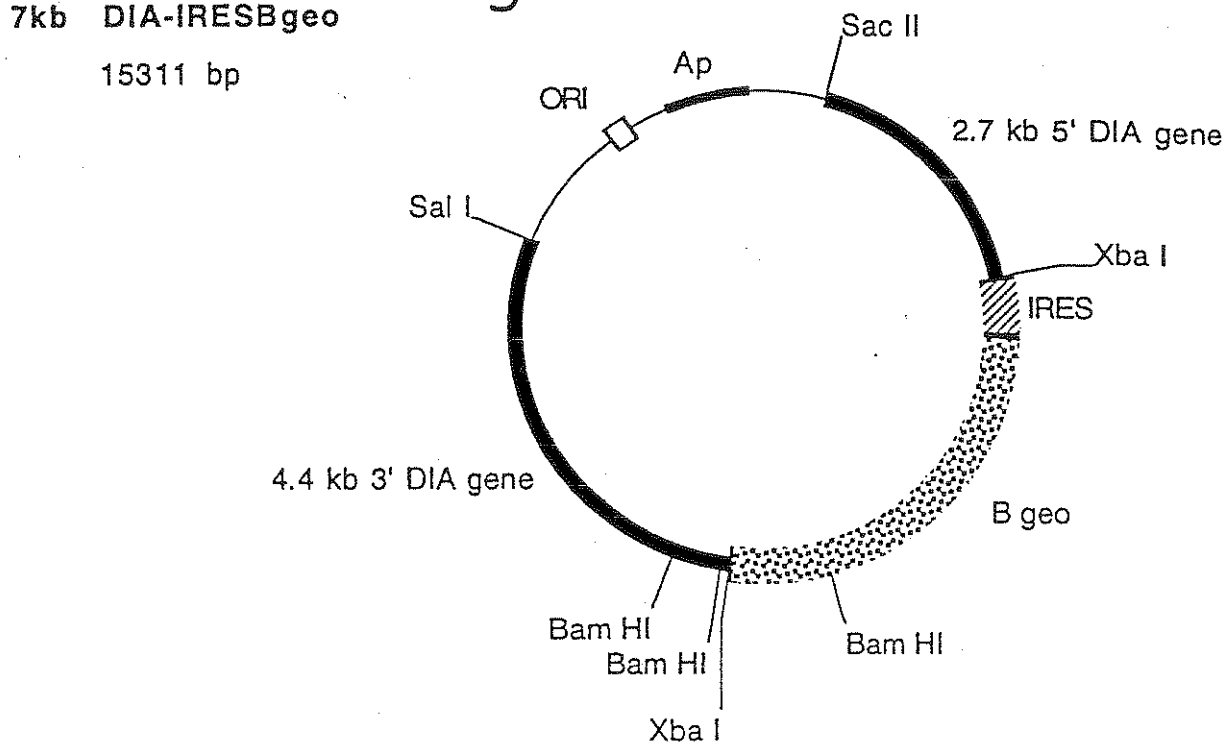

7kb DIA-IRESBgeo
15311 bp
Sac II
Ap
ORI
2.7 kb 5' DIA gene
Sal I
Xba I
IRES
4.4 kb 3' DIA gene
B geo
Bam HI
Bam HI
Bam HI
Xba I

Fig. 2

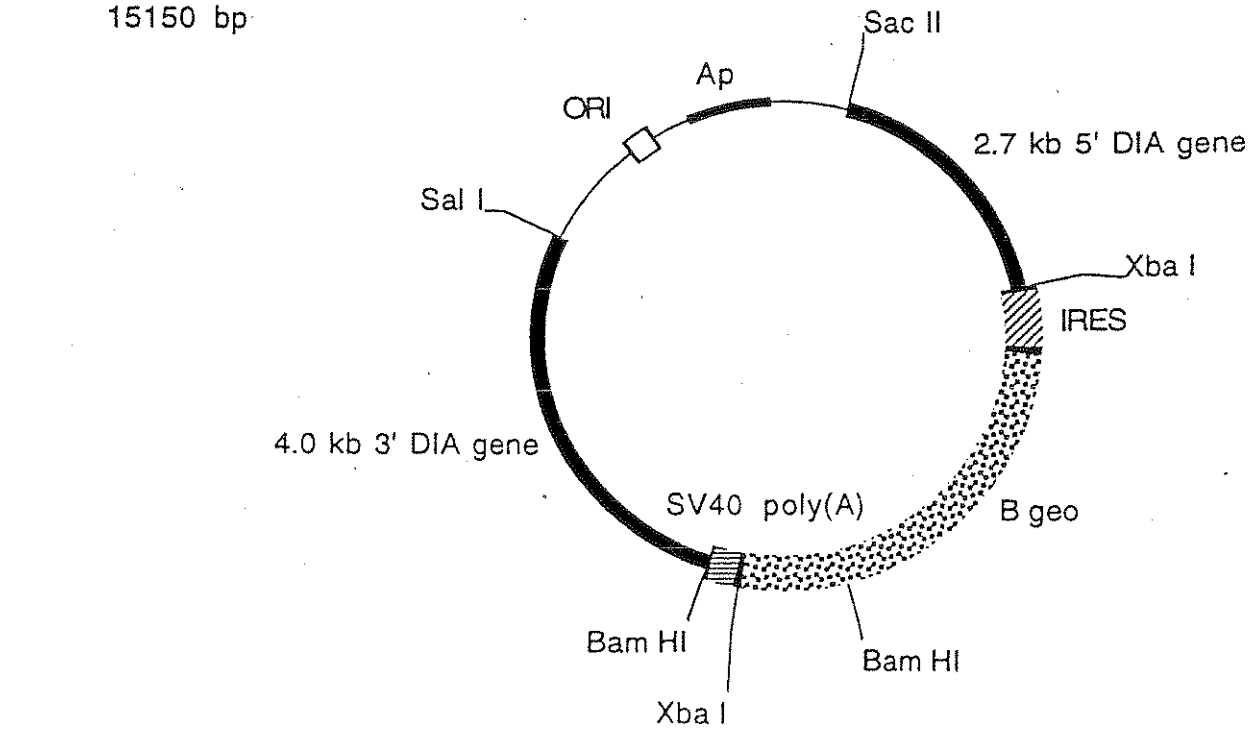

7kb DIA-IRESBgeo-p(A) 1
15150 bp
Sac II
Ap
ORI
2.7 kb 5' DIA gene
Sal I
Xba I
IRES
4.0 kb 3' DIA gene
SV40 poly(A)
B geo
Bam HI
Bam HI
Xba I

Fig.5

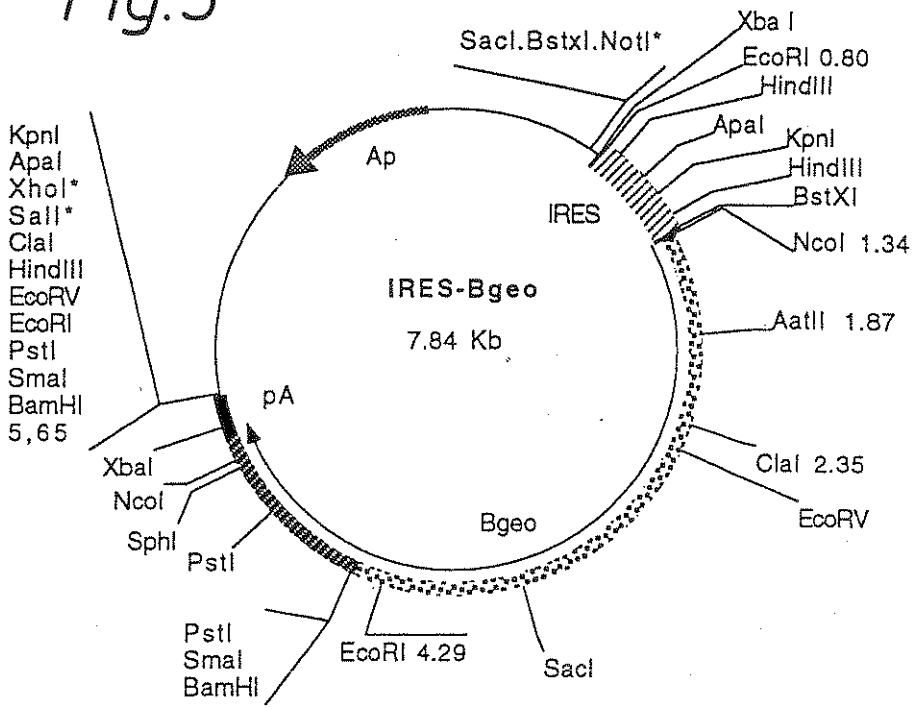

SacI.BstxI.NotI*
Xba I
EcoRI 0.80
HindIII
ApaI
KpnI
HindIII
BstXI
NcoI 1.34
AatII 1.87
ClaI 2.35
EcoRV
SacI
EcoRI 4.29
PstI
SmaI
BamHI
PstI
SphI
NcoI
XbaI
KpnI
ApaI
XhoI*
SalI*
ClaI
HindIII
EcoRV
EcoRI
PstI
SmaI
BamHI
5,65
Ap
IRES
IRES-Bgeo
7.84 Kb
pA
Bgeo

Fig.6

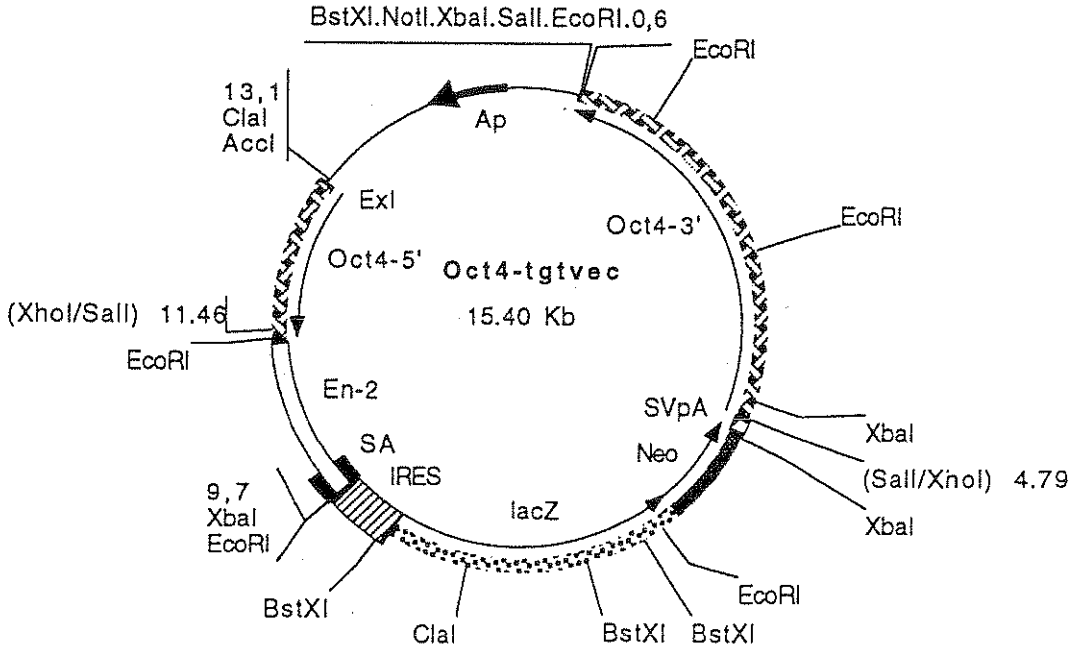

BstXI.NotI.XbaI.SalI.EcoRI.0,6
EcoRI
13,1
ClaI
AccI
Ap
ExI
Oct4-3'
EcoRI
Oct4-5'
Oct4-tgtvec
15.40 Kb
(XhoI/SalI) 11.46
EcoRI
En-2
SVpA
XbaI
SA
Neo
(SalI/XhoI) 4.79
IRES
XbaI
9,7
XbaI
EcoRI
lacZ
EcoRI
BstXI
ClaI
BstXI
BstXI

Fig. 7

DICISTRONIC INITIATION OF TRANSLATION

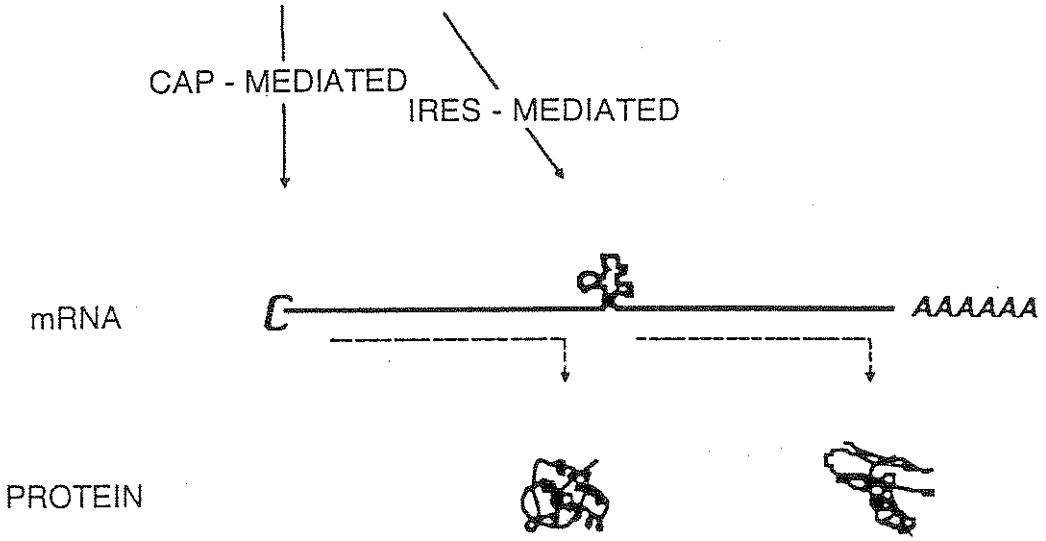
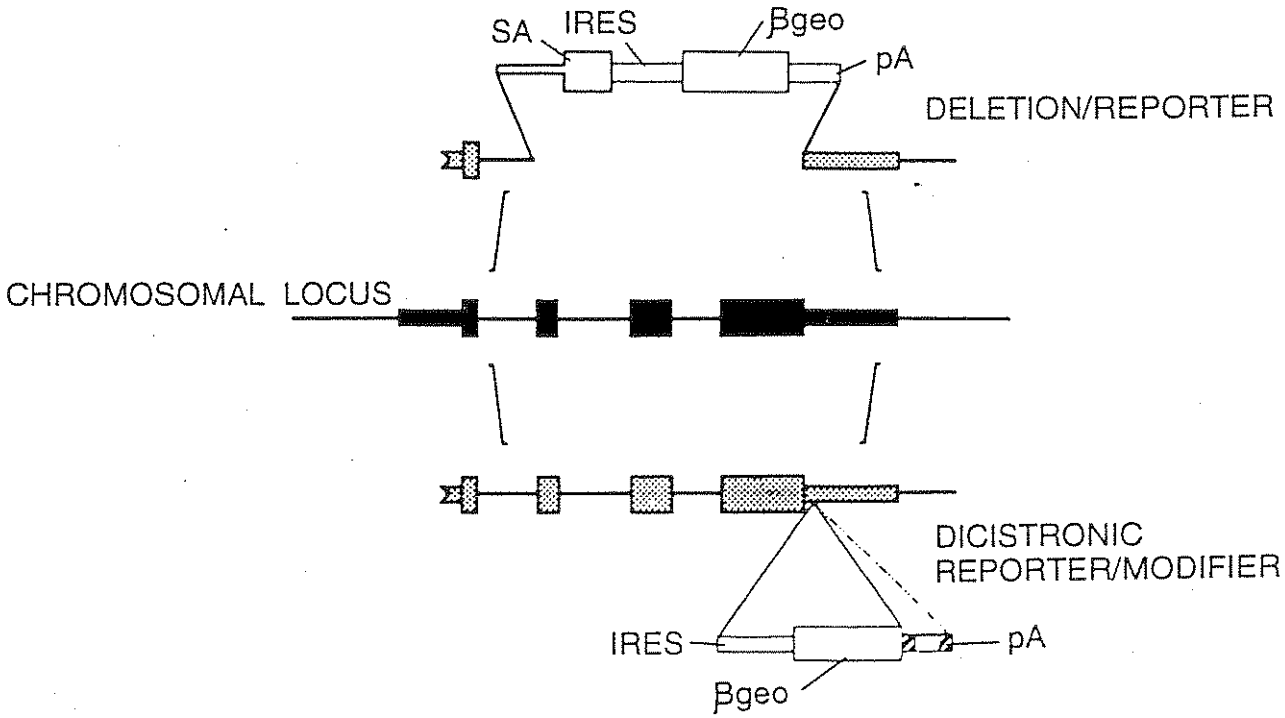


Fig. 8

TARGETING OPTIONS



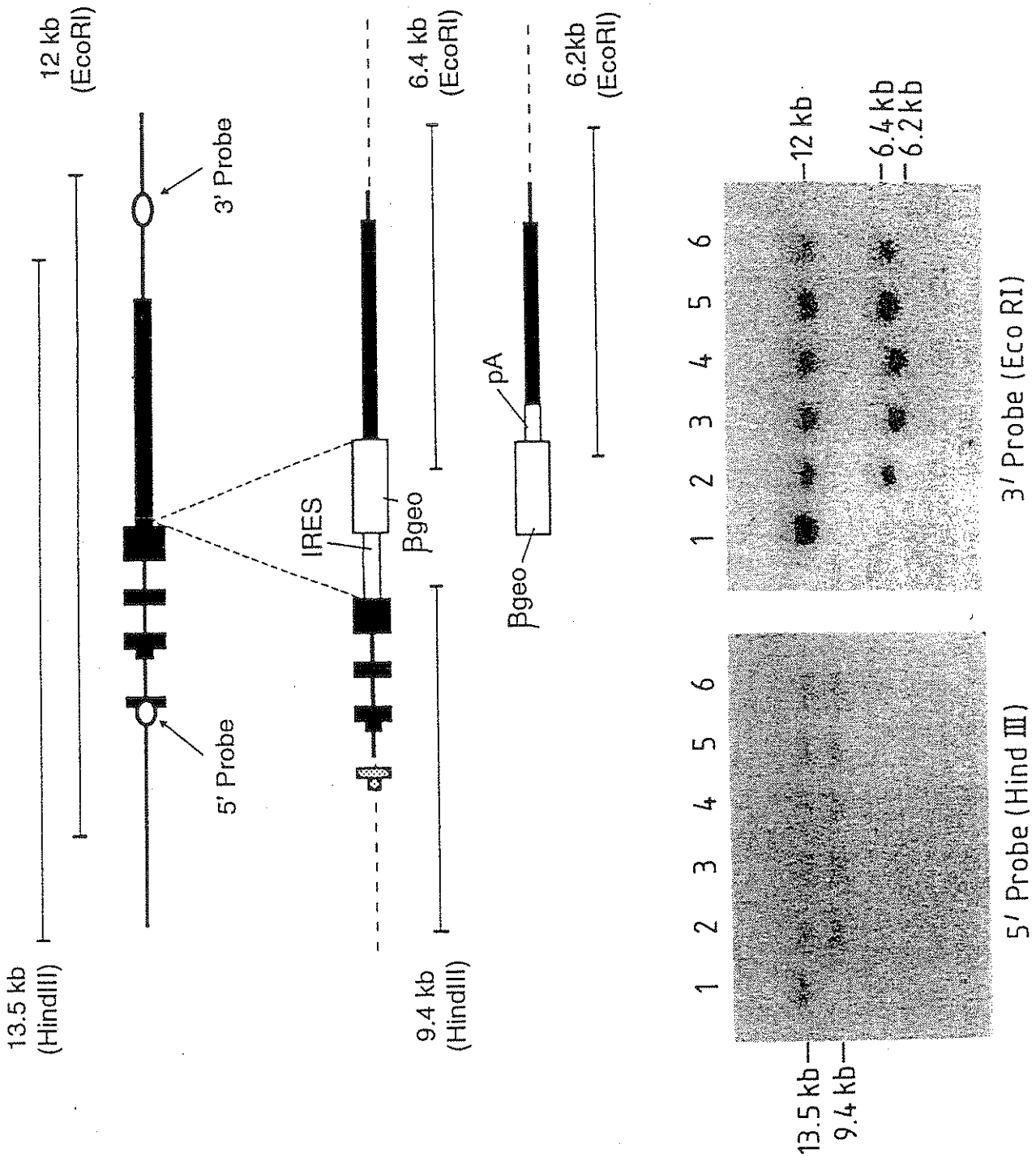
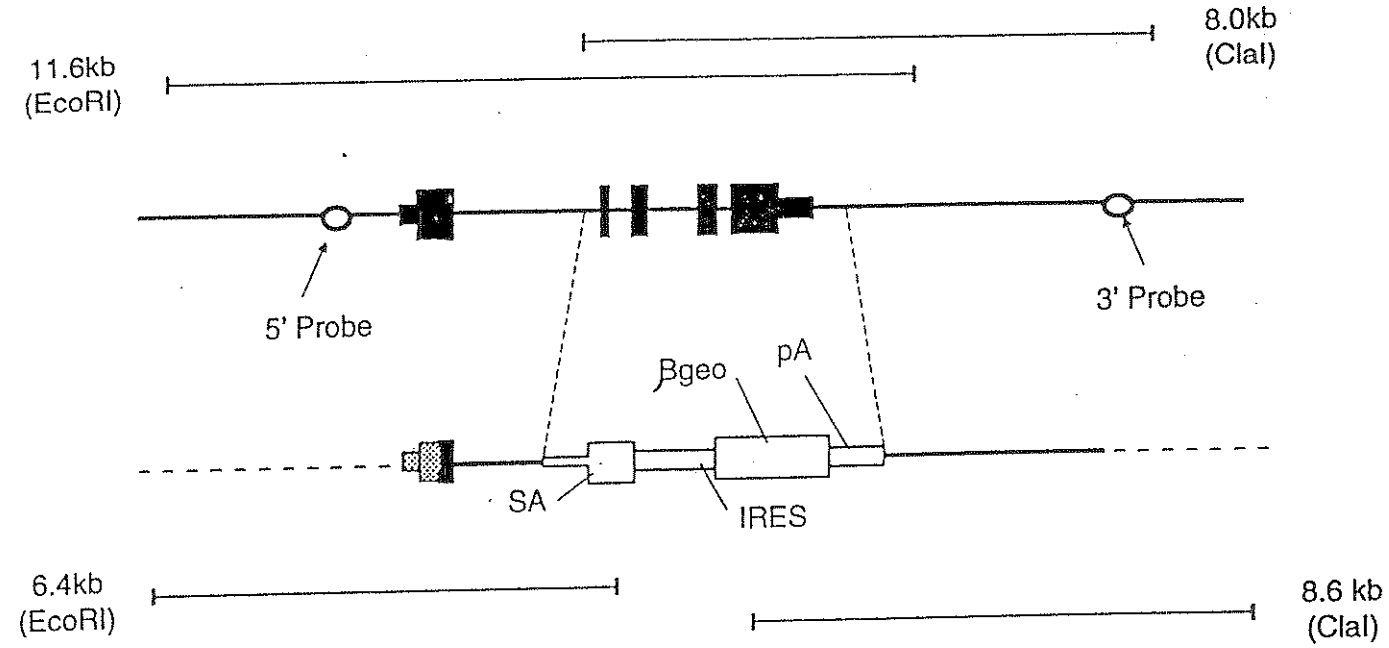

12 kb
(EcoRI)
3' Probe
6.4 kb
(EcoRI)
6.2kb
(EcoRI)
5' Probe
IRES
Bgeo
pA
Bgeo
13.5 kb
(HindIII)
9.4 kb
(HindIII)
1 2 3 4 5 6
12 kb
6.4 kb
6.2 kb
3' Probe (Eco RI)
1 2 3 4 5 6
13.5 kb
9.4 kb
5' Probe (Hind III)

Fig. 9

Fig. 10


8.0kb
(ClaI)
11.6kb
(EcoRI)
5' Probe
3' Probe
βgeo
pA
SA
IRES
6.4kb
(EcoRI)
8.6 kb
(ClaI)

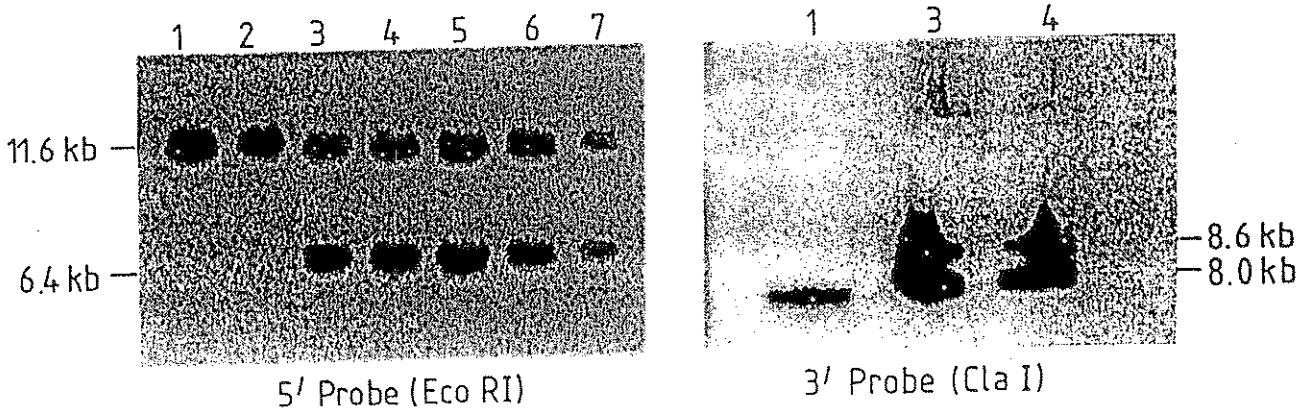
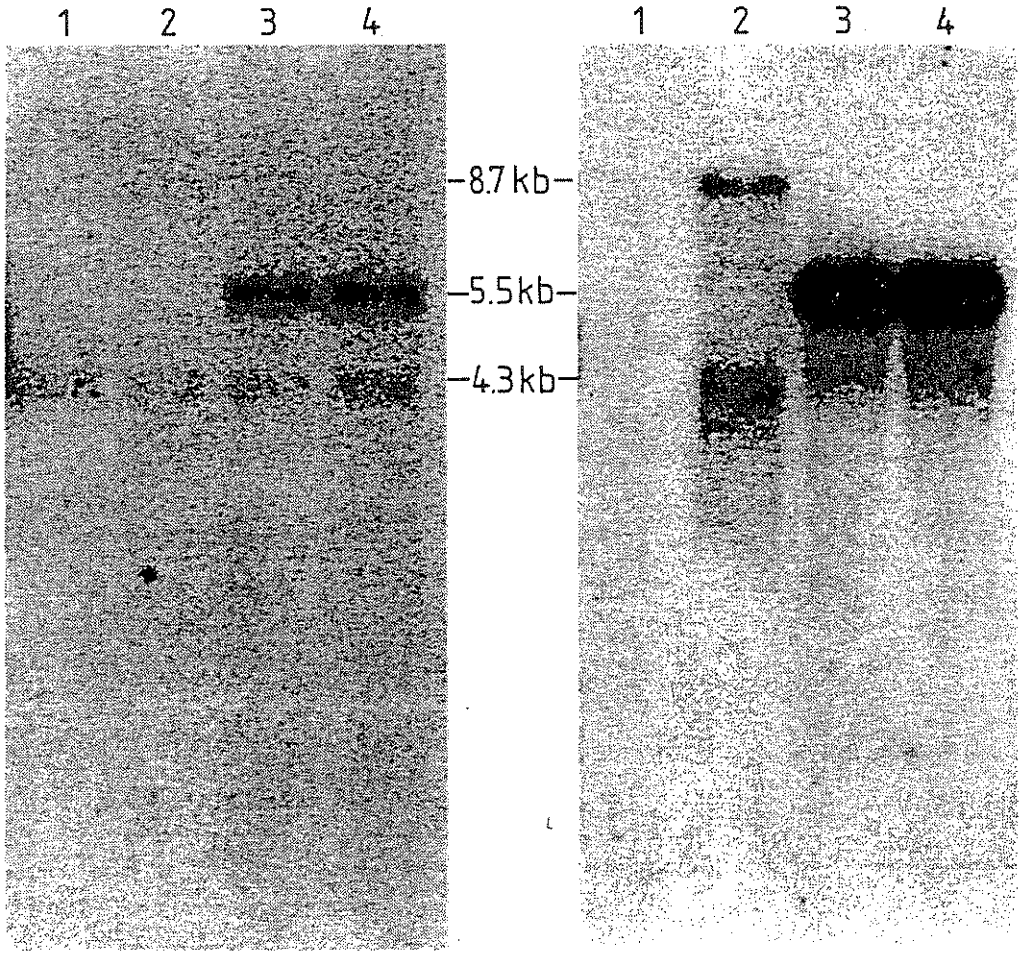

1 2 3 4 5 6 7
11.6 kb
6.4 kb
5' Probe (Eco RI)
1 3 4
8.6 kb
8.0 kb
3' Probe (Cla I)

Fig. 11.



DIA (coding region) Probe

lacZ Probe

Fig. 12.

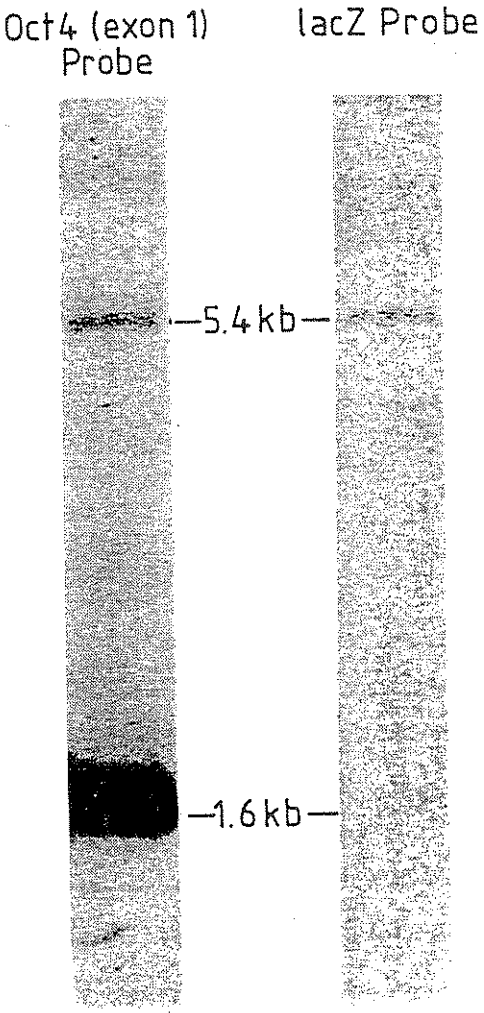
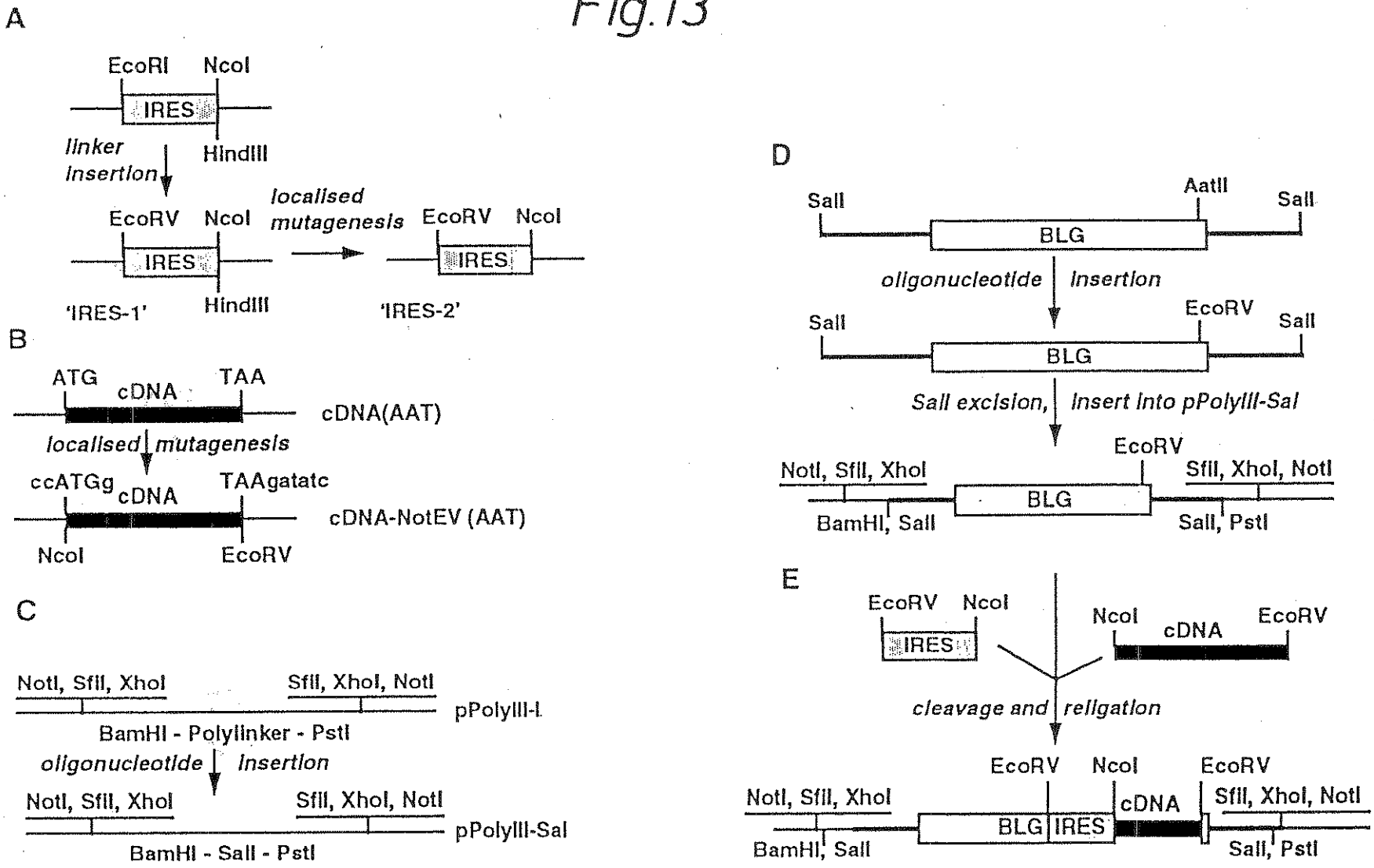


Fig.13


A
EcoRI
NcoI
IRES
linker insertion
HindIII
EcoRV
NcoI
localised mutagenesis
EcoRV
NcoI
IRES
IRES
'IRES-1'
HindIII
'IRES-2'
B
ATG
cDNA
TAA
cDNA(AAT)
localised mutagenesis
ccATGg
cDNA
TAAgatatc
cDNA-NotEV (AAT)
NcoI
EcoRV
C
NotI, SfiI, XhoI
SfiI, XhoI, NotI
pPolyIII-I
BamHI - Polylinker - PstI
oligonucleotide insertion
NotI, SfiI, XhoI
SfiI, XhoI, NotI
pPolyIII-Sal
BamHI - SalI - PstI
D
SalI
AatII
SalI
BLG
oligonucleotide insertion
SalI
EcoRV
SalI
BLG
SalI excision, insert into pPolyIII-Sal
EcoRV
NotI, SfiI, XhoI
SfiI, XhoI, NotI
BLG
BamHI, SalI
SalI, PstI
E
EcoRV
NcoI
IRES
NcoI
cDNA
EcoRV
cleavage and religation
EcoRV
NcoI
EcoRV
NotI, SfiI, XhoI
SfiI, XhoI, NotI
cDNA
BLG
IRES
BamHI, SalI
SalI, PstI