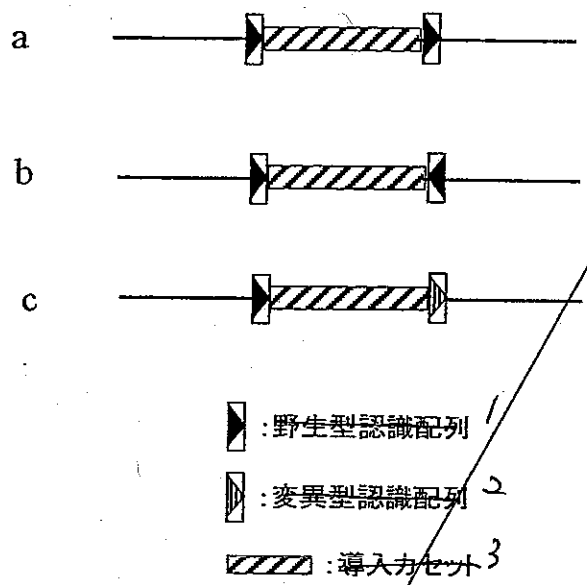
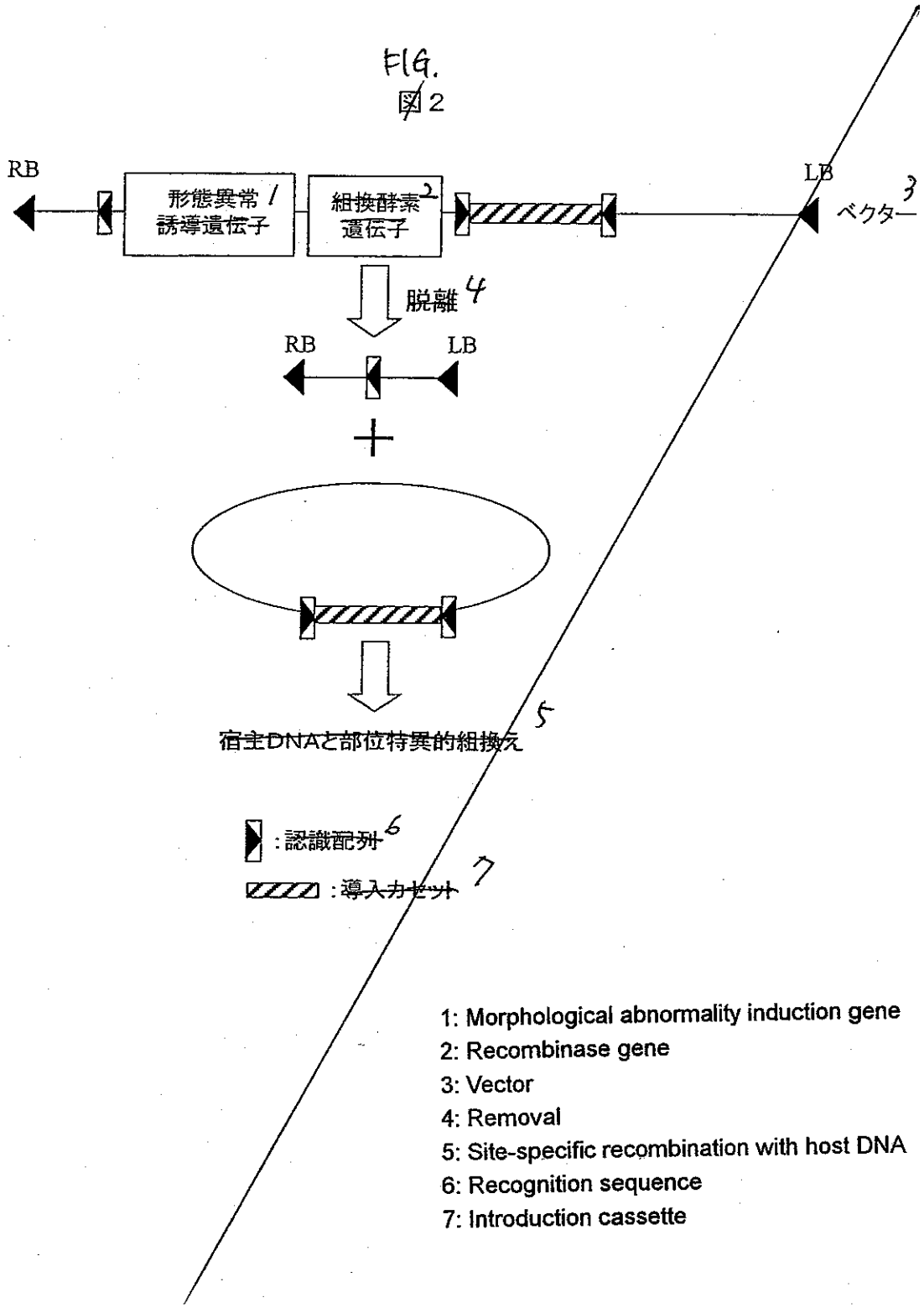
FIG.
図1



1: Wild type recognition sequence
2: Mutation type recognition sequence
3. Introduction cassette

FIG.
図2



1: Morphological abnormality induction gene
2: Recombinase gene
3: Vector
4: Removal
5: Site-specific recombination with host DNA
6: Recognition sequence
7: Introduction cassette

FIG.
図3

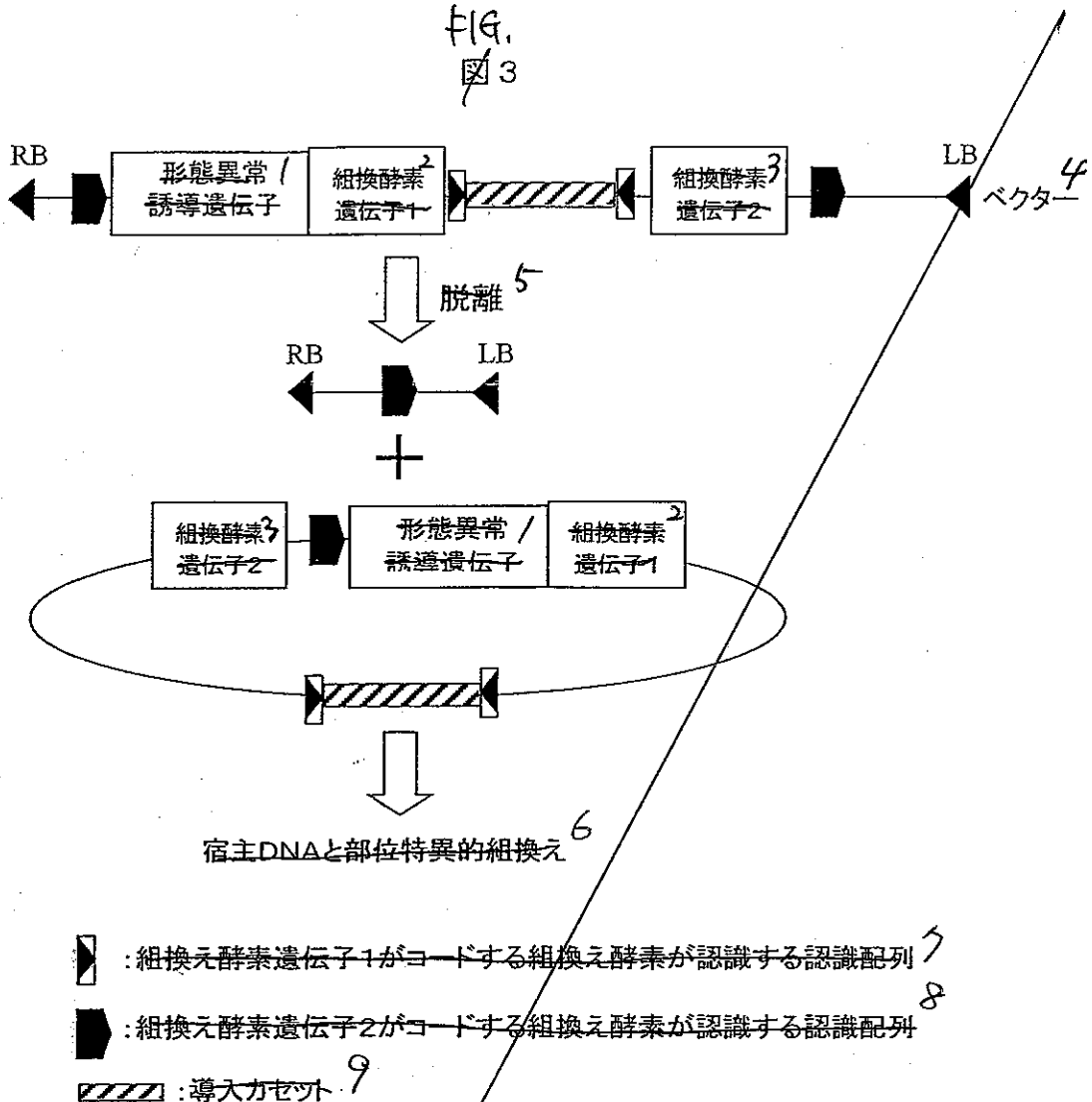
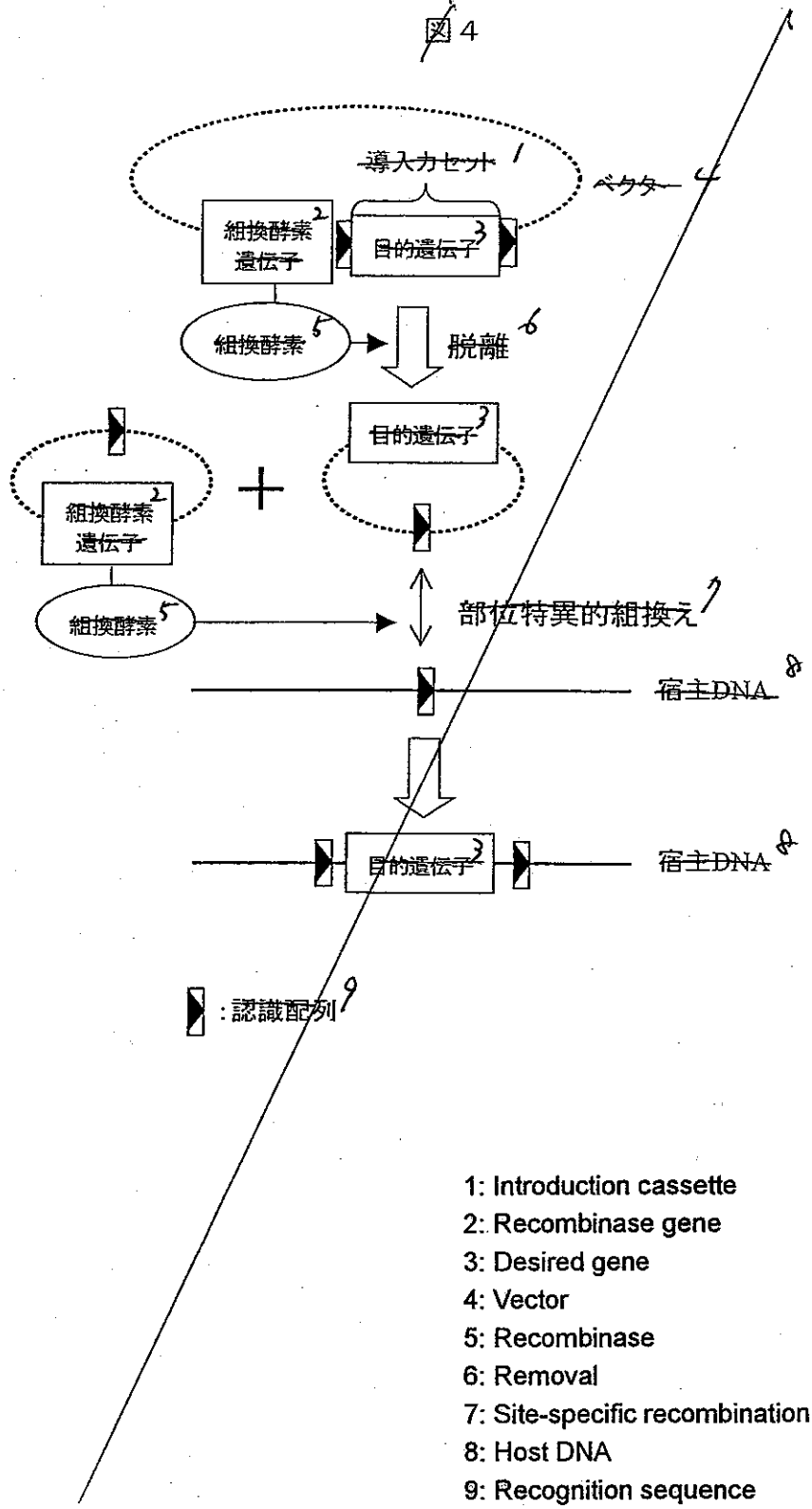


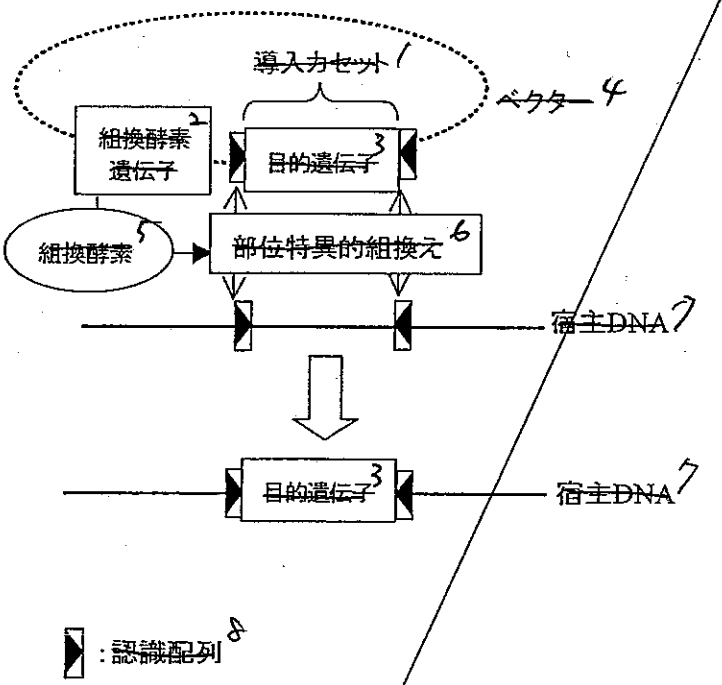
Fig. 3
1: Morphological abnormality induction gene
2: Recombinase gene 1
3: Recombinase gene 2
4: Vector
5: Removal
6: Site-specific recombination with host DNA
7: Recognition sequence recognizable by recombinase encoded by recombinase gene 1
8: Recognition sequence recognizable by recombinase encoded by recombinase gene 2
9: Introduction cassette

FIG.
図 4



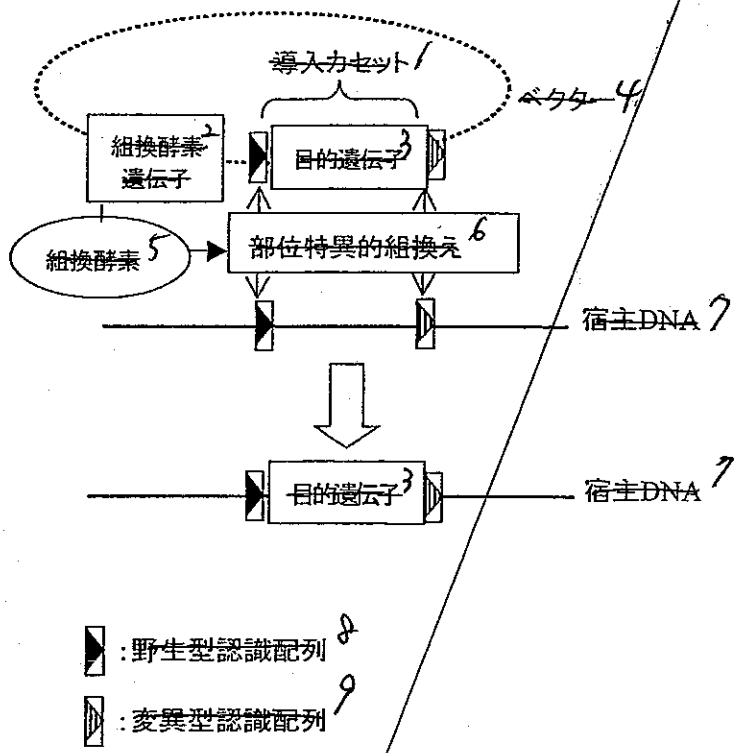
1: Introduction cassette
2: Recombinase gene
3: Desired gene
4: Vector
5: Recombinase
6: Removal
7: Site-specific recombination
8: Host DNA
9: Recognition sequence

FIG.
図5



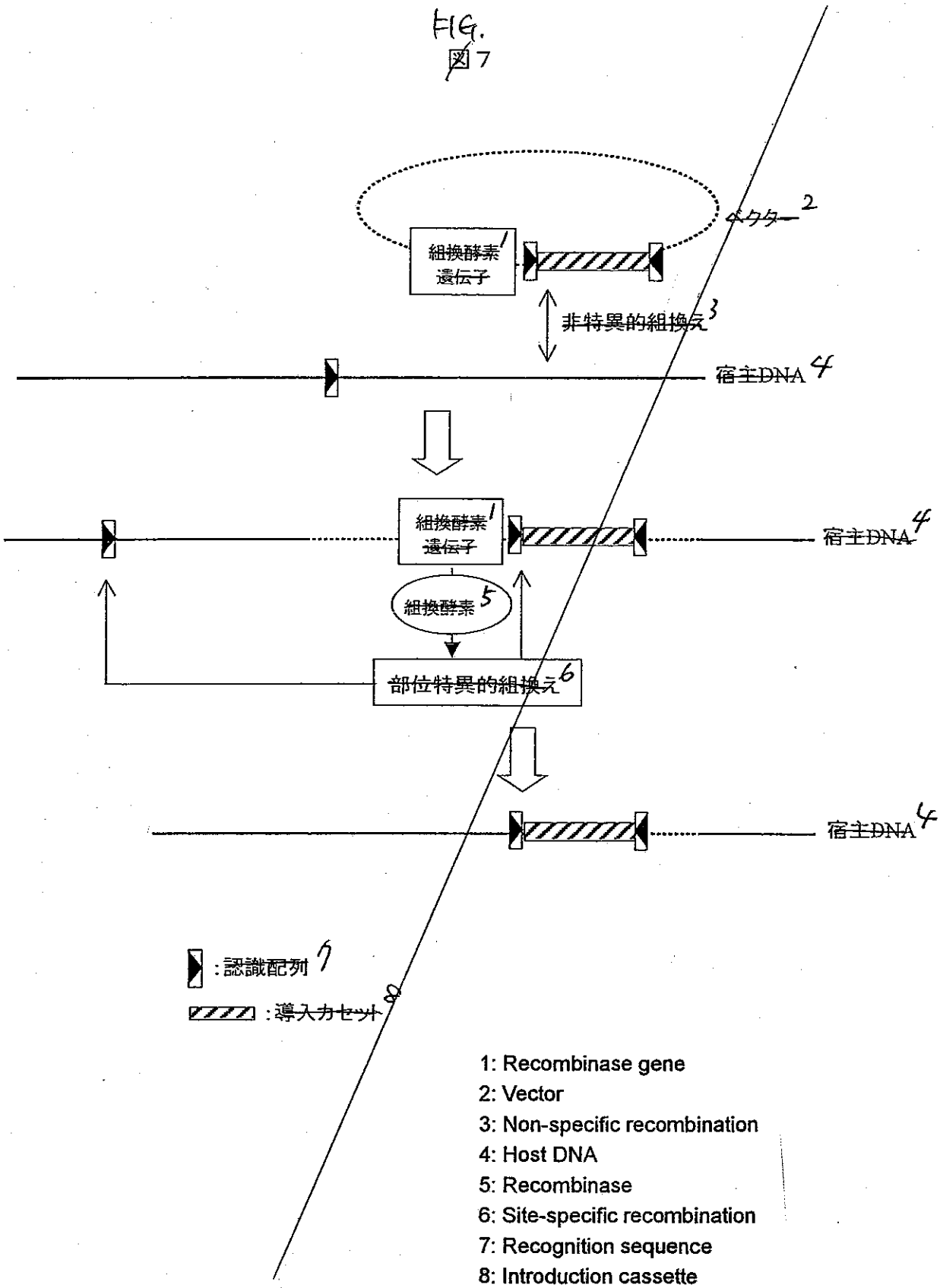
1: Introduction cassette
2: Recombinase gene
3: Desired gene
4: Vector
5: Recombinase
6: Site-specific recombination
7: Host DNA
8: Recognition sequence

FIG.
図6



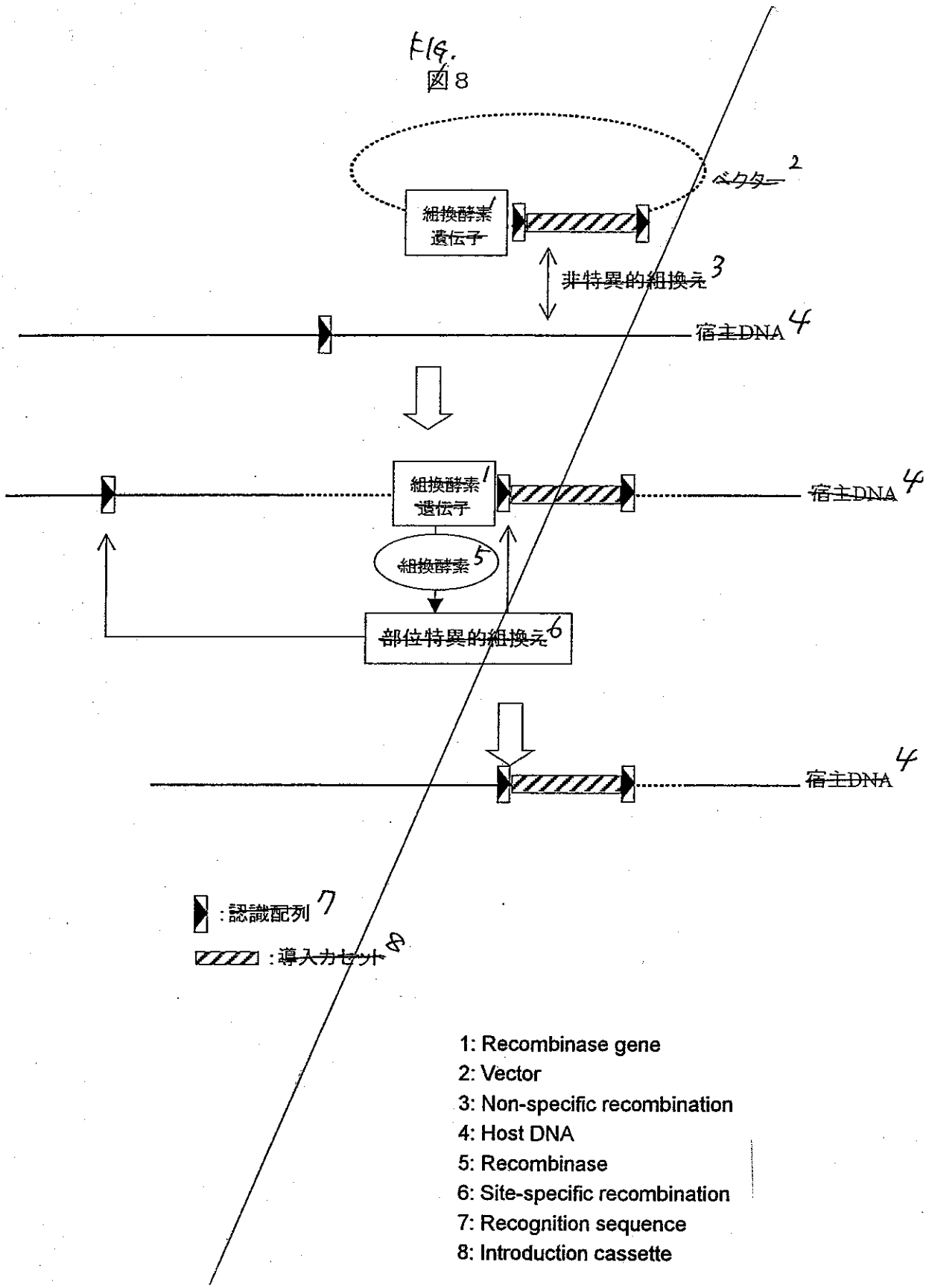
1: Introduction cassette
2: Recombinase gene
3: Desired gene
4: Vector
5: Recombinase
6: Site-specific recombination
7: Host DNA
8: Wild type recognition sequence
9: Mutation type recognition sequence

FIG.
図7



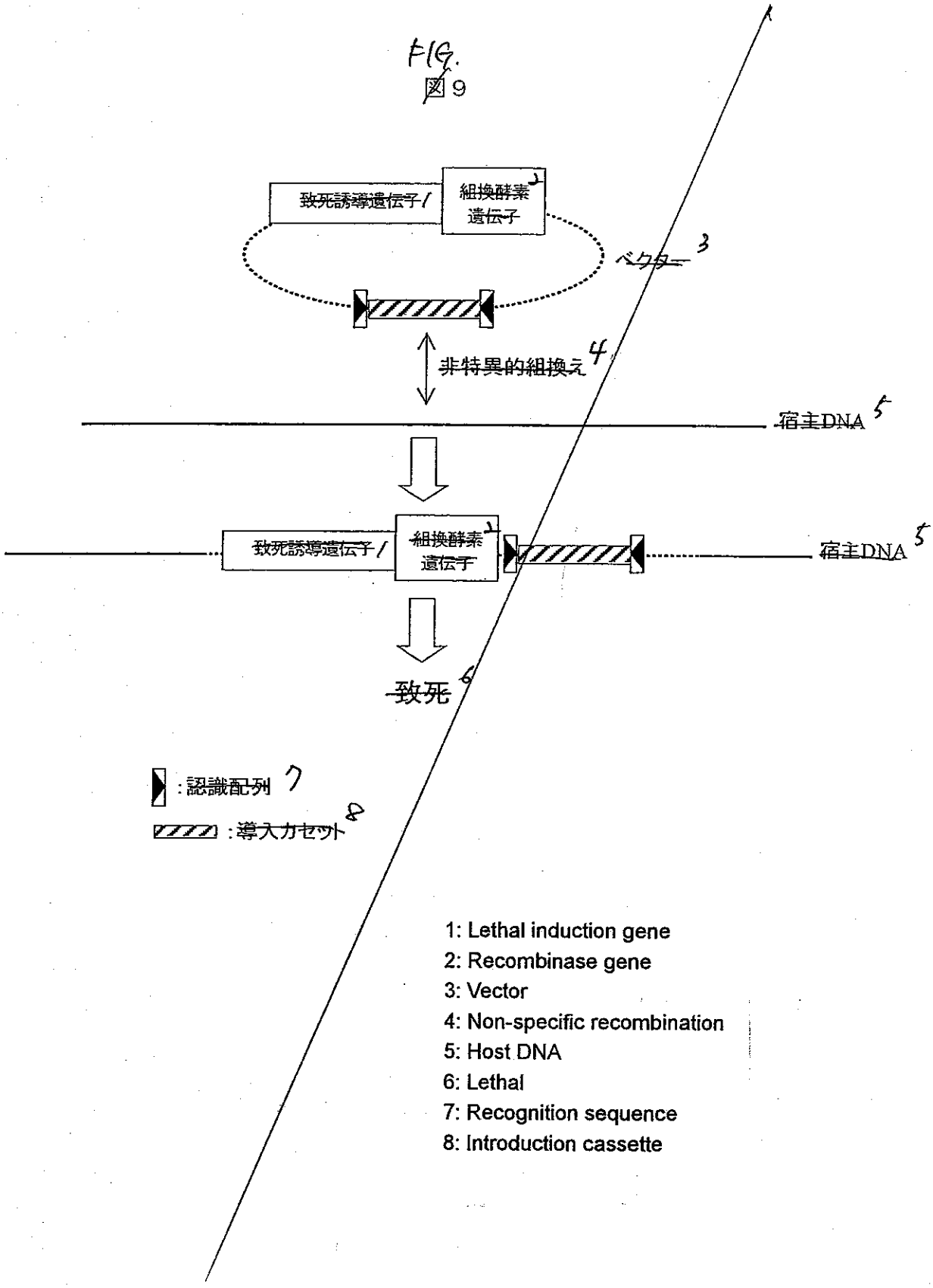
1: Recombinase gene
2: Vector
3: Non-specific recombination
4: Host DNA
5: Recombinase
6: Site-specific recombination
7: Recognition sequence
8: Introduction cassette

Fig.
図8



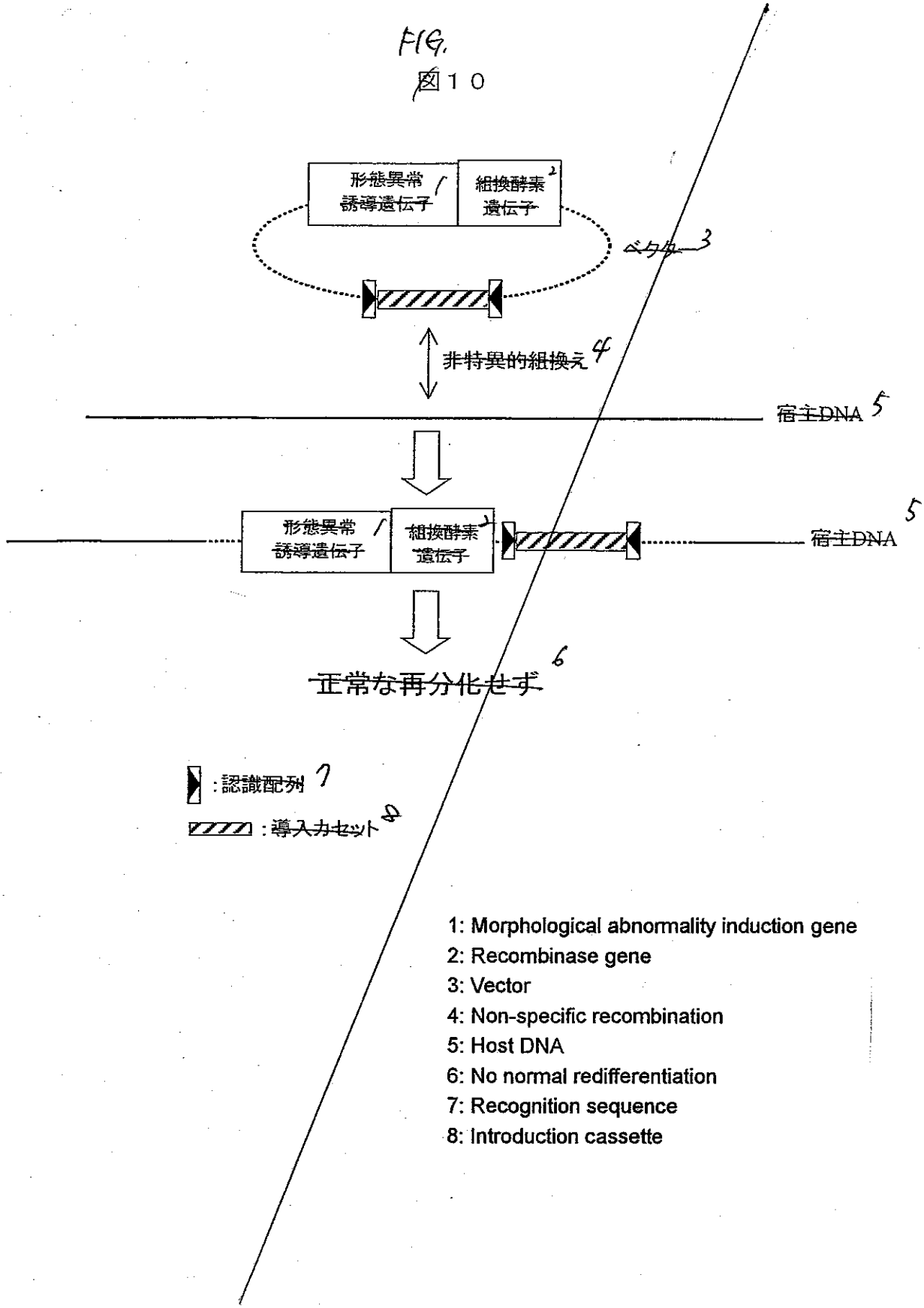
1: Recombinase gene
2: Vector
3: Non-specific recombination
4: Host DNA
5: Recombinase
6: Site-specific recombination
7: Recognition sequence
8: Introduction cassette

FIG.
図9



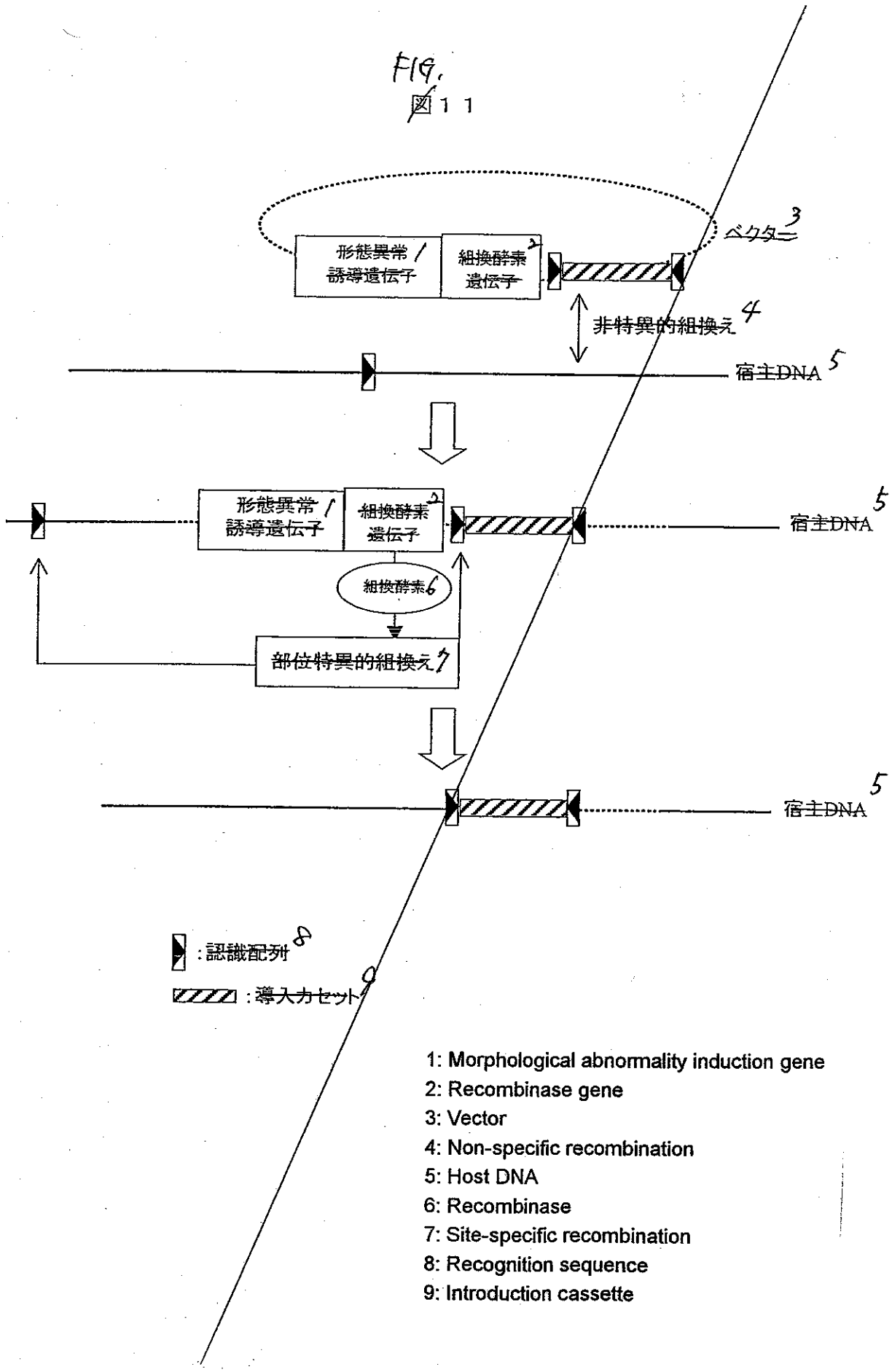
1: Lethal induction gene
2: Recombinase gene
3: Vector
4: Non-specific recombination
5: Host DNA
6: Lethal
7: Recognition sequence
8: Introduction cassette

FIG.
図１０



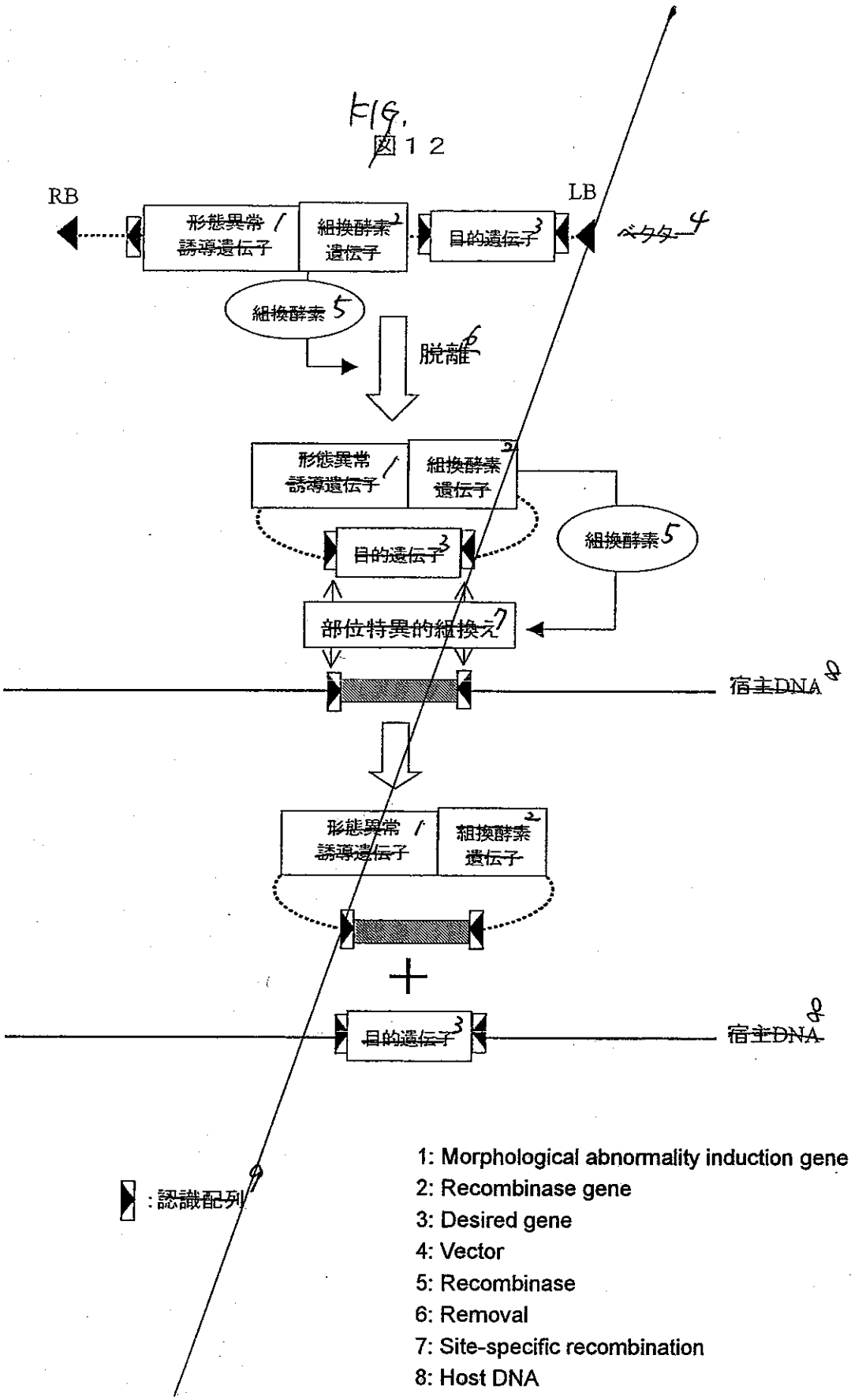
1: Morphological abnormality induction gene
2: Recombinase gene
3: Vector
4: Non-specific recombination
5: Host DNA
6: No normal redifferentiation
7: Recognition sequence
8: Introduction cassette

Fig.
図１１



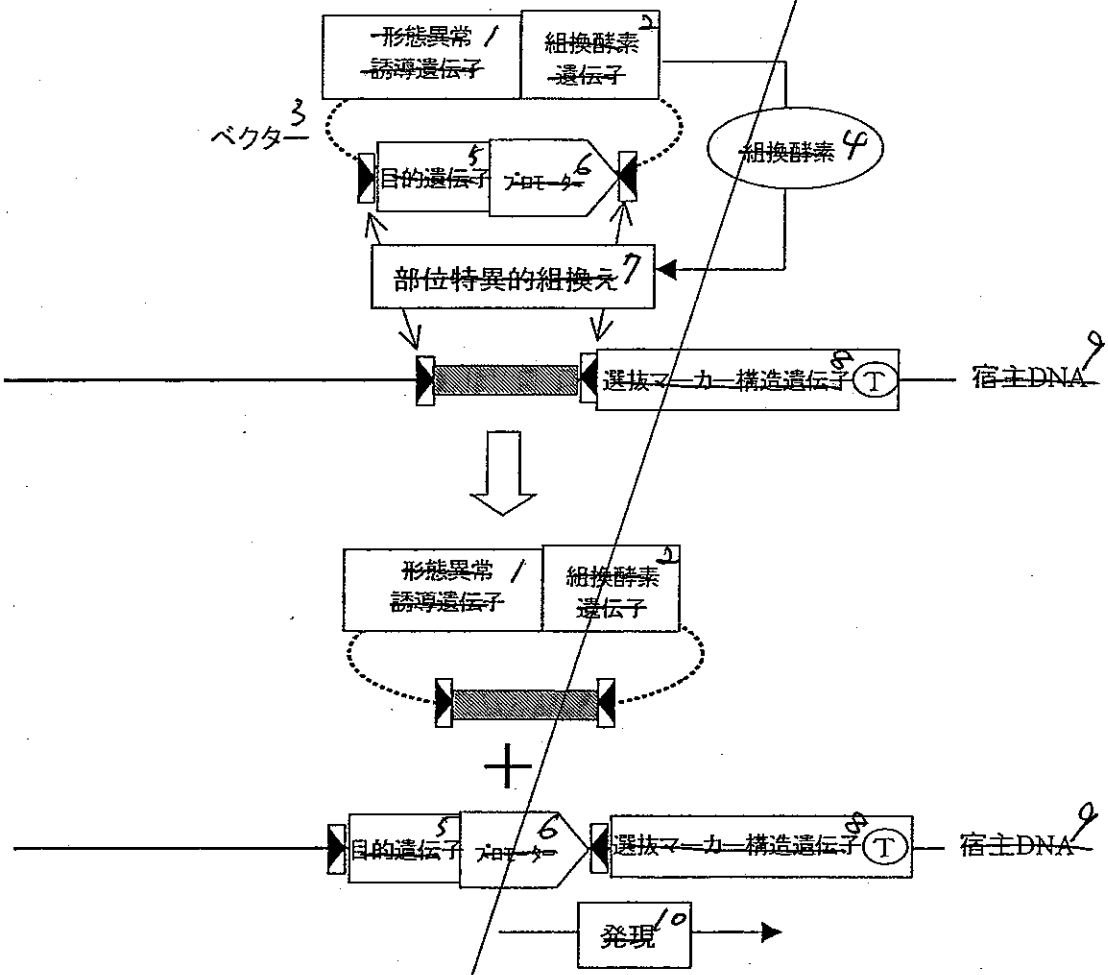
1: Morphological abnormality induction gene
2: Recombinase gene
3: Vector
4: Non-specific recombination
5: Host DNA
6: Recombinase
7: Site-specific recombination
8: Recognition sequence
9: Introduction cassette

Fig.
図１２



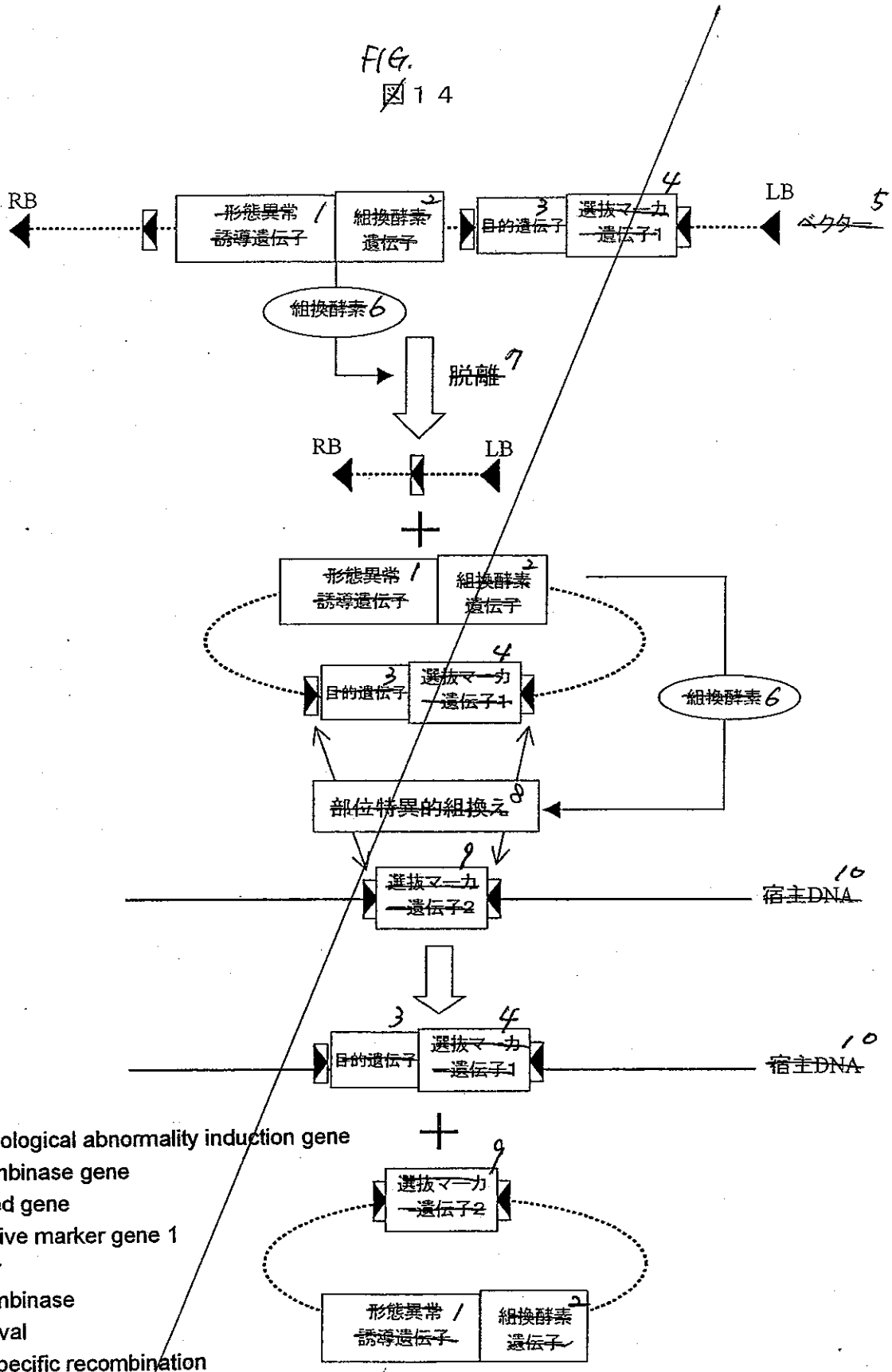
1: Morphological abnormality induction gene
2: Recombinase gene
3: Desired gene
4: Vector
5: Recombinase
6: Removal
7: Site-specific recombination
8: Host DNA
9: Recognition sequence

FIG.
図１３



1: Morphological abnormality induction gene
2: Recombinase gene
3: Vector
4: Recombinase
5: Desired gene
6: Promoter
7: Site-specific recombination
8: Selective marker structural gene
9: Host DNA
10: Expression
11: Recognition sequence
12: Terminator

FIG.
図１４



1: Morphological abnormality induction gene
2: Recombinase gene
3: Desired gene
4: Selective marker gene 1
5: Vector
6: Recombinase
7: Removal
8: Site-specific recombination
9: Selective marker gene 2
10: Host DNA

Fig. 15

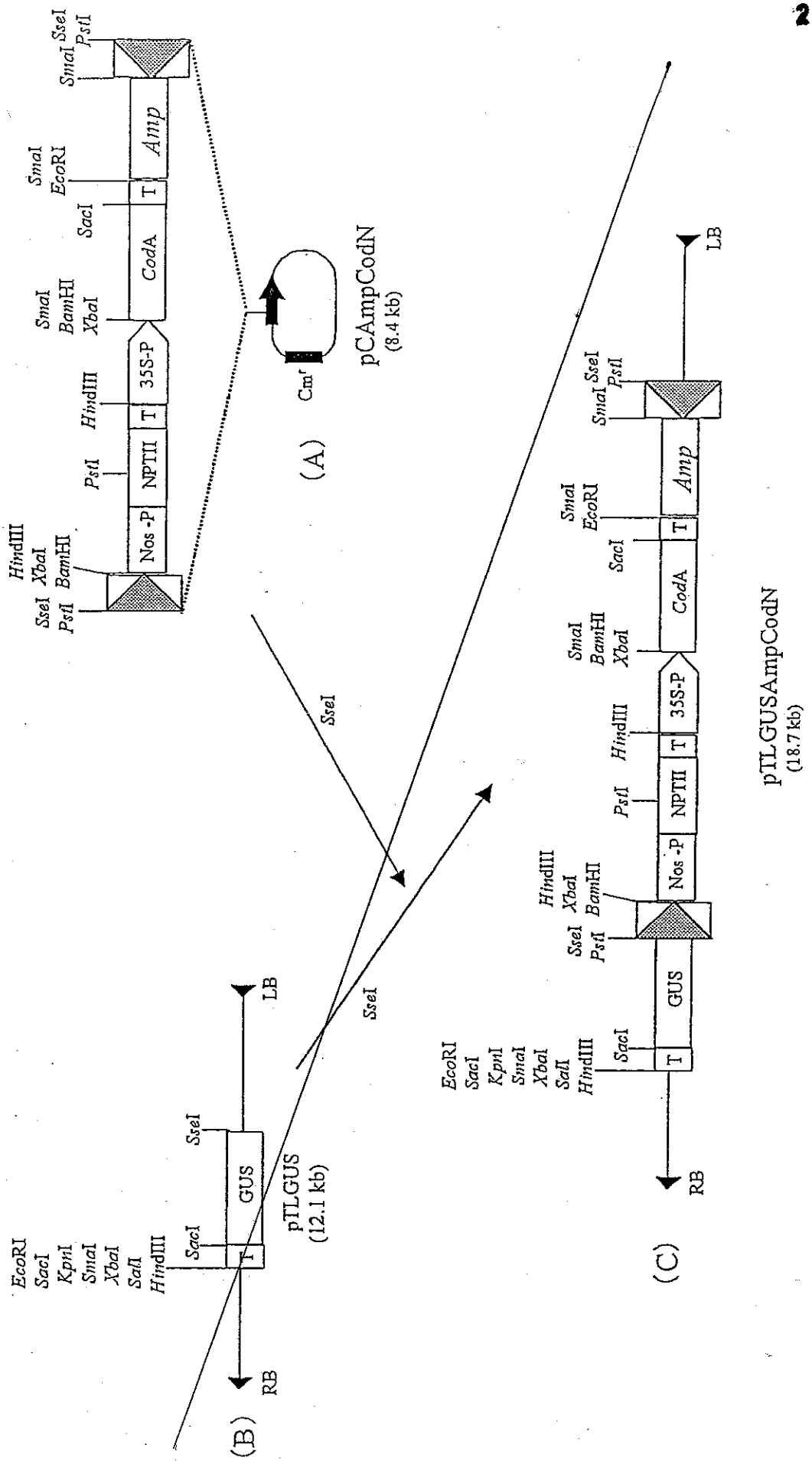

(A)
pCAmpCodN
(8.4 kb)
Cmr
Nos -P
NPTII
T
35S-P
CodA
Amp
(B)
pTLGUS
(12.1 kb)
GUS
LB
RB
(C)
pTLGUSAmpCodN
(18.7 kb)
SseI
PstI
SmaI
EcoRI
SacI
KpnI
XbaI
SalI
HindIII
BamHI

Fig. 16

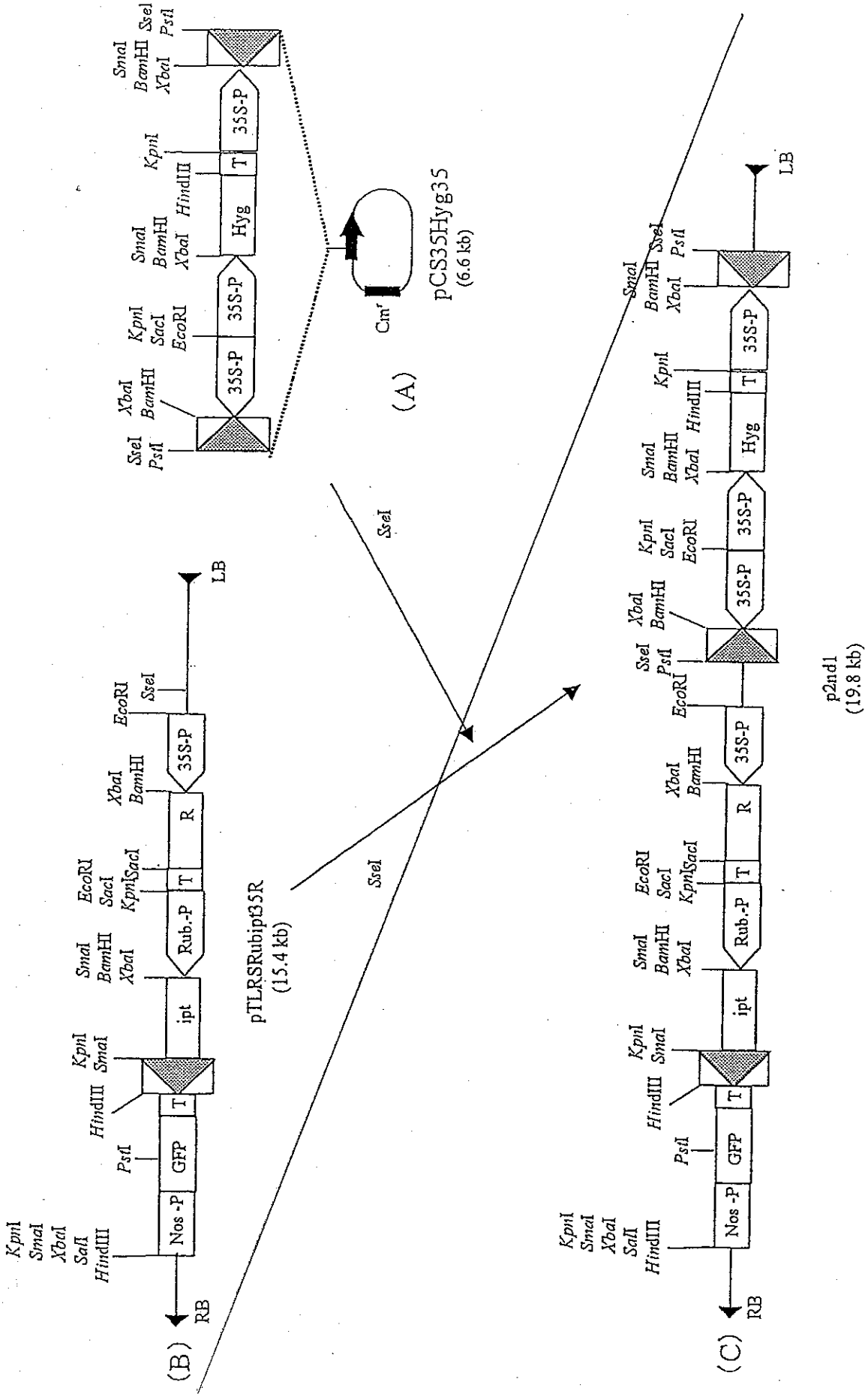

(A)
pCS35Hyg35
(6.6 kb)
Cm'
SseI
PstI
XbaI
BamHI
SmaI
XbaI
BamHI
SacI
EcoRI
KpnI
35S-P
Hyg
HindIII
T
KpnI
35S-P
SseI
PstI
pTLRSRubipt35R
(15.4 kb)
(B)
LB
RB
KpnI
SmaI
XbaI
SalI
HindIII
Nos -P
GFP
T
HindIII
PstI
KpnI
SmaI
ipt
XbaI
BamHI
SmaI
Rub.-P
T
KpnI
SacI
EcoRI
XbaI
BamHI
R
35S-P
EcoRI
SseI
(C)
p2nd1
(19.8 kb)

FIG.
図17

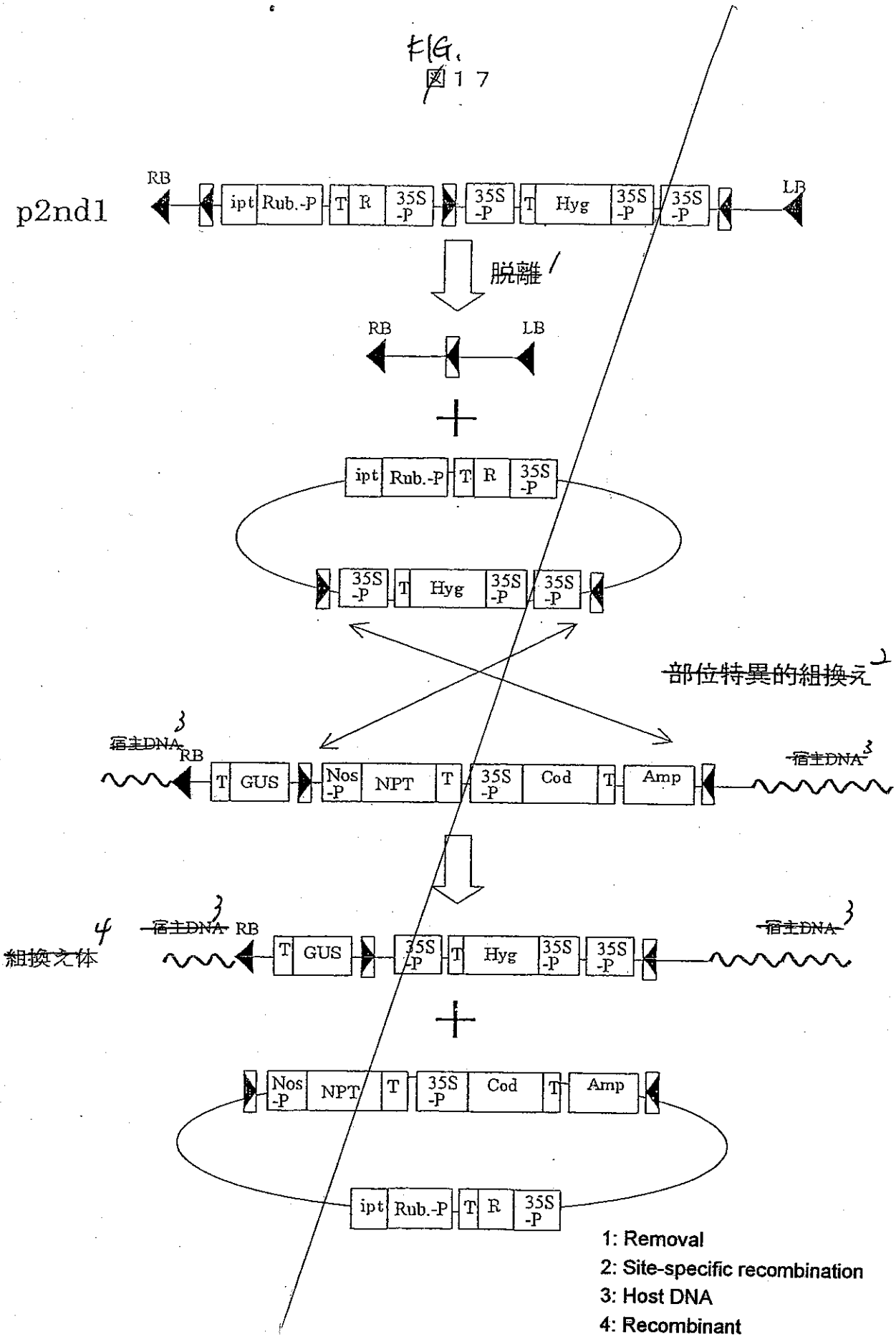

p2nd1
RB
ipt
Rub.-P
T
R
35S -P
T
Hyg
LB
脱離 1
部位特異的組換え 2
宿主DNA 3
GUS
Nos -P
NPT
Cod
Amp
組換え体 4
1: Removal
2: Site-specific recombination
3: Host DNA
4: Recombinant

Fig. 18
図18

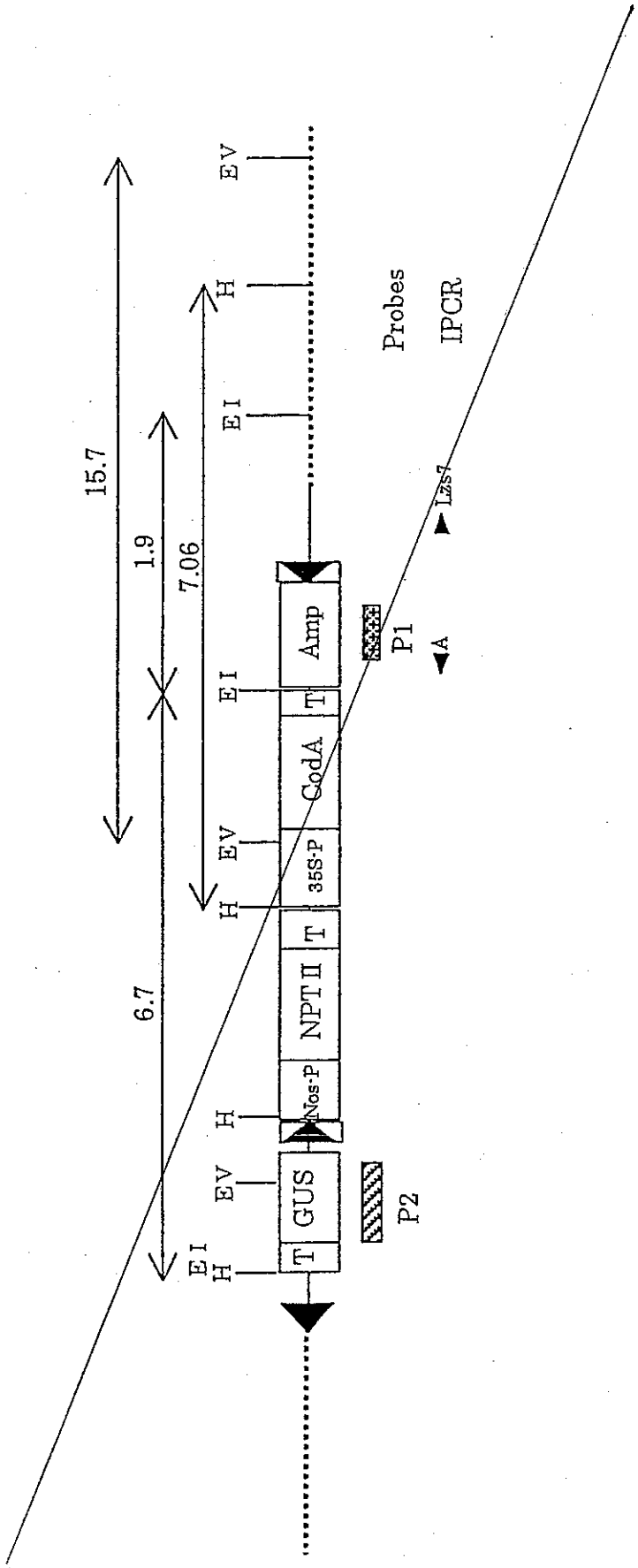

15.7
1.9
7.06
6.7
EV
H
EI
Amp
T
CodA
35S-P
NPT II
Nos-P
GUS
Probes
IPCR
P1
P2
A
Lzs7

Fig. 図19

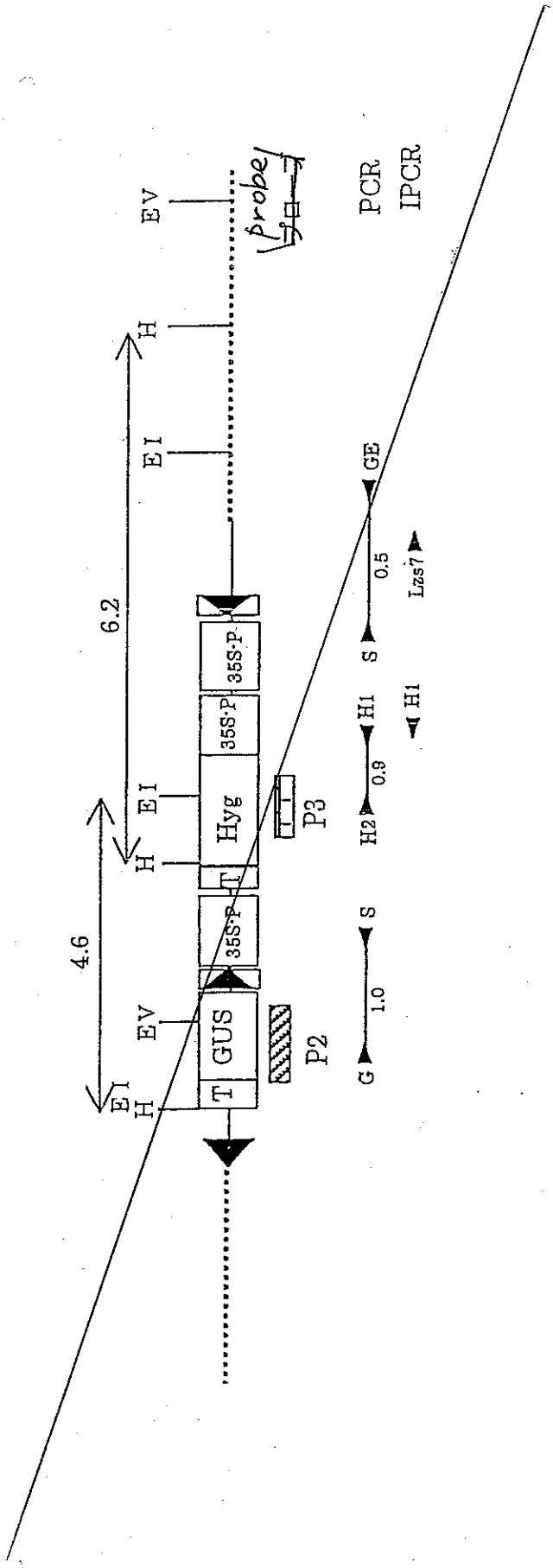

EV
H
EI
6.2
EI
H
4.6
EV
EI
H
35S-P
35S-P
Hyg
T
35S-P
GUS
T
P3
P2
PCR
IPCR
GE
0.5
S
Lzs7
H1
H1
0.9
H2
S
1.0
G
probe

Fig.
図２０

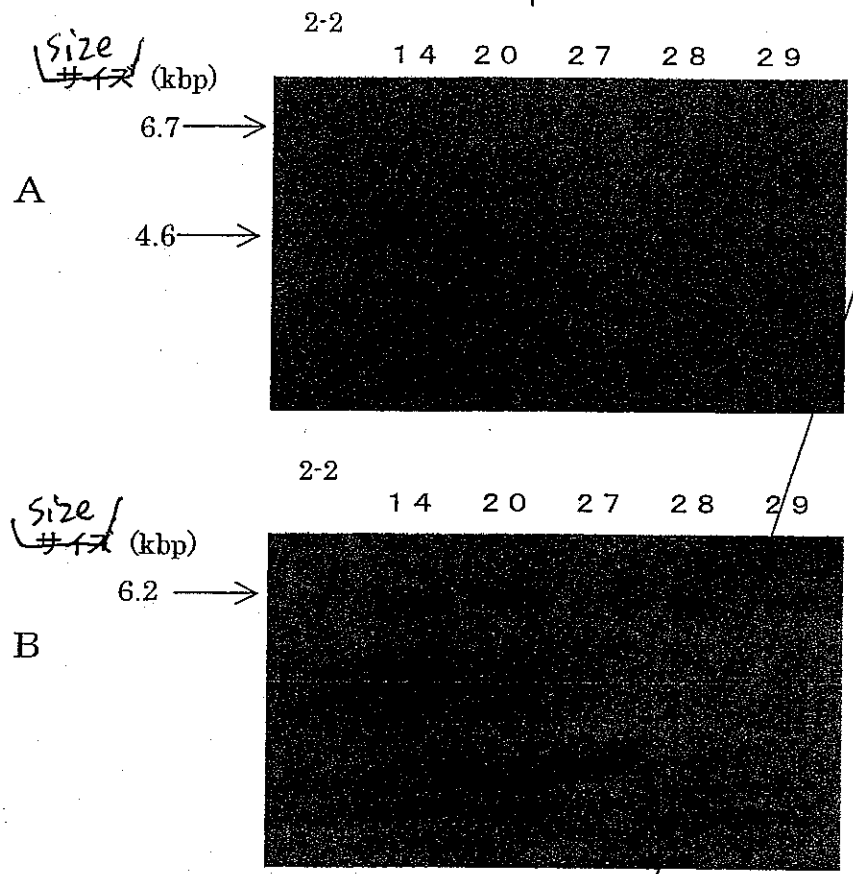

2-2
14 20 27 28 29
size
サイズ
(kbp)
6.7
4.6
A
2-2
14 20 27 28 29
size
サイズ
(kbp)
6.2
B

FIG. 21
図21

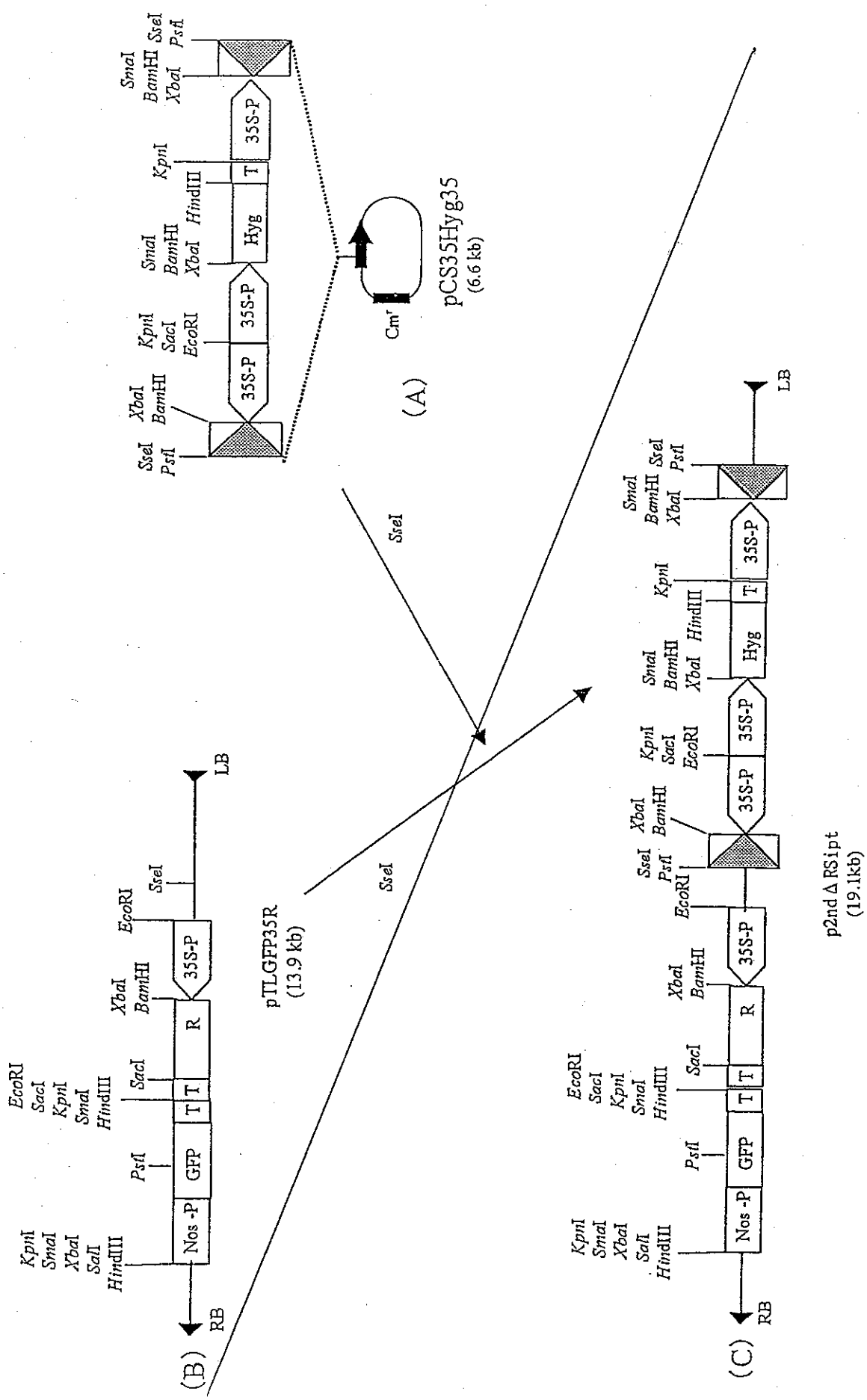

(A)
pCS35Hyg35
(6.6 kb)
Cmr
SmaI BamHI XbaI SstI PstI
35S-P
T
KpnI HindIII
Hyg
SmaI BamHI XbaI
KpnI SacI EcoRI
XbaI BamHI
SstI PstI
(B)
pTLGFP35R
(13.9 kb)
LB
RB
EcoRI SacI KpnI SmaI HindIII
PstI
GFP
T
SacI
R
XbaI BamHI
EcoRI
SstI
Nos -P
KpnI SmaI XbaI SalI HindIII
(C)
p2ndΔRSipt
(19.1kb)

Fig.
图22

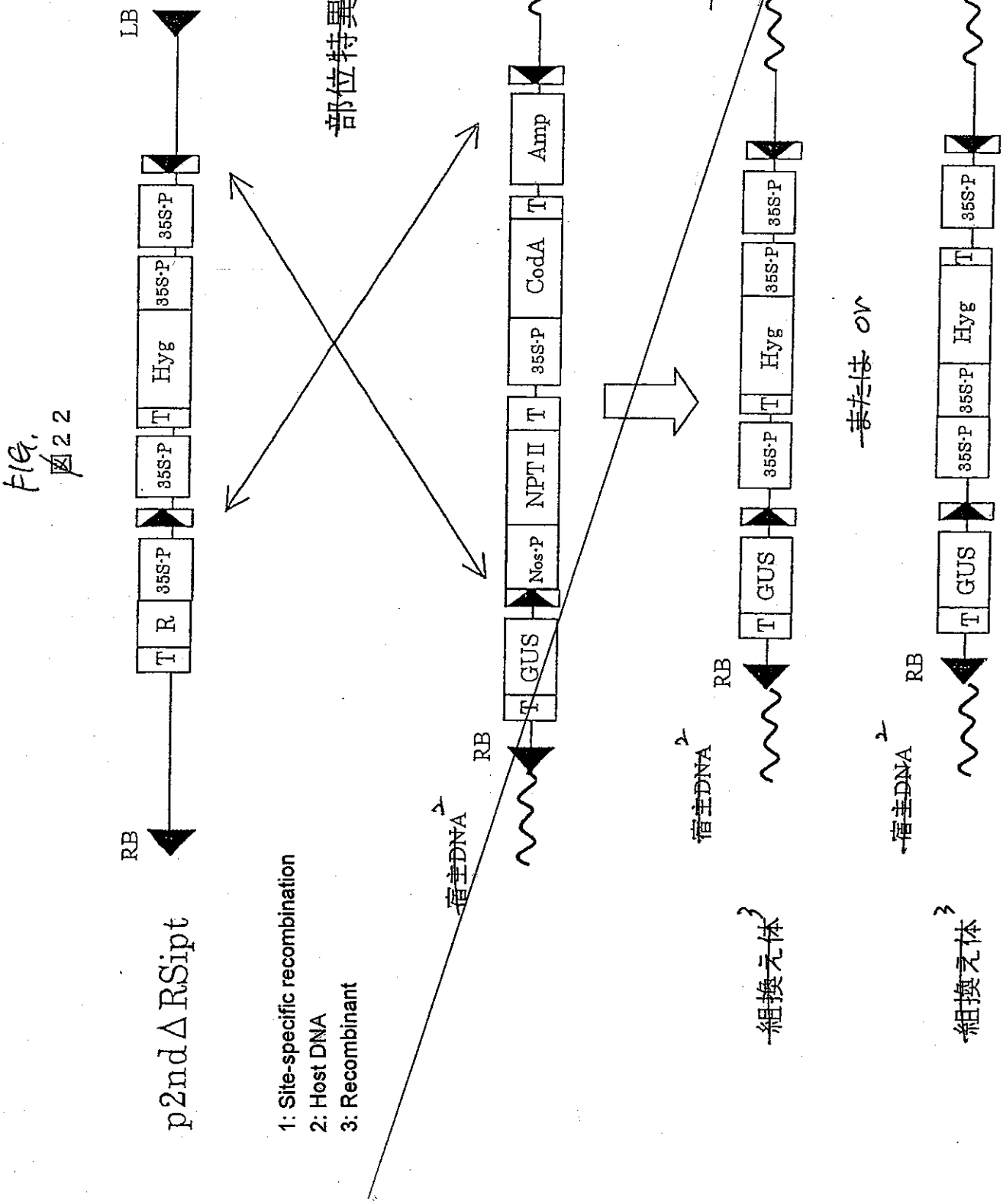

LB
T
R
35S-P
35S-P
T
Hyg
35S-P
35S-P
RB
p2ndΔRSipt
部位特異的組換え
1: Site-specific recombination
2: Host DNA
3: Recombinant
宿主DNA
T
GUS
Nos-P
NPT II
T
35S-P
CodA
T
Amp
RB
宿主DNA
組換え体
宿主DNA
T
GUS
35S-P
T
Hyg
35S-P
35S-P
RB
宿主DNA
組換え体
宿主DNA
T
GUS
35S-P
35S-P
Hyg
T
35S-P
RB
宿主DNA
組換え体

Fig. 23

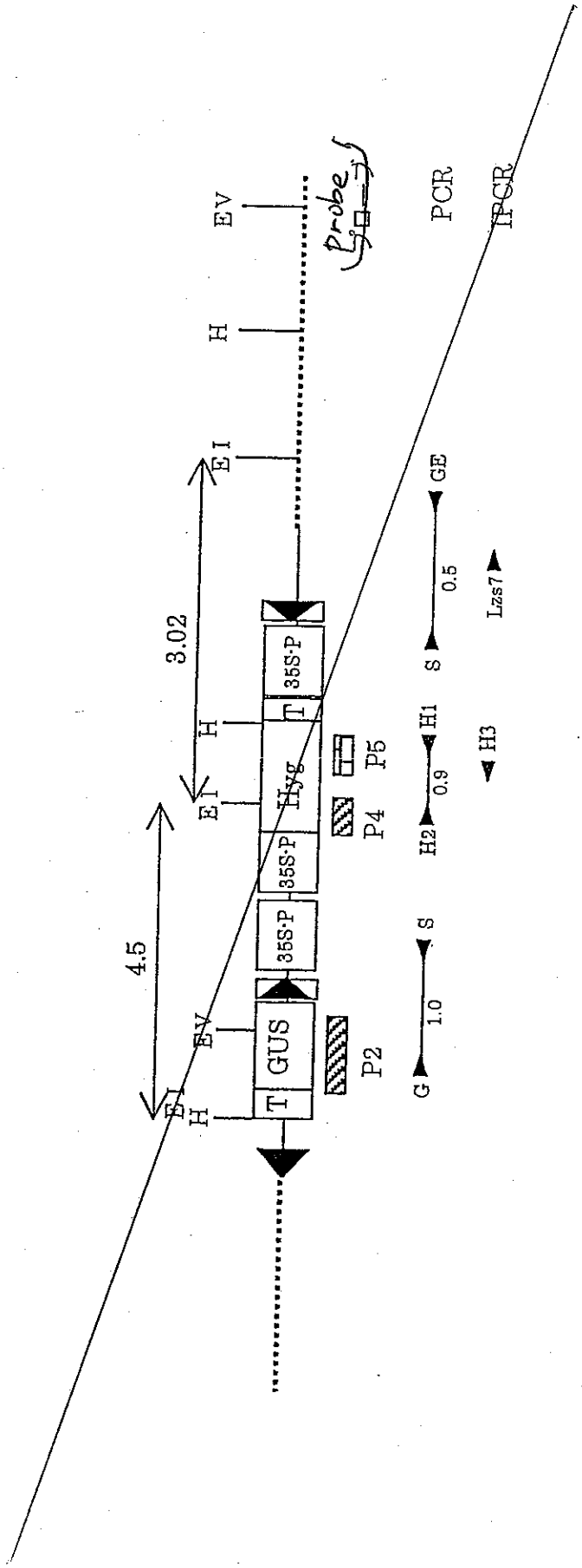

EV
H
E I
3.02
H
E I
4.5
EV
E I
H
T
GUS
35S·P
35S·P
35S·P
Hyg
T
35S·P
P2
P4
P5
PCR
IPCR
GE
0.5
S
H1
0.9
H2
H3
Lzs7
S
1.0
G
Probe

FIG.
図24

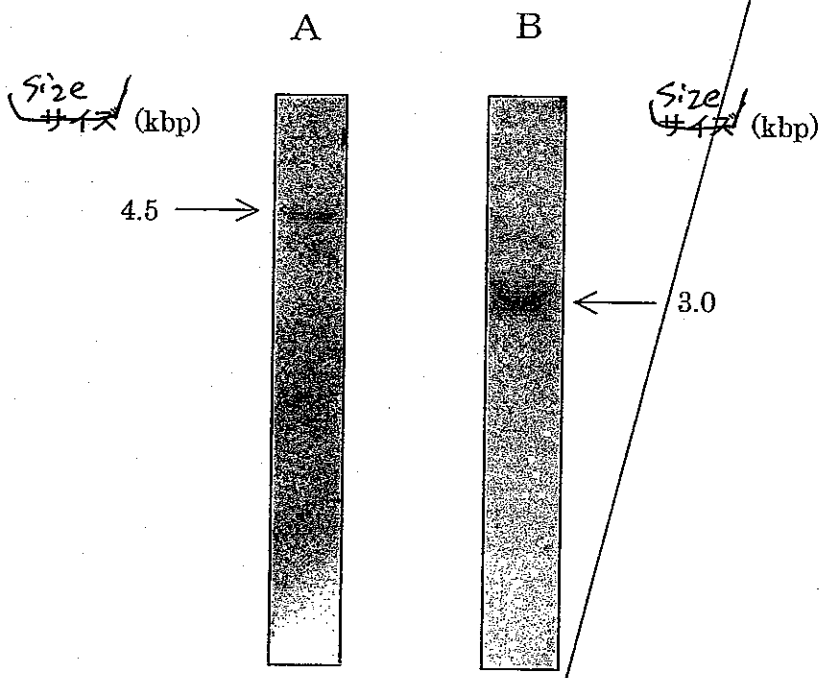


FIG. 図25

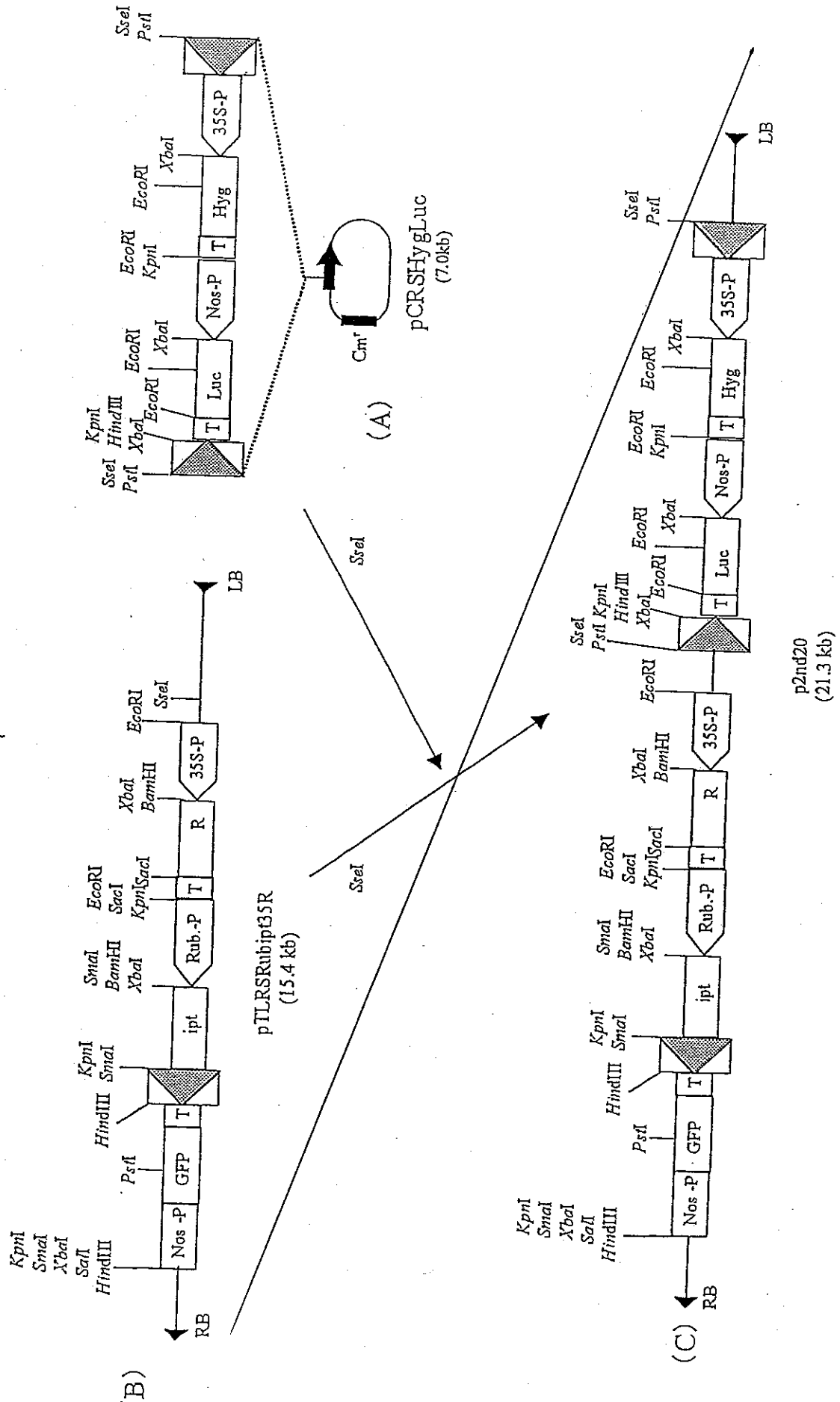

SseI
PstI
35S-P
XbaI
Hyg
EcoRI
KpnI
Nos-P
T
EcoRI
XbaI
Luc
T
KpnI
HindIII
EcoRI
XbaI
SseI
PstI
Cmr
pCRSHygLuc
(7.0kb)
(A)
LB
SseI
EcoRI
SseI
35S-P
XbaI
BamHI
R
EcoRI
SacI
KpnISacI
T
Rub.-P
SmaI
BamHI
XbaI
ipt
KpnI
SmaI
T
HindIII
PstI
GFP
Nos -P
KpnI
SmaI
XbaI
SalI
HindIII
RB
pTLRSRubipt35R
(15.4 kb)
(B)
SseI
SseI
PstI
35S-P
XbaI
Hyg
EcoRI
KpnI
Nos-P
T
EcoRI
XbaI
Luc
T
SseI
PstI KpnI
HindIII
XbaI
EcoRI
EcoRI
35S-P
XbaI
BamHI
R
EcoRI
SacI
KpnISacI
T
Rub.-P
SmaI
BamHI
XbaI
ipt
KpnI
SmaI
T
HindIII
PstI
GFP
Nos -P
KpnI
SmaI
XbaI
SalI
HindIII
RB
LB
p2nd20
(21.3 kb)
(C)

FIG.
図26

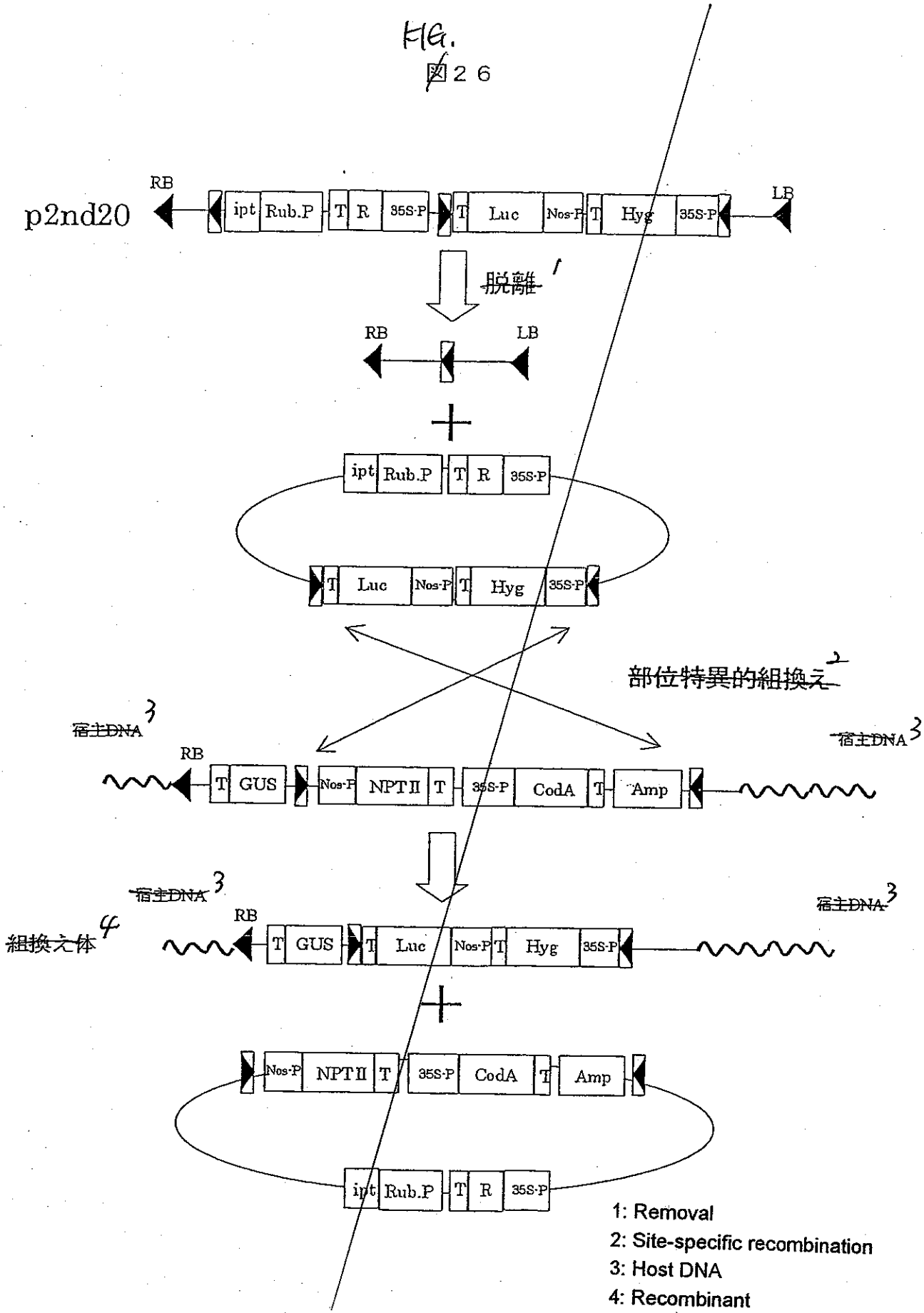

p2nd20
RB
ipt
Rub.P
T
R
35S-P
Luc
Nos-P
Hyg
LB
脱離
部位特異的組換え
宿主DNA
GUS
NPTII
CodA
Amp
組換え体
1: Removal
2: Site-specific recombination
3: Host DNA
4: Recombinant

FIG. cont'd.
図27（続き）

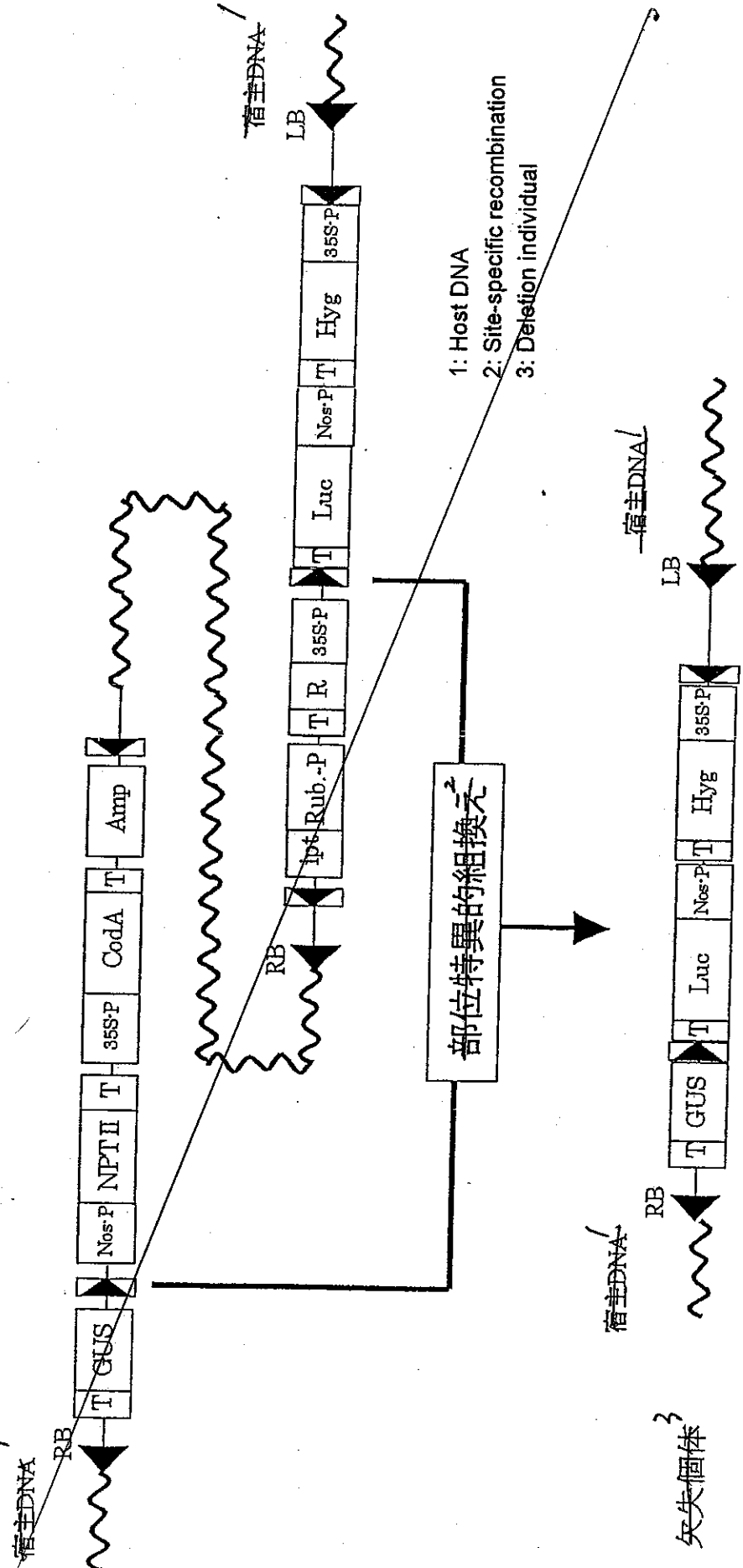


Fig. 図28

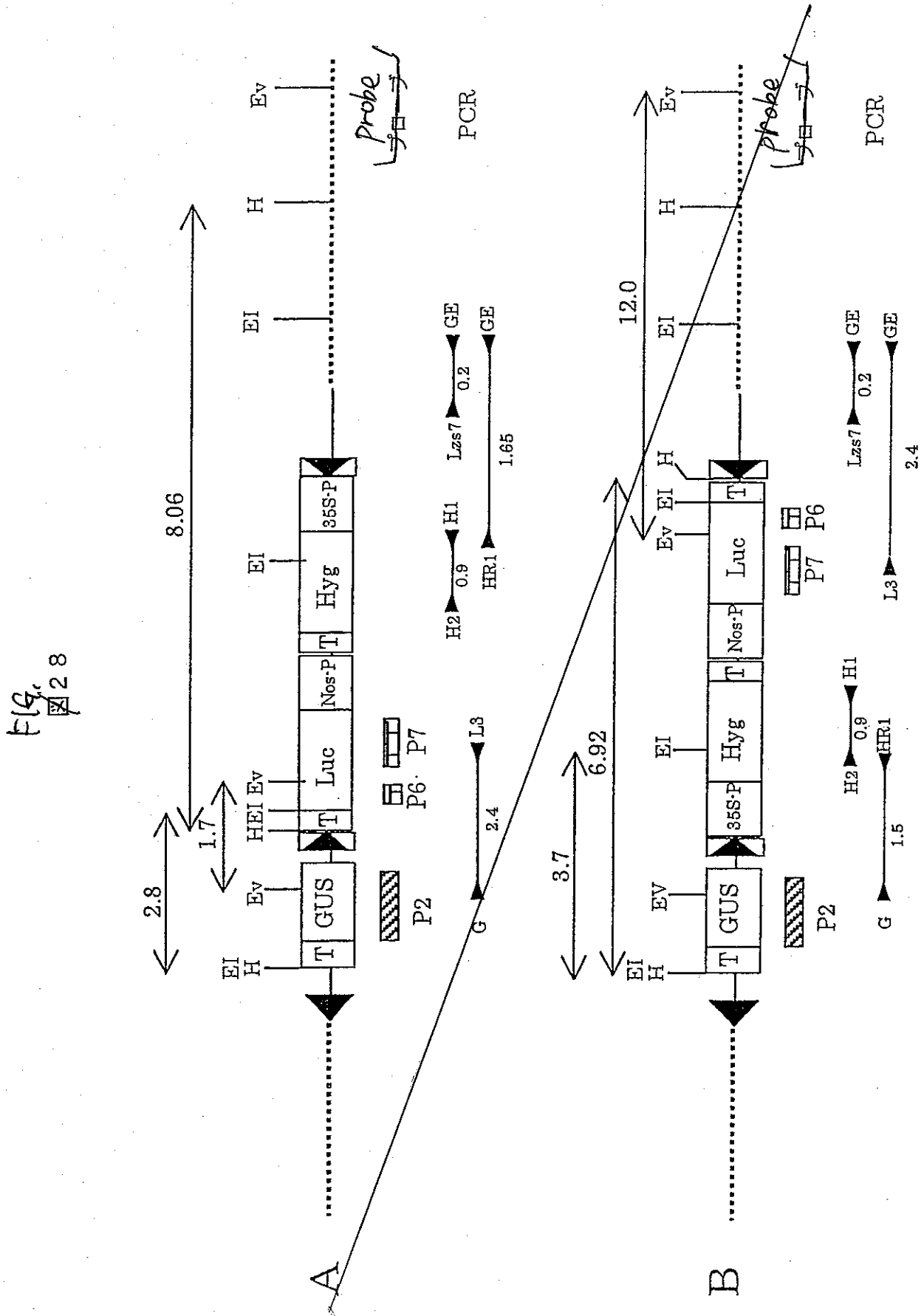

A
B
Probe
PCR
8.06
12.0
6.92
3.7
2.8
1.7
Ev
H
EI
HEI
EV
GUS
Luc
Hyg
Nos-P
35S-P
T
P2
P6
P7
L3
G
GE
Lzs7
H1
H2
HR1
0.2
0.9
1.65
2.4
1.5

FIG.
図29

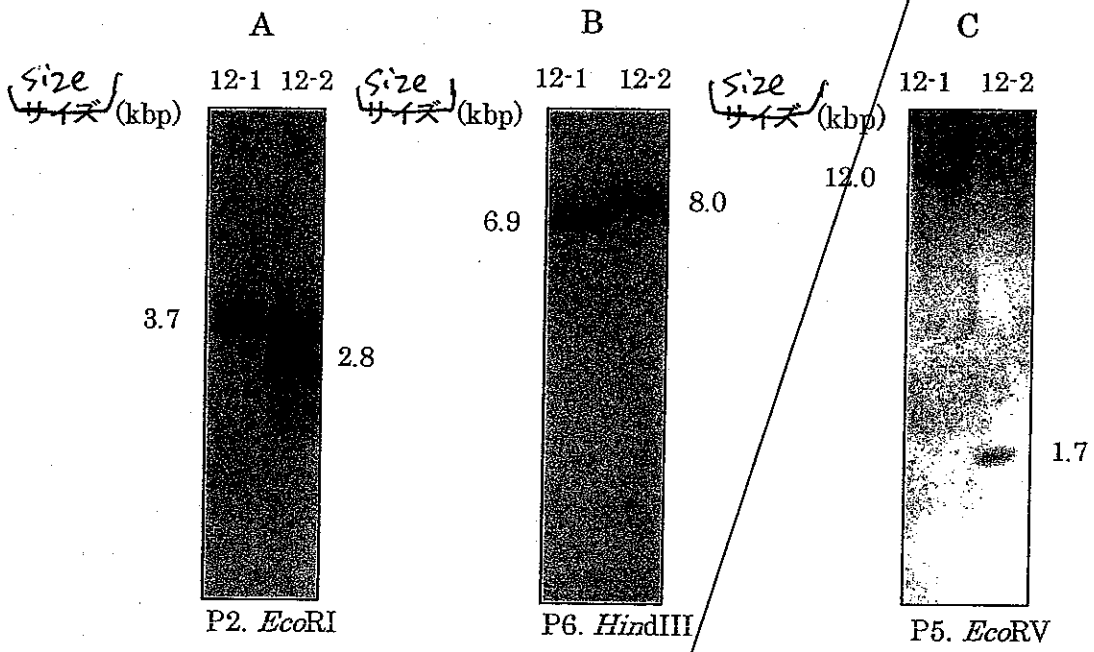

A
B
C
Size サイズ (kbp)
12-1 12-2
3.7
2.8
6.9
8.0
12.0
1.7
P2. EcoRI
P6. HindIII
P5. EcoRV

FIG.
図30

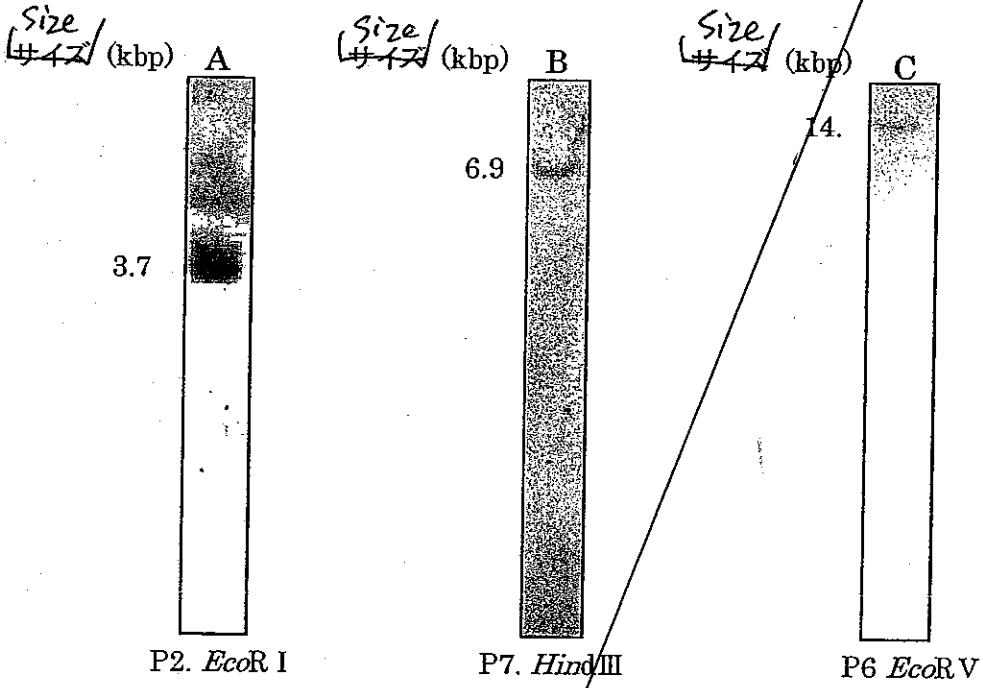

Size
サイズ (kbp)
A
3.7
P2. EcoR I
Size
サイズ (kbp)
B
6.9
P7. HindIII
Size
サイズ (kbp)
C
14.
P6 EcoRV

FIG. 図31

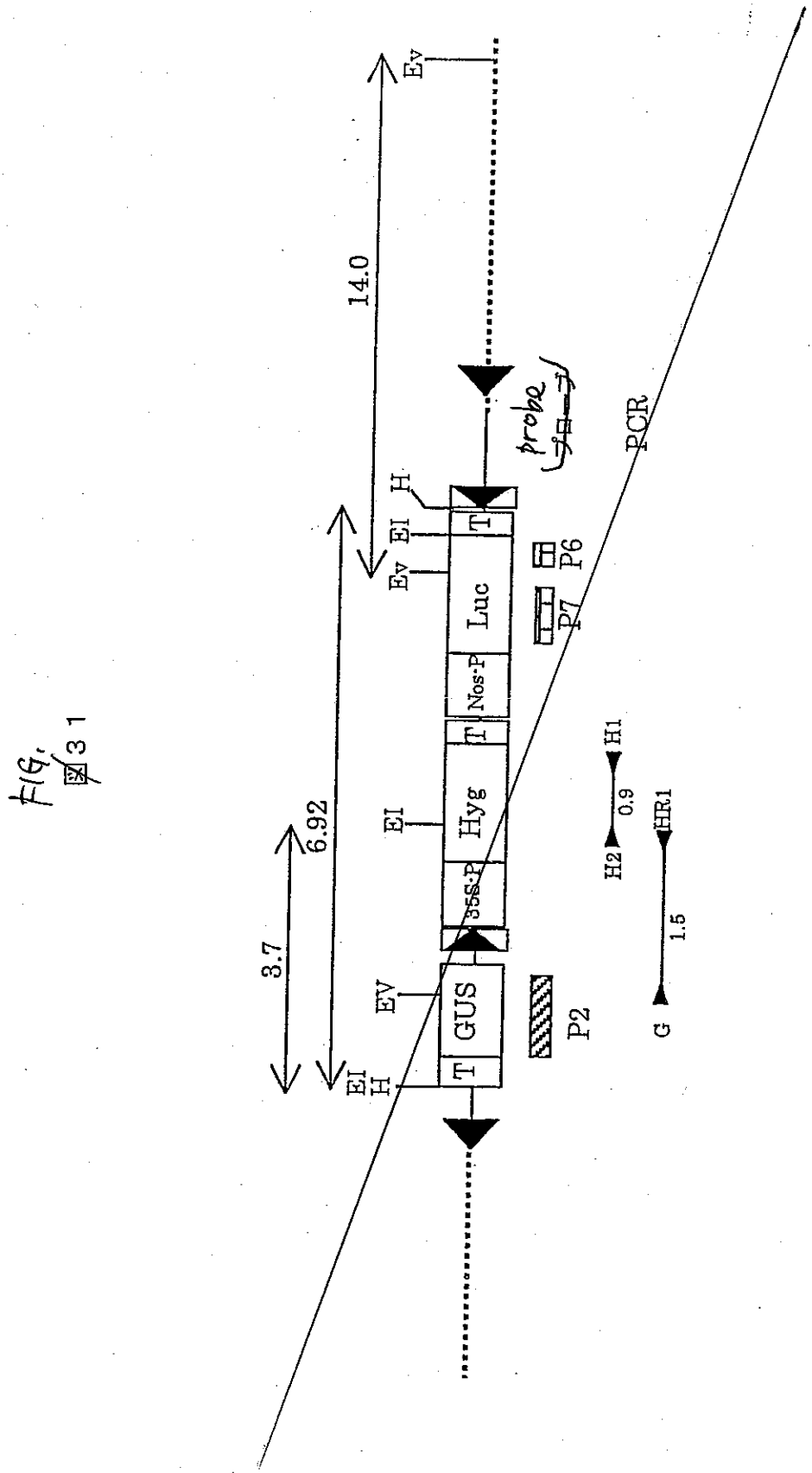
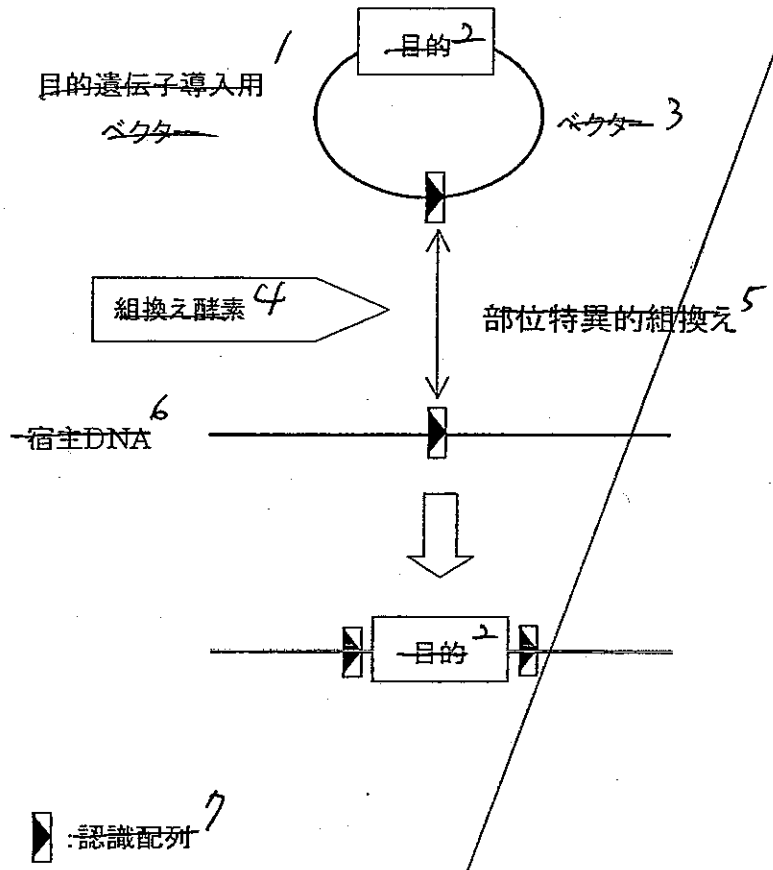

Ev
14.0
probe
PCR
H
EI
T
Ev
Luc
Nos-P
T
Hyg
35S-P
6.92
EI
3.7
EV
GUS
T
EI
H
P6
P7
P2
H1
0.9
H2
HR1
1.5
G

Fig. 6
図３２



1: Vector for introducing desired gene
2: Desired
3: Vector
4: Recombinase
5: Site-specific recombination
6: Host DNA
7: Recognition sequence

FIG. 1

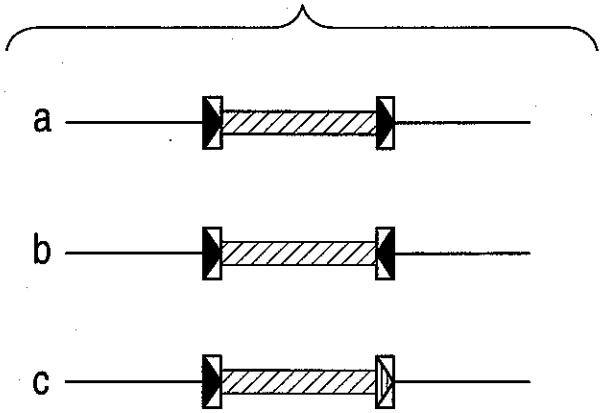

a
b
c
: WILD TYPE RECOGNITION SEQUENCE
: MUTATION TYPE RECOGNITION SEQUENCE
: INTRODUCTION CASSETTE

FIG. 2

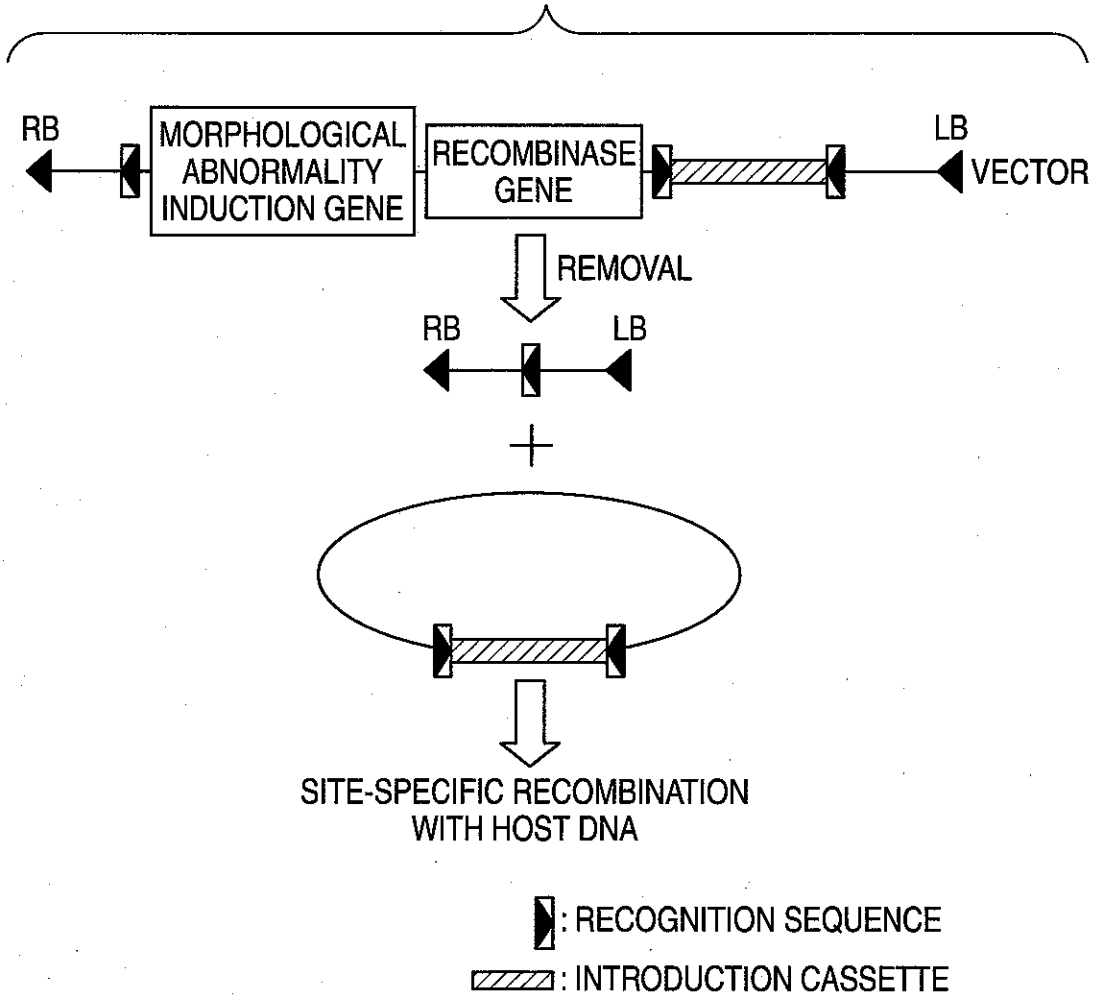

RB
MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE
LB
VECTOR
REMOVAL
RB
LB
SITE-SPECIFIC RECOMBINATION WITH HOST DNA
: RECOGNITION SEQUENCE
: INTRODUCTION CASSETTE

FIG. 3

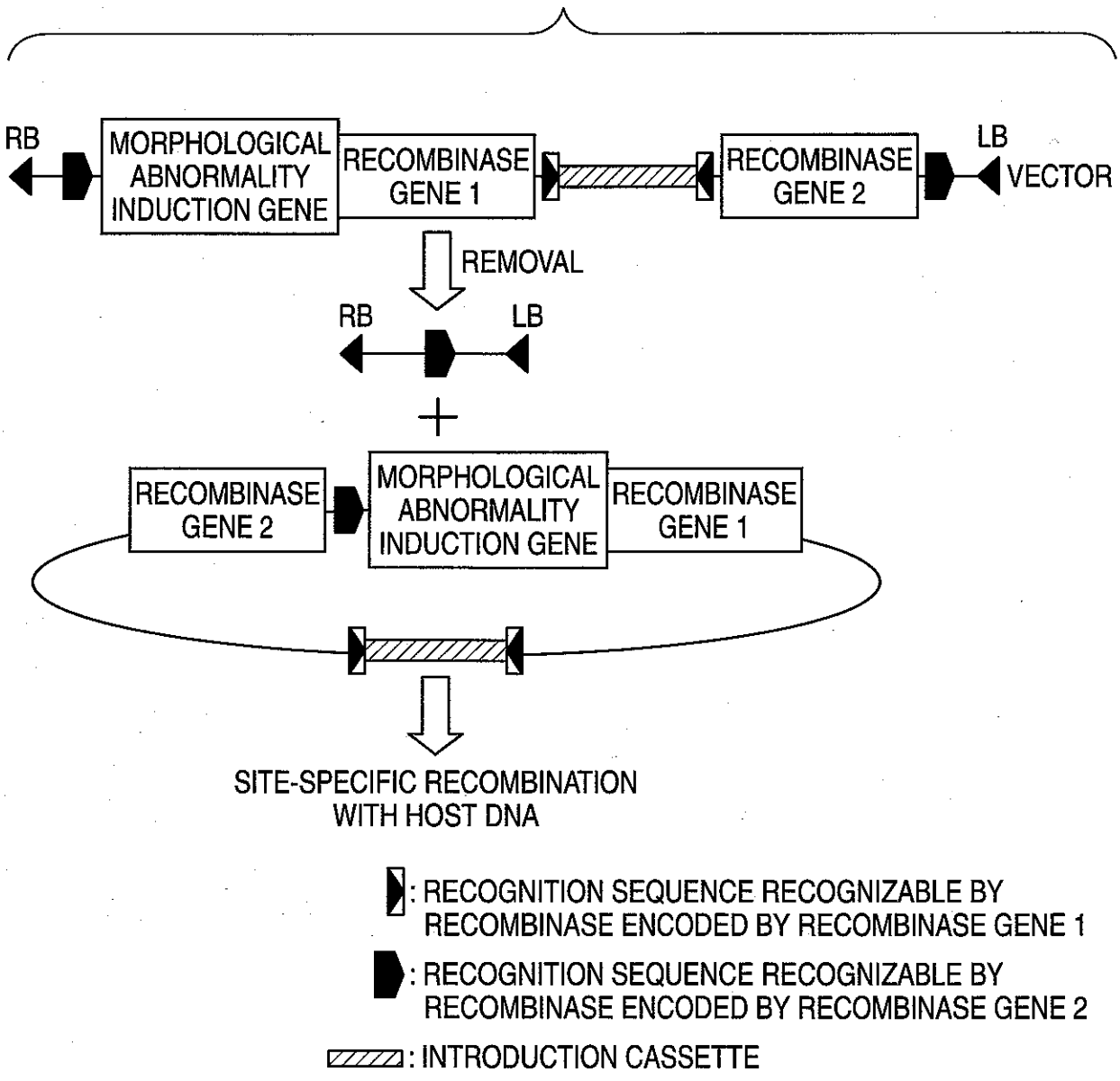

RB
MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE 1
RECOMBINASE GENE 2
LB
VECTOR
REMOVAL
RB
LB
RECOMBINASE GENE 2
MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE 1
SITE-SPECIFIC RECOMBINATION WITH HOST DNA
: RECOGNITION SEQUENCE RECOGNIZABLE BY RECOMBINASE ENCODED BY RECOMBINASE GENE 1
: RECOGNITION SEQUENCE RECOGNIZABLE BY RECOMBINASE ENCODED BY RECOMBINASE GENE 2
: INTRODUCTION CASSETTE

FIG. 4

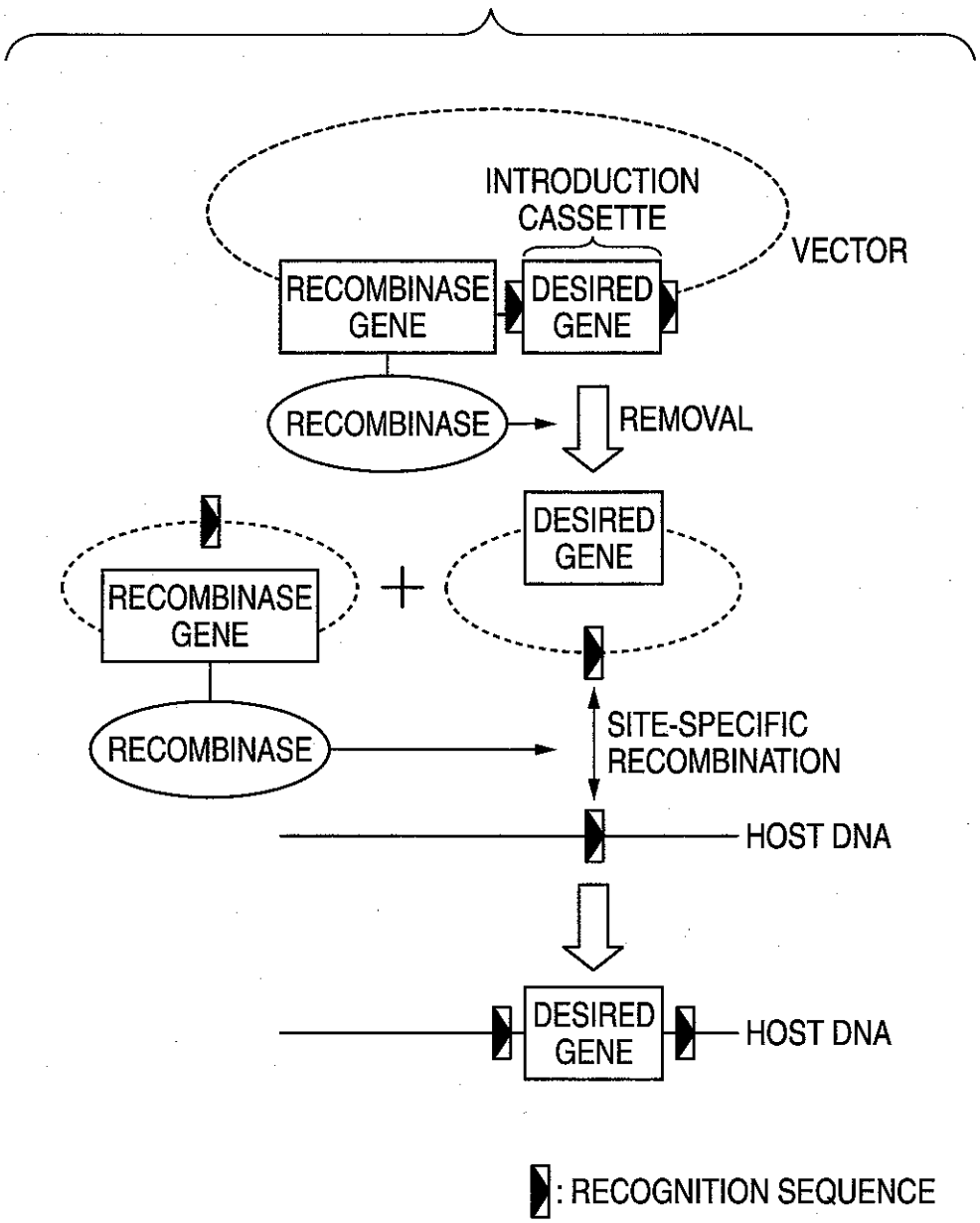

INTRODUCTION CASSETTE
VECTOR
RECOMBINASE GENE
DESIRED GENE
RECOMBINASE
REMOVAL
DESIRED GENE
RECOMBINASE GENE
RECOMBINASE
SITE-SPECIFIC RECOMBINATION
HOST DNA
DESIRED GENE
HOST DNA
: RECOGNITION SEQUENCE

FIG. 5

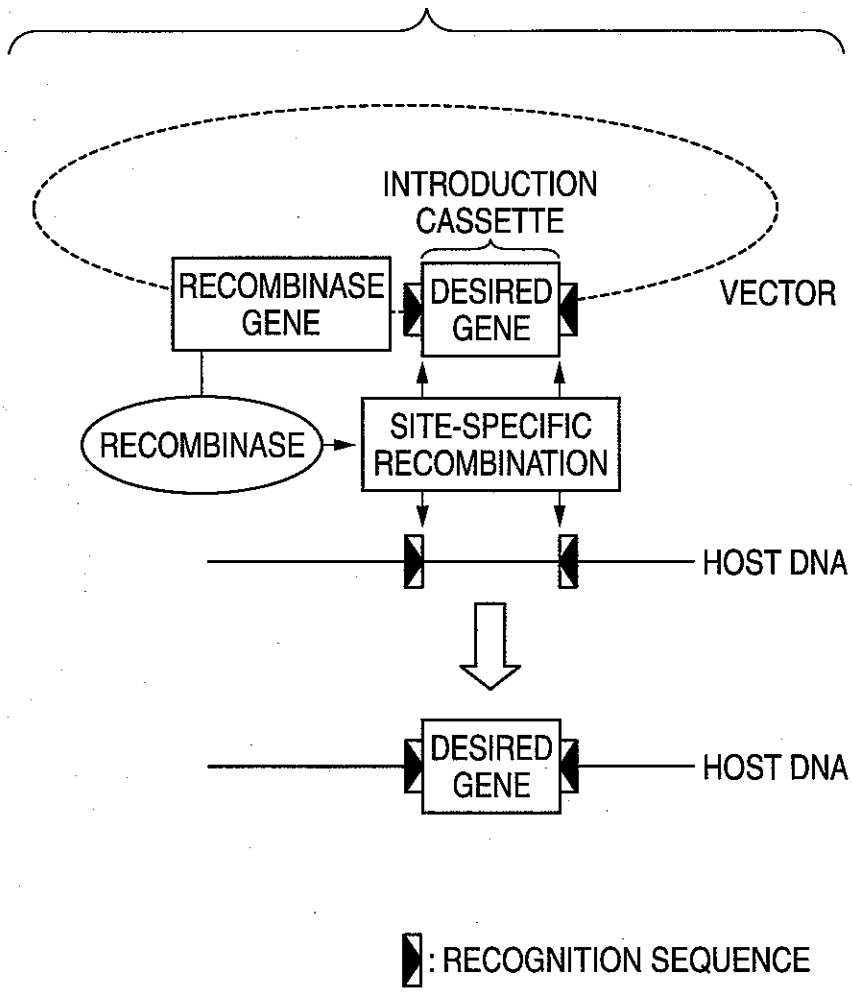

INTRODUCTION CASSETTE
RECOMBINASE GENE
DESIRED GENE
VECTOR
RECOMBINASE
SITE-SPECIFIC RECOMBINATION
HOST DNA
DESIRED GENE
HOST DNA
: RECOGNITION SEQUENCE

FIG. 6

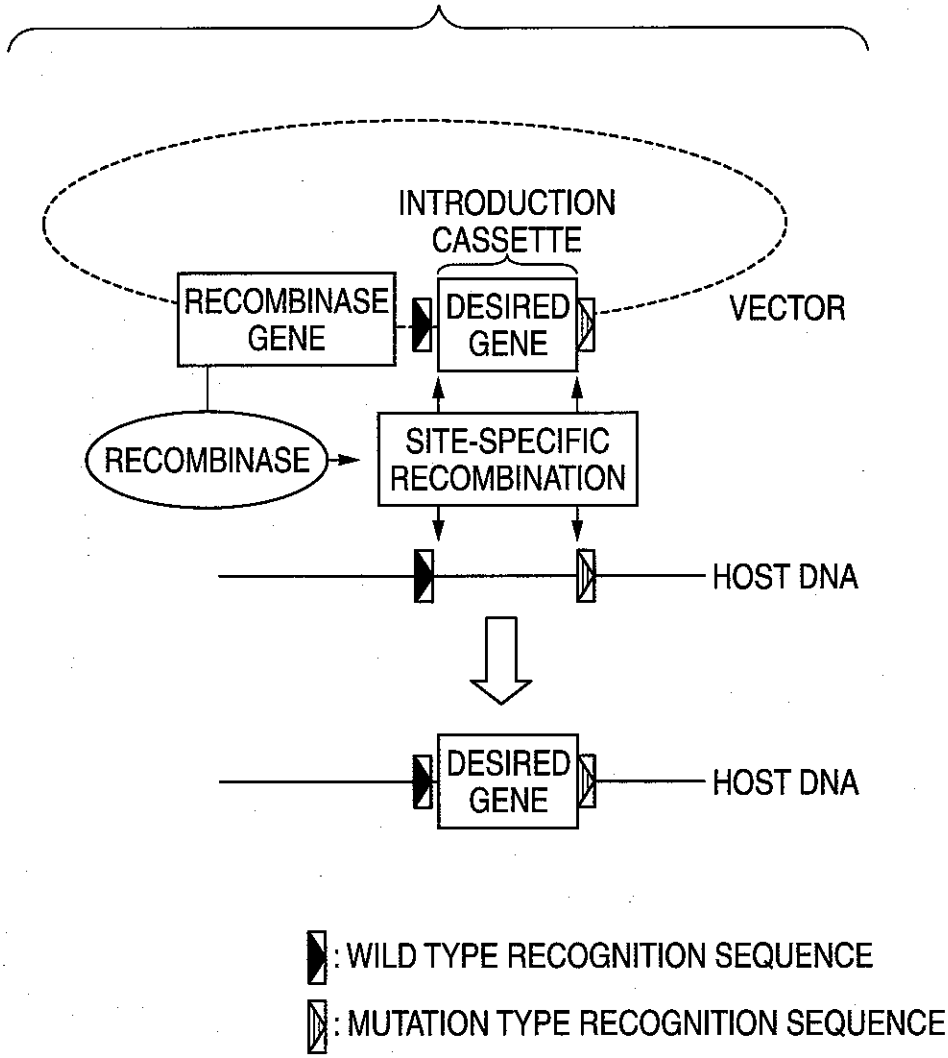

INTRODUCTION CASSETTE
RECOMBINASE GENE
DESIRED GENE
VECTOR
RECOMBINASE
SITE-SPECIFIC RECOMBINATION
HOST DNA
DESIRED GENE
HOST DNA
: WILD TYPE RECOGNITION SEQUENCE
: MUTATION TYPE RECOGNITION SEQUENCE

FIG. 7

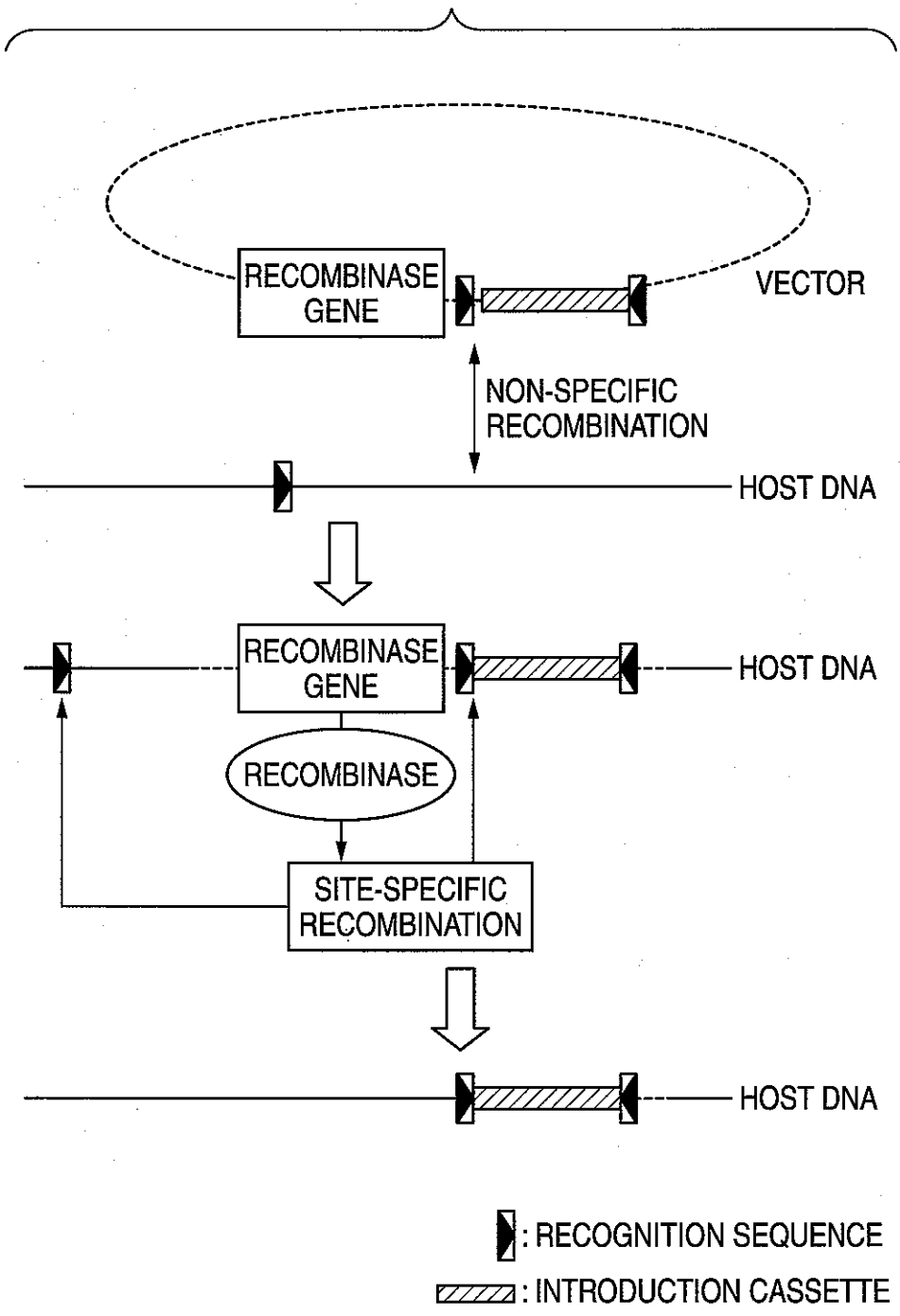

RECOMBINASE GENE
VECTOR
NON-SPECIFIC RECOMBINATION
HOST DNA
RECOMBINASE GENE
HOST DNA
RECOMBINASE
SITE-SPECIFIC RECOMBINATION
HOST DNA
: RECOGNITION SEQUENCE
: INTRODUCTION CASSETTE

FIG. 8

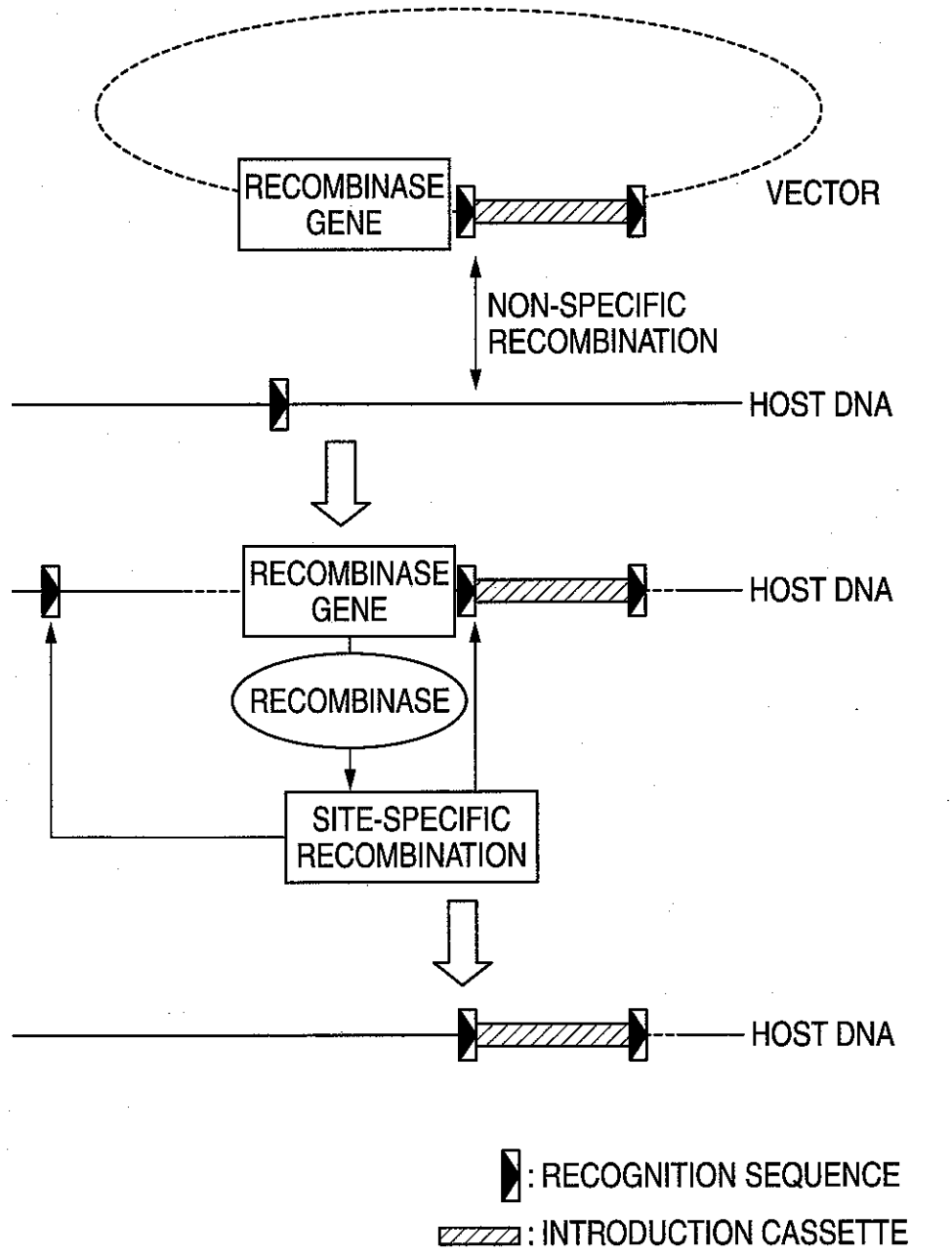

RECOMBINASE GENE
VECTOR
NON-SPECIFIC RECOMBINATION
HOST DNA
RECOMBINASE GENE
HOST DNA
RECOMBINASE
SITE-SPECIFIC RECOMBINATION
HOST DNA
: RECOGNITION SEQUENCE
: INTRODUCTION CASSETTE

FIG. 9

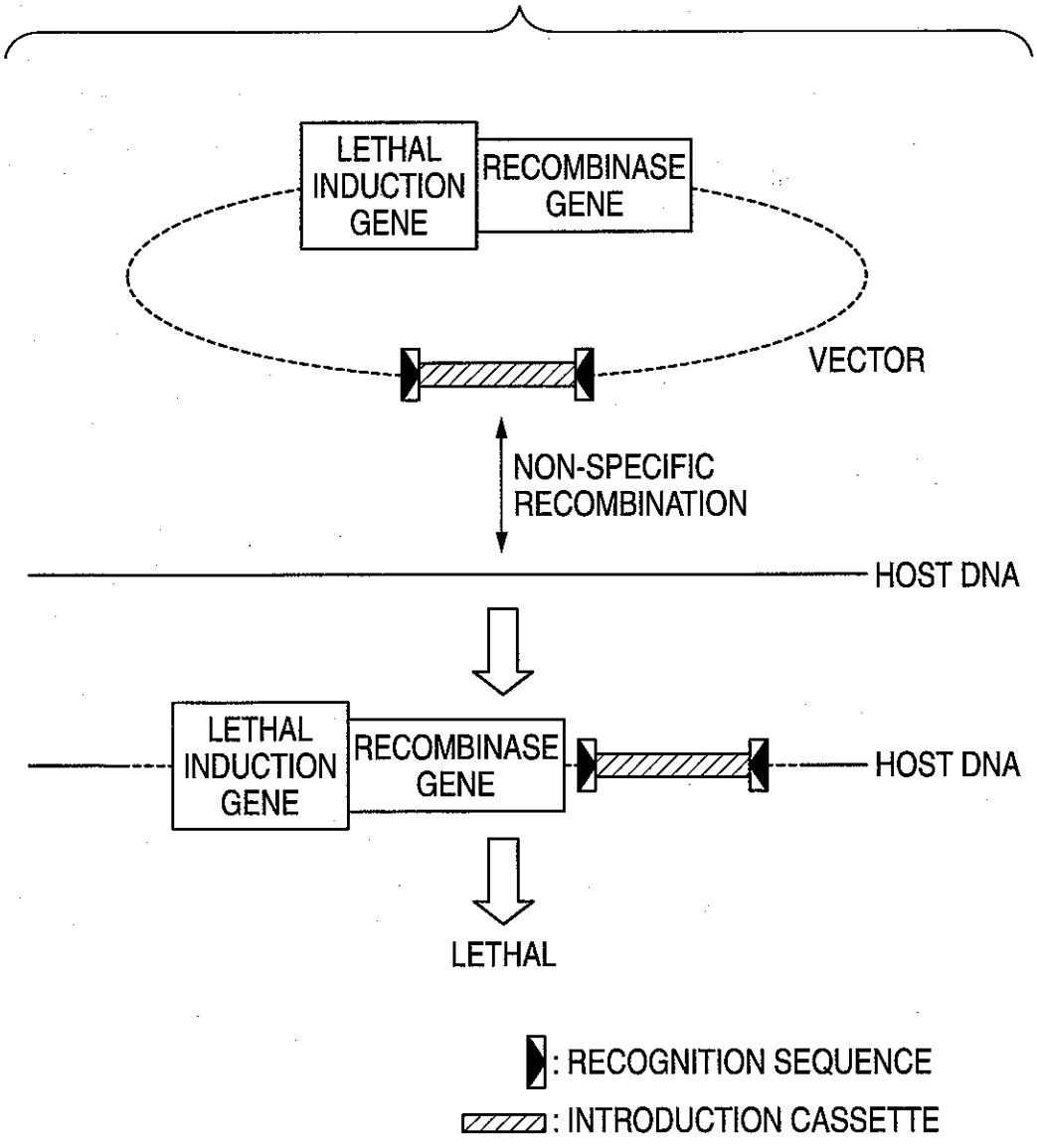

LETHAL INDUCTION GENE
RECOMBINASE GENE
VECTOR
NON-SPECIFIC RECOMBINATION
HOST DNA
LETHAL INDUCTION GENE
RECOMBINASE GENE
HOST DNA
LETHAL
: RECOGNITION SEQUENCE
: INTRODUCTION CASSETTE

FIG. 10

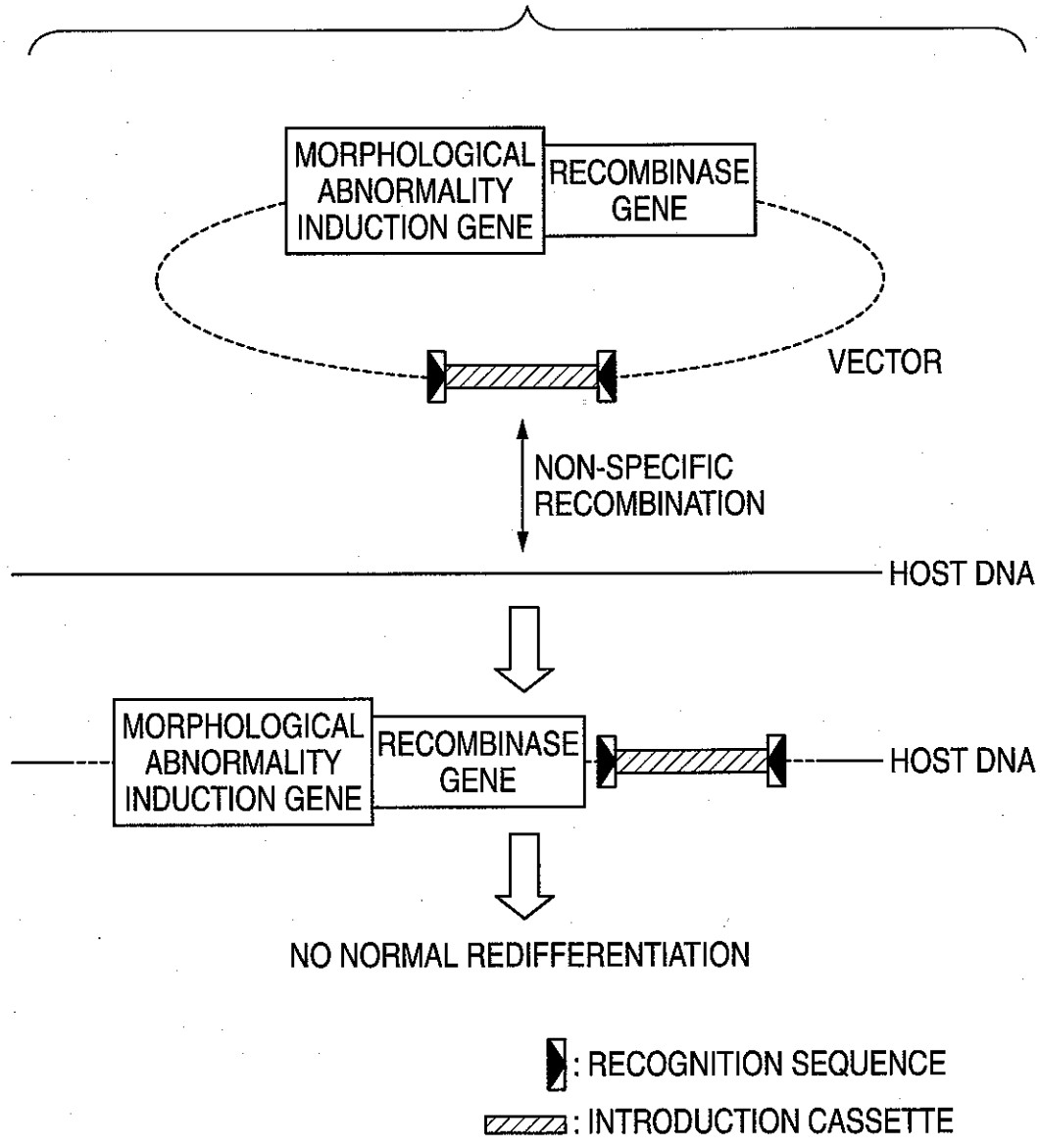

MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE
VECTOR
NON-SPECIFIC RECOMBINATION
HOST DNA
MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE
HOST DNA
NO NORMAL REDIFFERENTIATION
: RECOGNITION SEQUENCE
: INTRODUCTION CASSETTE

FIG. 11

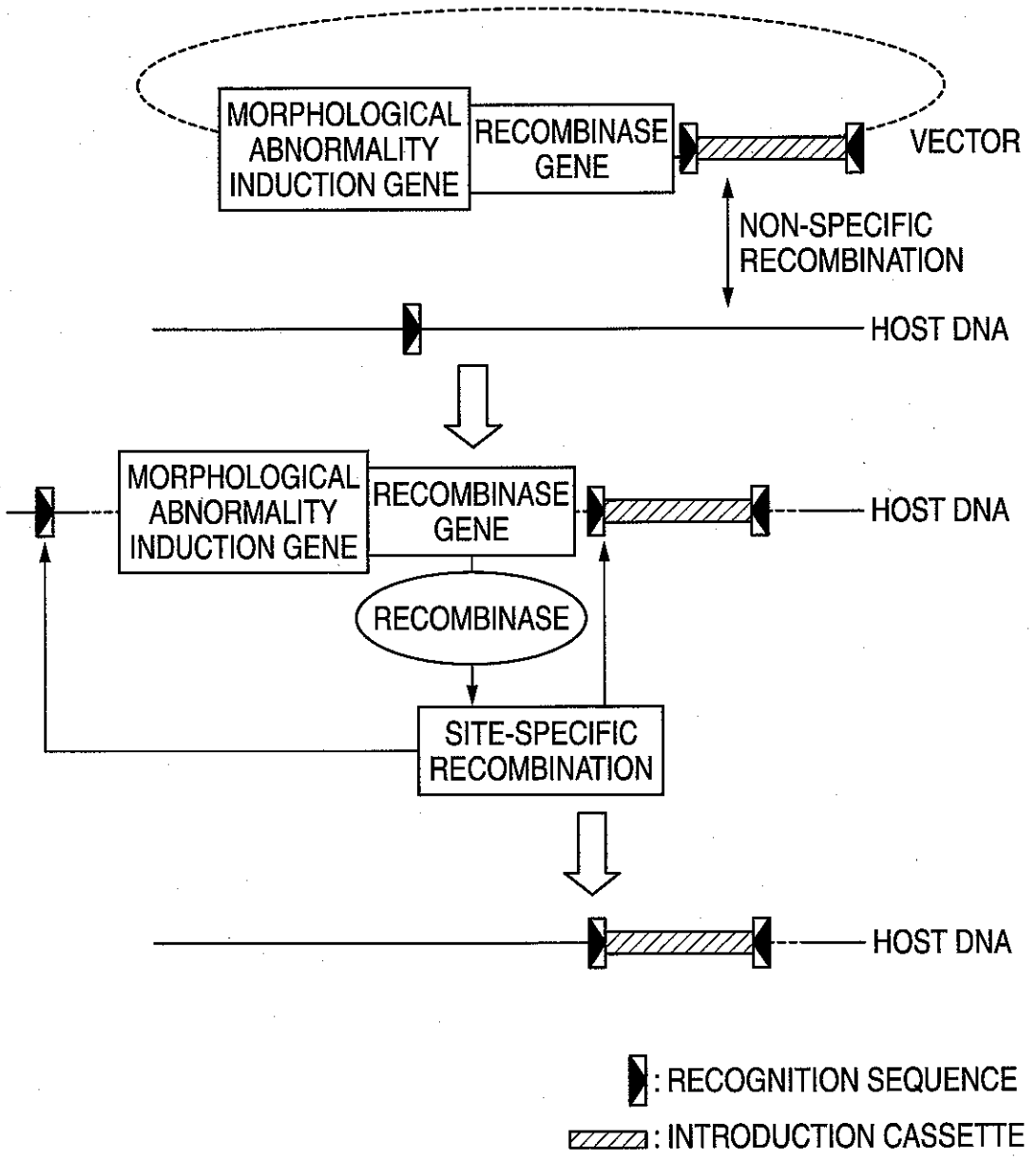

MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE
VECTOR
NON-SPECIFIC RECOMBINATION
HOST DNA
MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE
HOST DNA
RECOMBINASE
SITE-SPECIFIC RECOMBINATION
HOST DNA
: RECOGNITION SEQUENCE
: INTRODUCTION CASSETTE

FIG. 12

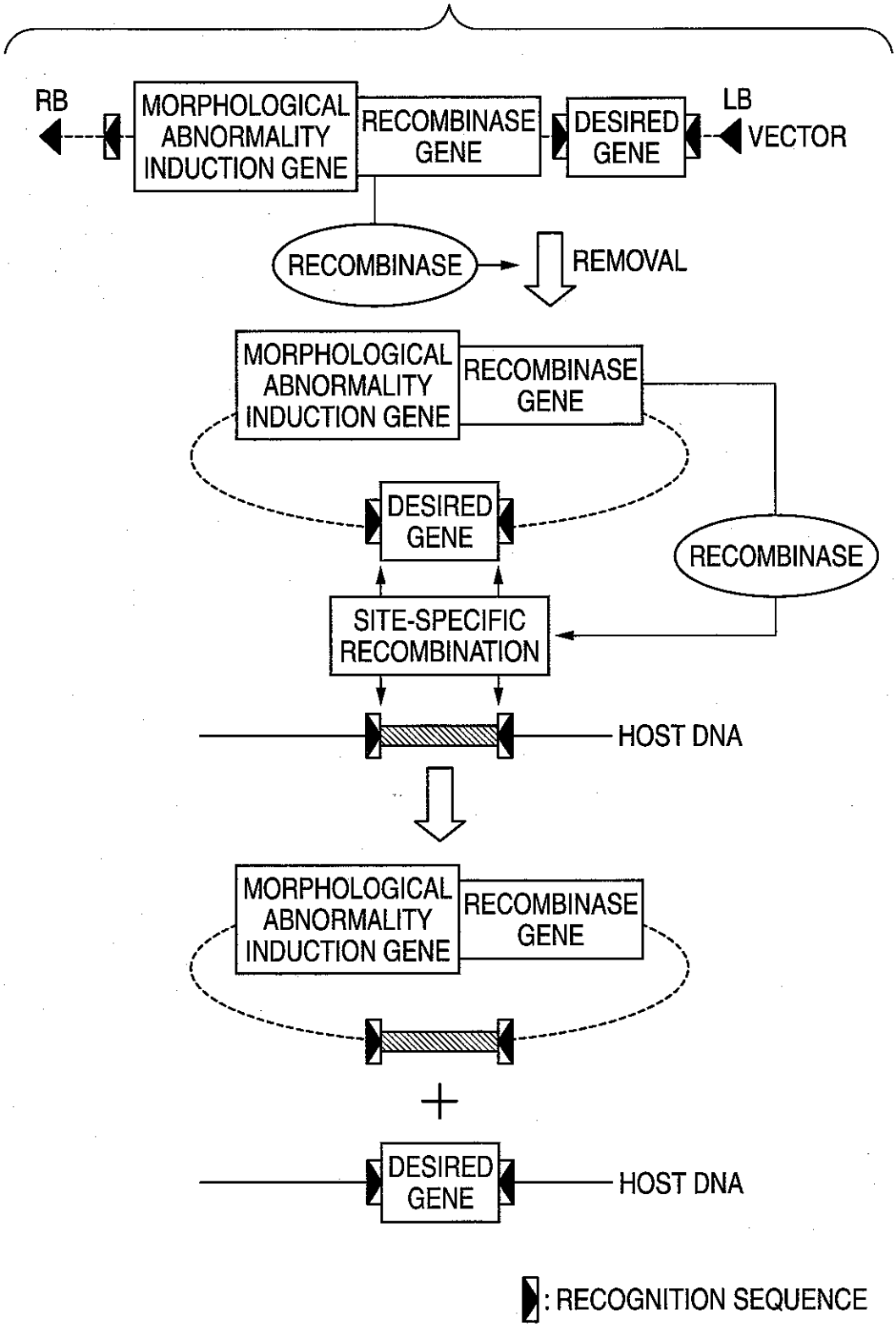

RB
MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE
DESIRED GENE
LB
VECTOR
RECOMBINASE
REMOVAL
MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE
DESIRED GENE
RECOMBINASE
SITE-SPECIFIC RECOMBINATION
HOST DNA
MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE
DESIRED GENE
HOST DNA
: RECOGNITION SEQUENCE

FIG. 13

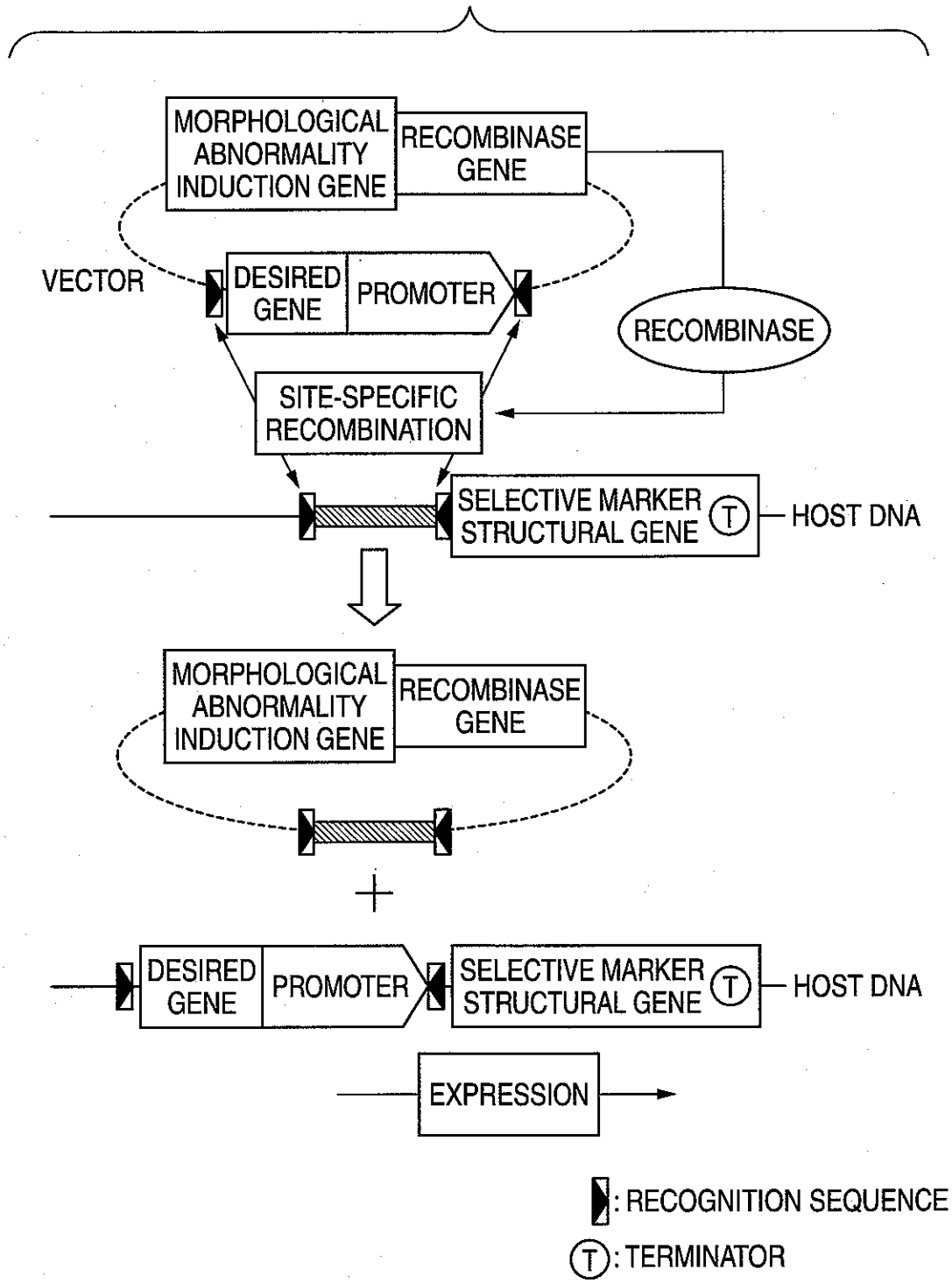

MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE
VECTOR
DESIRED GENE
PROMOTER
RECOMBINASE
SITE-SPECIFIC RECOMBINATION
SELECTIVE MARKER STRUCTURAL GENE
T
HOST DNA
MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE
DESIRED GENE
PROMOTER
SELECTIVE MARKER STRUCTURAL GENE
T
HOST DNA
EXPRESSION
: RECOGNITION SEQUENCE
T : TERMINATOR

FIG. 14

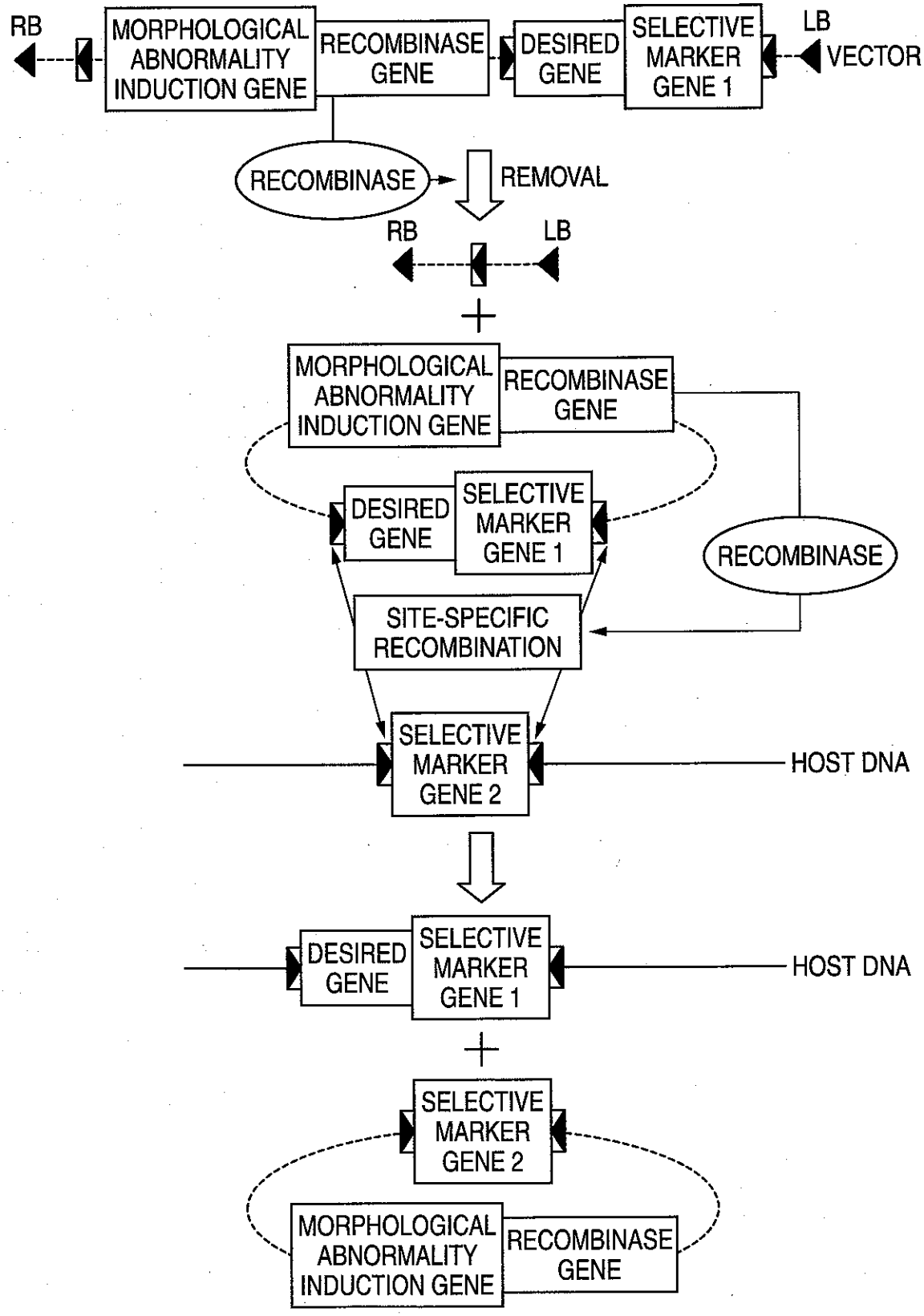

RB
MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE
DESIRED GENE
SELECTIVE MARKER GENE 1
LB
VECTOR
RECOMBINASE
REMOVAL
RB
LB
MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE
DESIRED GENE
SELECTIVE MARKER GENE 1
RECOMBINASE
SITE-SPECIFIC RECOMBINATION
SELECTIVE MARKER GENE 2
HOST DNA
DESIRED GENE
SELECTIVE MARKER GENE 1
HOST DNA
SELECTIVE MARKER GENE 2
MORPHOLOGICAL ABNORMALITY INDUCTION GENE
RECOMBINASE GENE

FIG. 15

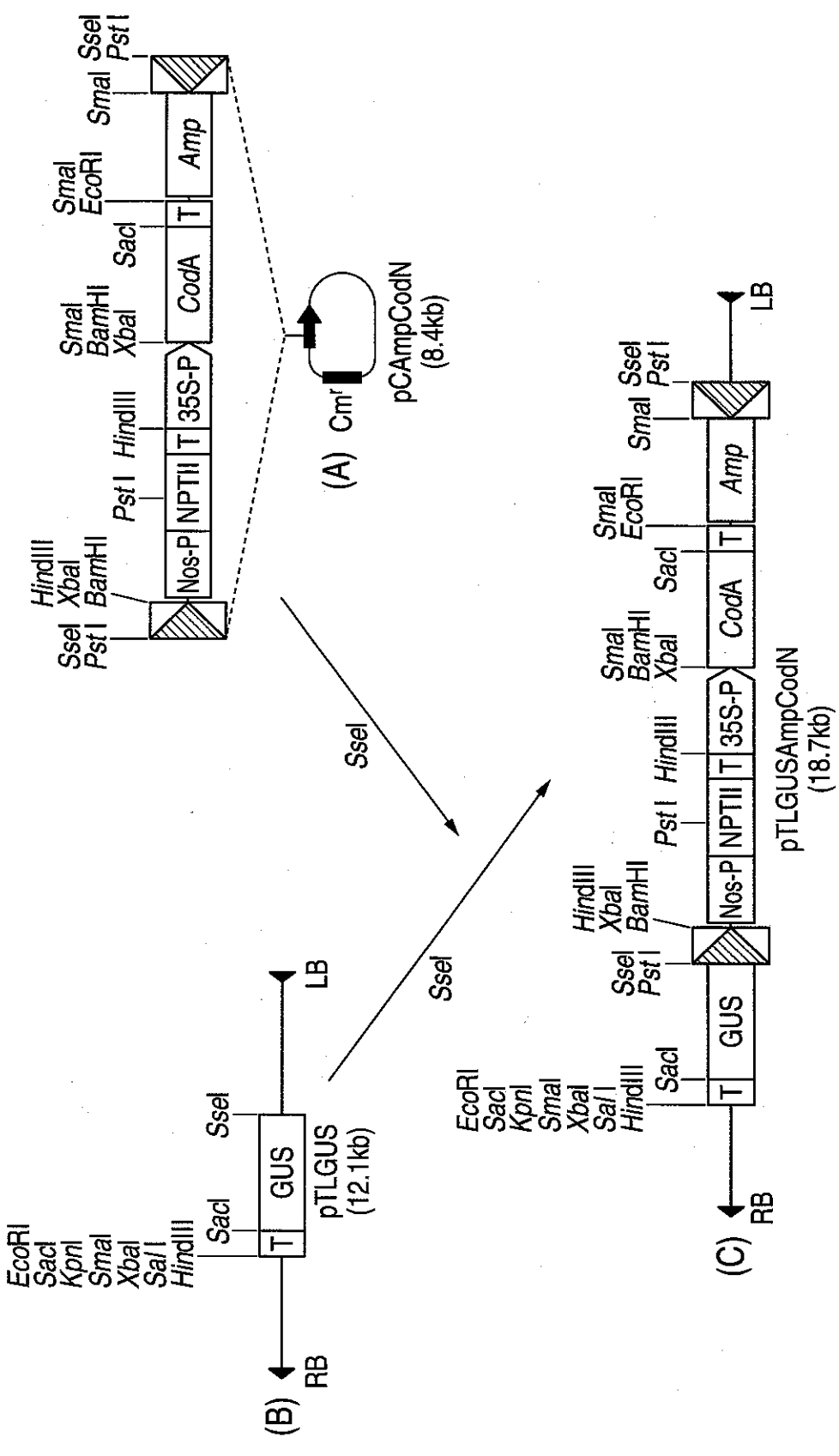

(A)
Cm'
pCAmpCodN
(8.4kb)
SseI
Pst I
SmaI
Amp
EcoRI
SacI
T
CodA
BamHI
XbaI
35S-P
HindIII
NPTII
Nos-P
(B)
pTLGUS
(12.1kb)
LB
RB
GUS
EcoRI
SacI
KpnI
SmaI
XbaI
SalI
HindIII
(C)
pTLGUSAmpCodN
(18.7kb)

FIG. 16

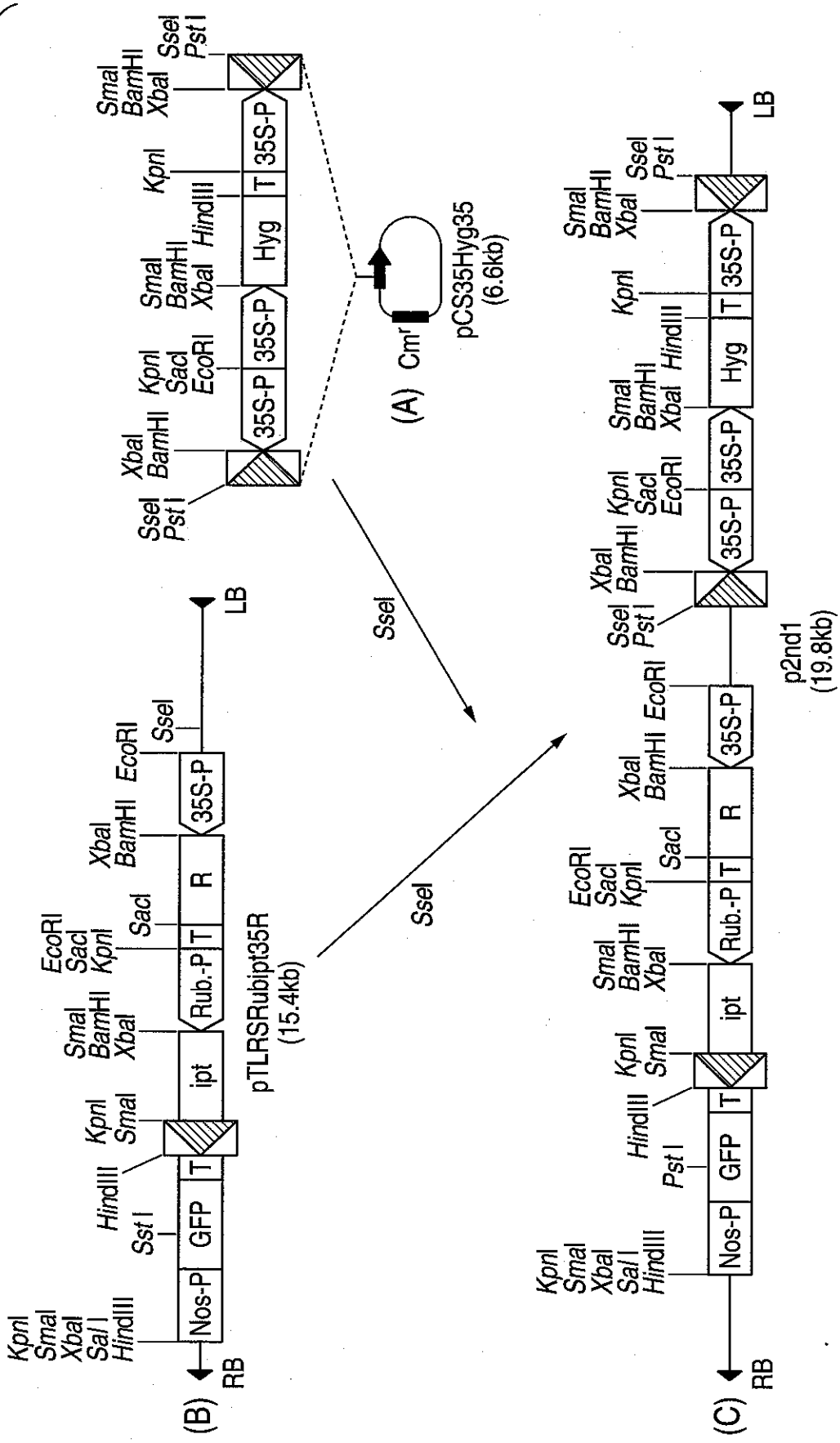

(A)
Cmr
pCS35Hyg35
(6.6kb)
SseI
(B)
pTLRSRubipt35R
(15.4kb)
SseI
(C)
p2nd1
(19.8kb)
LB
RB
35S-P
Hyg
T
ipt
Rub.-P
R
GFP
Nos-P
KpnI
SmaI
XbaI
SalI
HindIII
SstI
EcoRI
SacI
BamHI
PstI

FIG. 17

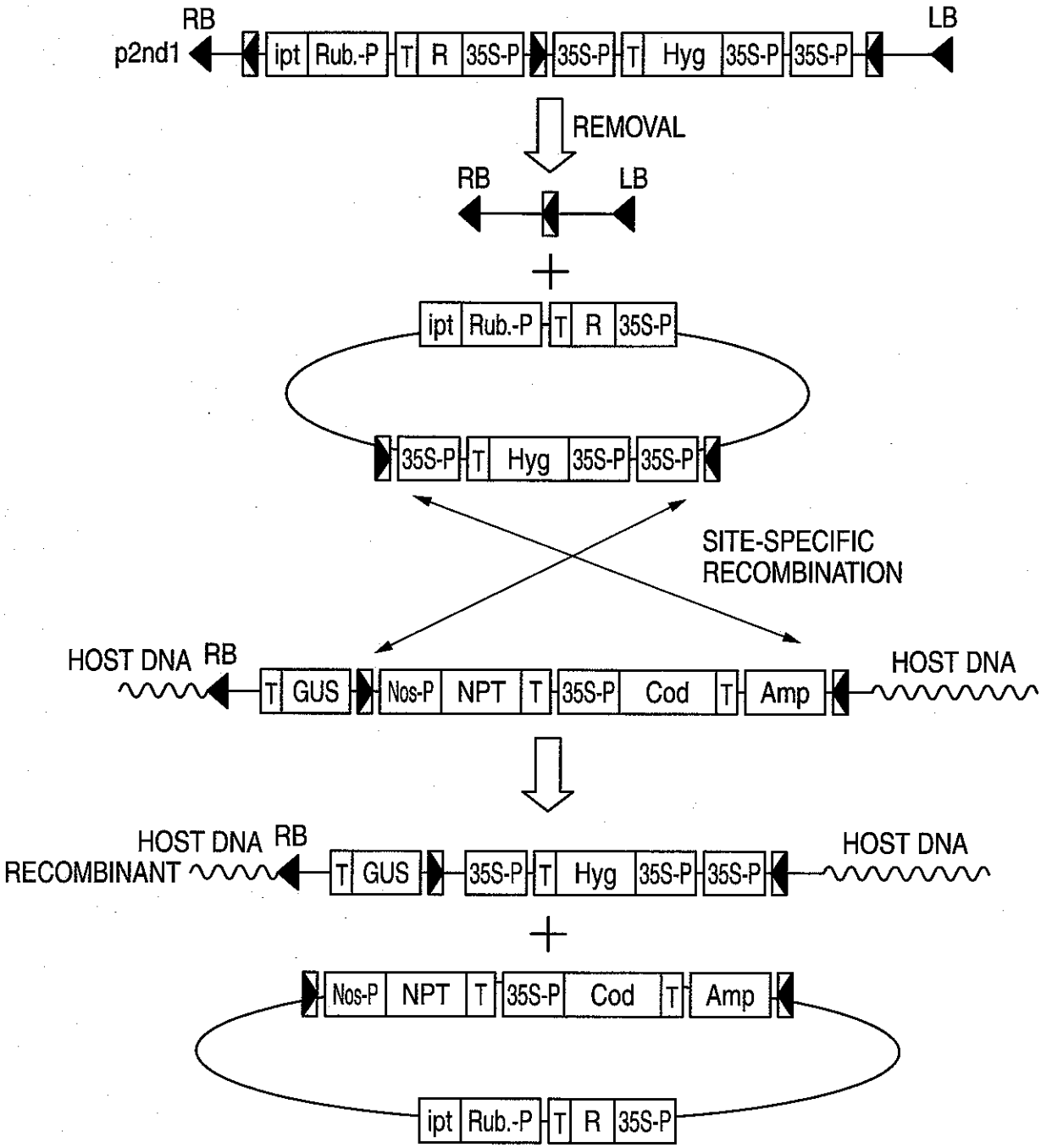

RB
p2nd1
ipt
Rub.-P
T
R
35S-P
35S-P
T
Hyg
35S-P
35S-P
LB
REMOVAL
RB
LB
ipt
Rub.-P
T
R
35S-P
35S-P
T
Hyg
35S-P
35S-P
SITE-SPECIFIC
RECOMBINATION
HOST DNA
RB
T
GUS
Nos-P
NPT
T
35S-P
Cod
T
Amp
HOST DNA
HOST DNA
RB
RECOMBINANT
T
GUS
35S-P
T
Hyg
35S-P
35S-P
HOST DNA
Nos-P
NPT
T
35S-P
Cod
T
Amp
ipt
Rub.-P
T
R
35S-P

FIG. 18

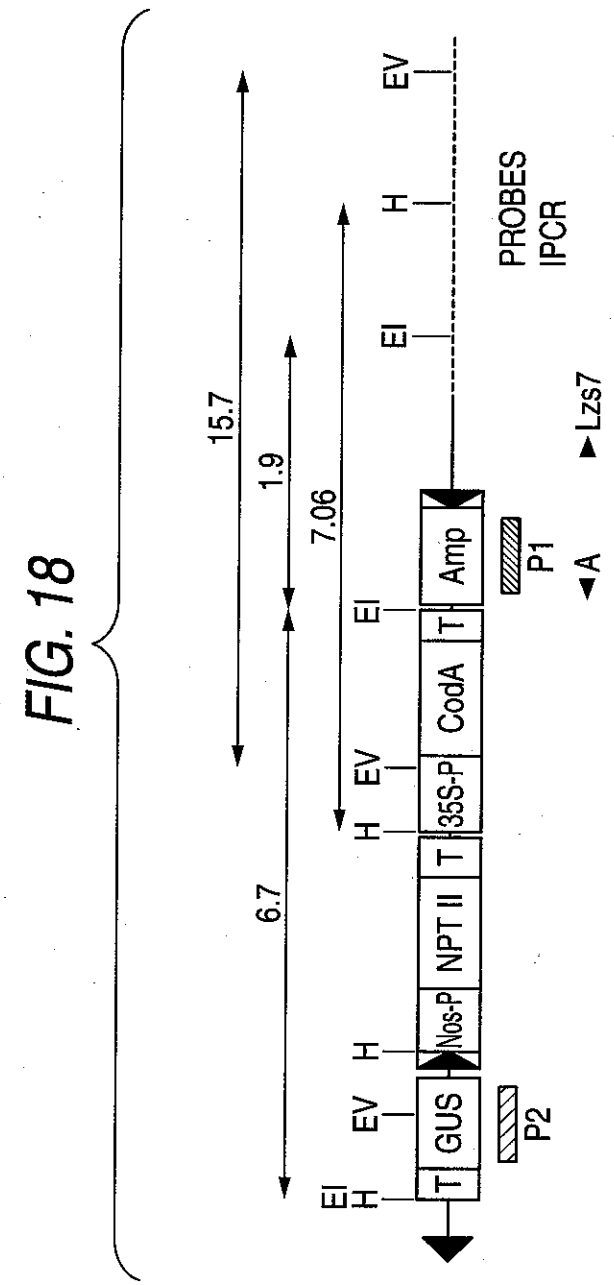

15.7
1.9
7.06
6.7
EV
H
EI
H
EV
EI
H
EV
EI
T
GUS
Nos-P
NPT II
T
35S-P
CodA
T
Amp
P2
P1
A
Lzs7
PROBES
IPCR

FIG. 19

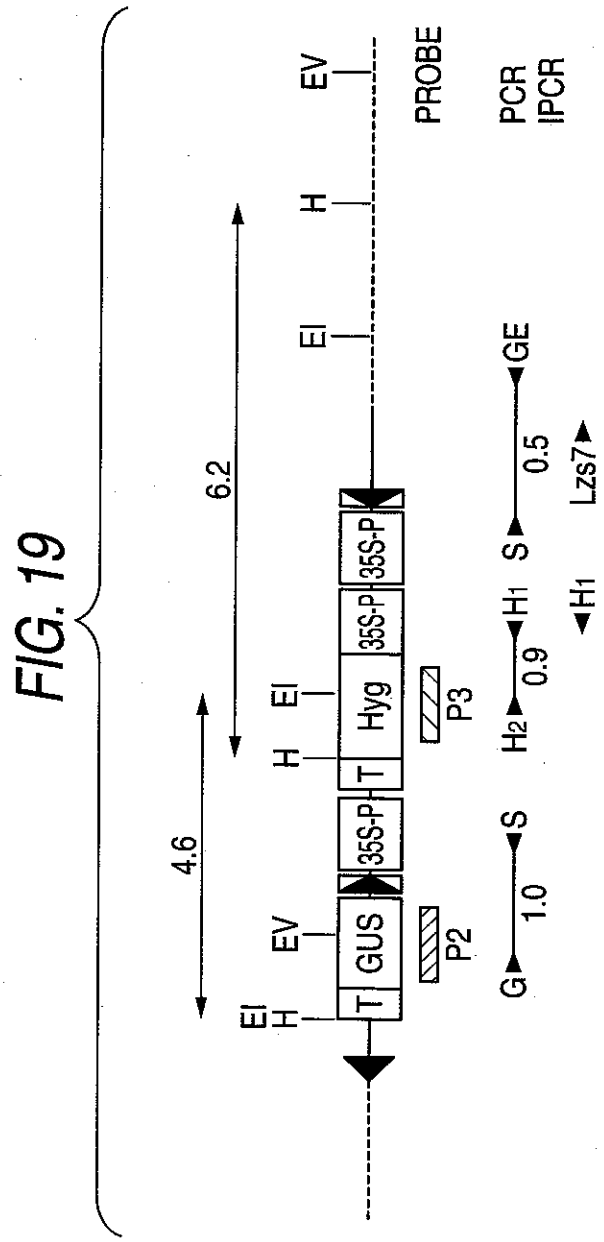
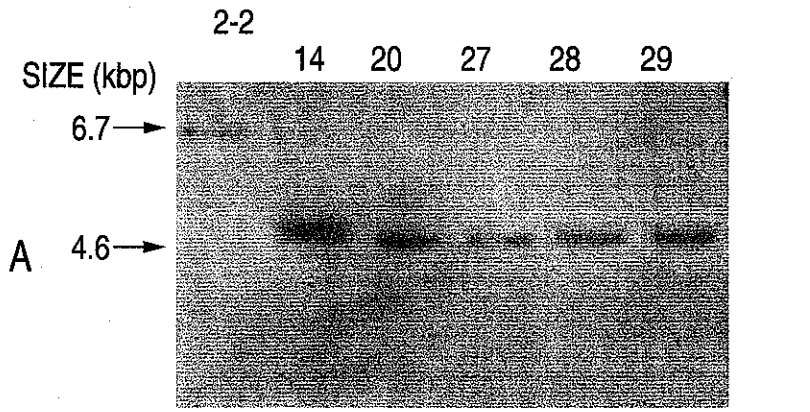

EV
H
EI
PROBE
PCR
IPCR
6.2
4.6
EI
H
EV
T
GUS
35S-P
Hyg
T
35S-P
35S-P
P2
P3
G
S
1.0
H2
H1
0.9
S
GE
0.5
H1
Lzs7

FIG. 20



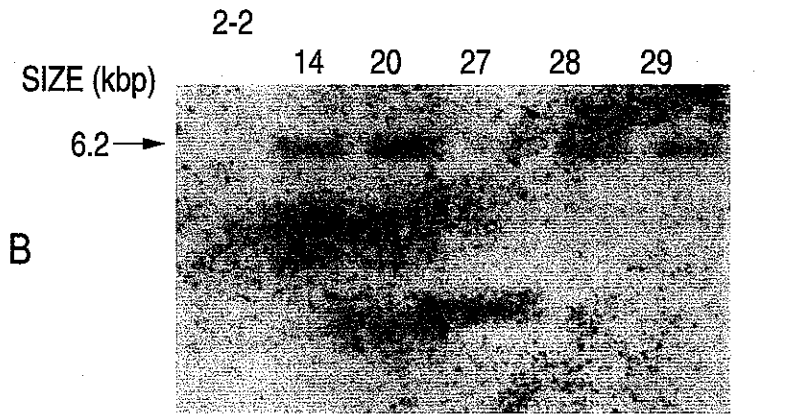


FIG. 21

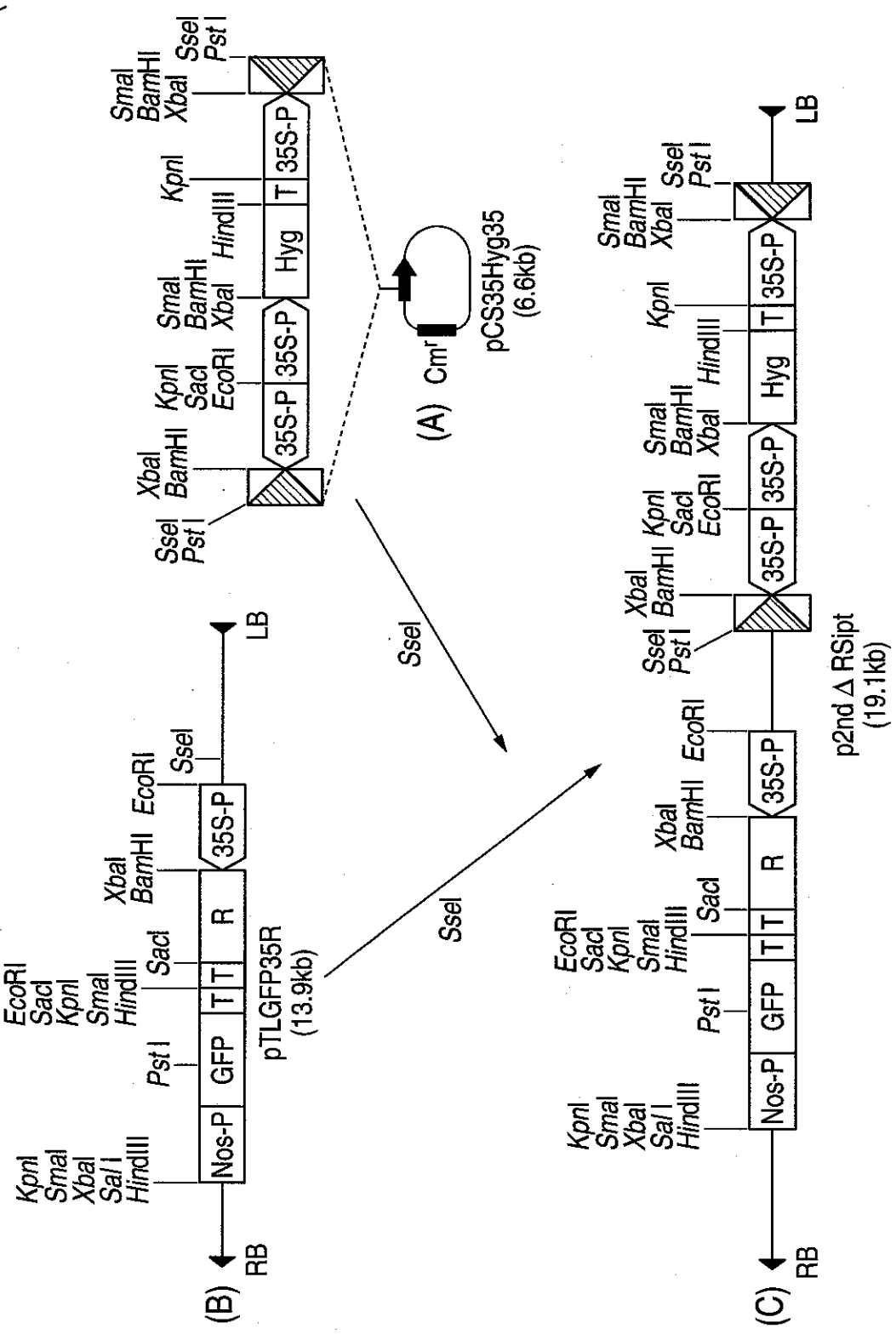

(A)
Cm^r
pCS35Hyg35
(6.6kb)
SmaI BamHI XbaI SseI PstI
KpnI T 35S-P
HindIII Hyg
SmaI BamHI XbaI
KpnI SacI EcoRI 35S-P 35S-P
XbaI BamHI SseI PstI
(B)
LB
RB
KpnI SmaI XbaI SalI HindIII
Nos-P GFP T T R
PstI SacI
EcoRI SacI KpnI SmaI HindIII
XbaI BamHI EcoRI SseI
35S-P
pTLGFP35R
(13.9kb)
SseI
SseI
(C)
LB
RB
EcoRI SacI KpnI SmaI HindIII
Nos-P GFP T T R
PstI SacI
XbaI BamHI EcoRI
35S-P
KpnI SmaI XbaI SalI HindIII
SseI PstI XbaI BamHI
KpnI SacI EcoRI 35S-P 35S-P
SmaI BamHI XbaI
HindIII Hyg T 35S-P
KpnI
SmaI BamHI XbaI SseI PstI
p2nd Δ RSipt
(19.1kb)

FIG. 22

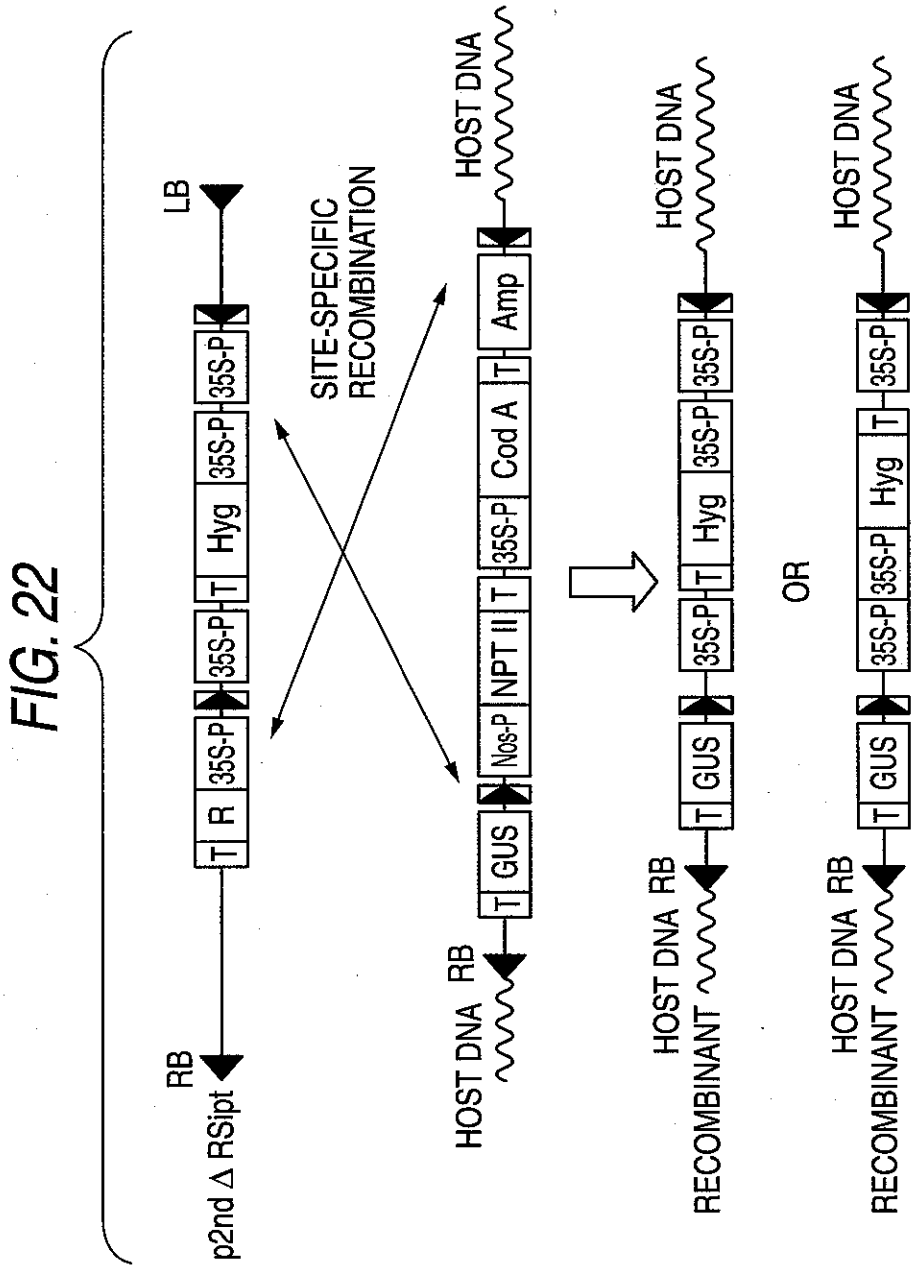

LB
RB
p2nd Δ RSipt
T R 35S-P 35S-P T Hyg 35S-P 35S-P
SITE-SPECIFIC RECOMBINATION
HOST DNA
HOST DNA RB
T GUS Nos-P NPT II T 35S-P Cod A T Amp
HOST DNA
HOST DNA RB
RECOMBINANT
T GUS 35S-P T Hyg 35S-P 35S-P
OR
HOST DNA
HOST DNA RB
RECOMBINANT
T GUS 35S-P 35S-P Hyg T 35S-P

FIG. 23

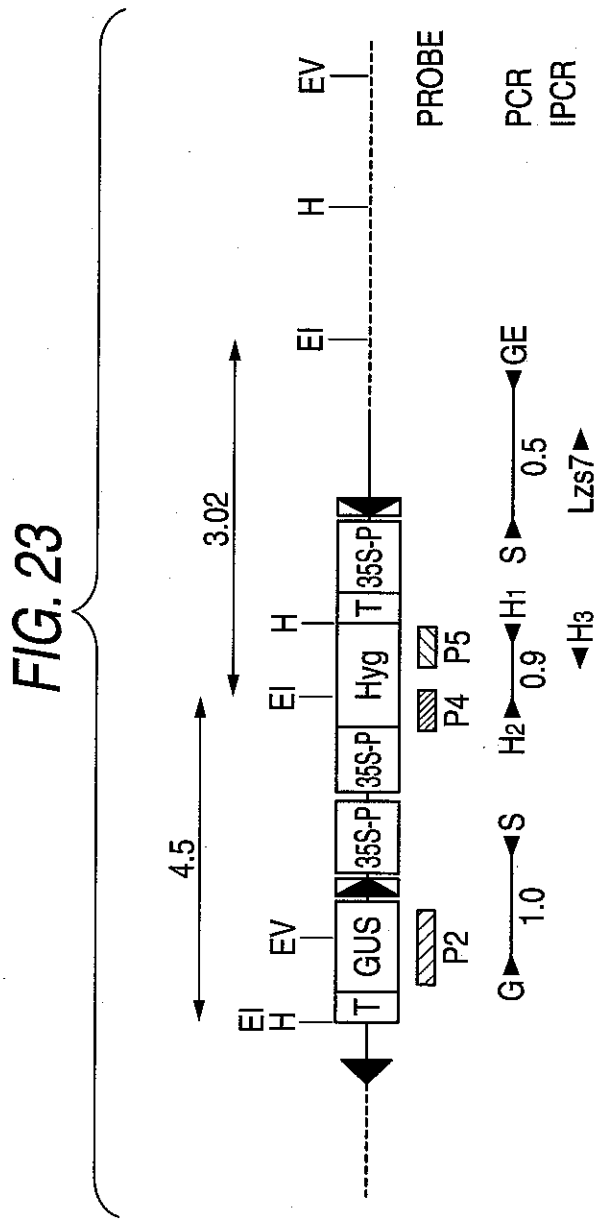

EV
H
EI
PROBE
PCR
IPCR
GE
0.5
Lzs7
S
H1
H3
0.9
H2
S
1.0
G
3.02
4.5
EI
H
T
35S-P
Hyg
35S-P
35S-P
GUS
T
EV
EI
H
P5
P4
P2

FIG. 24

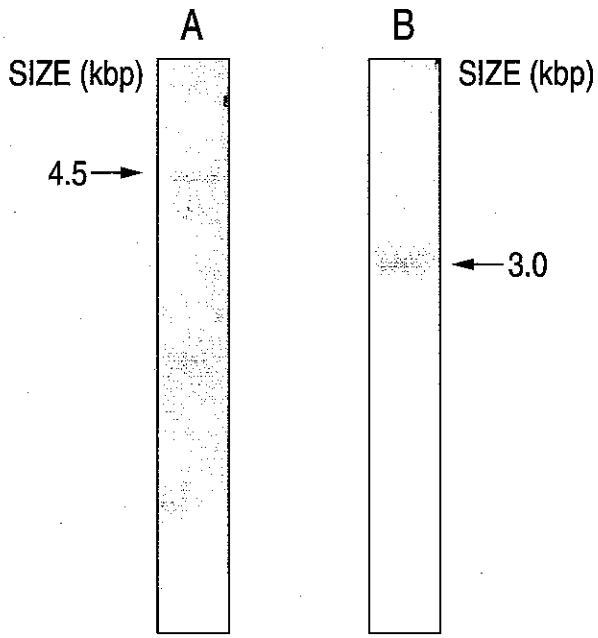


FIG. 25

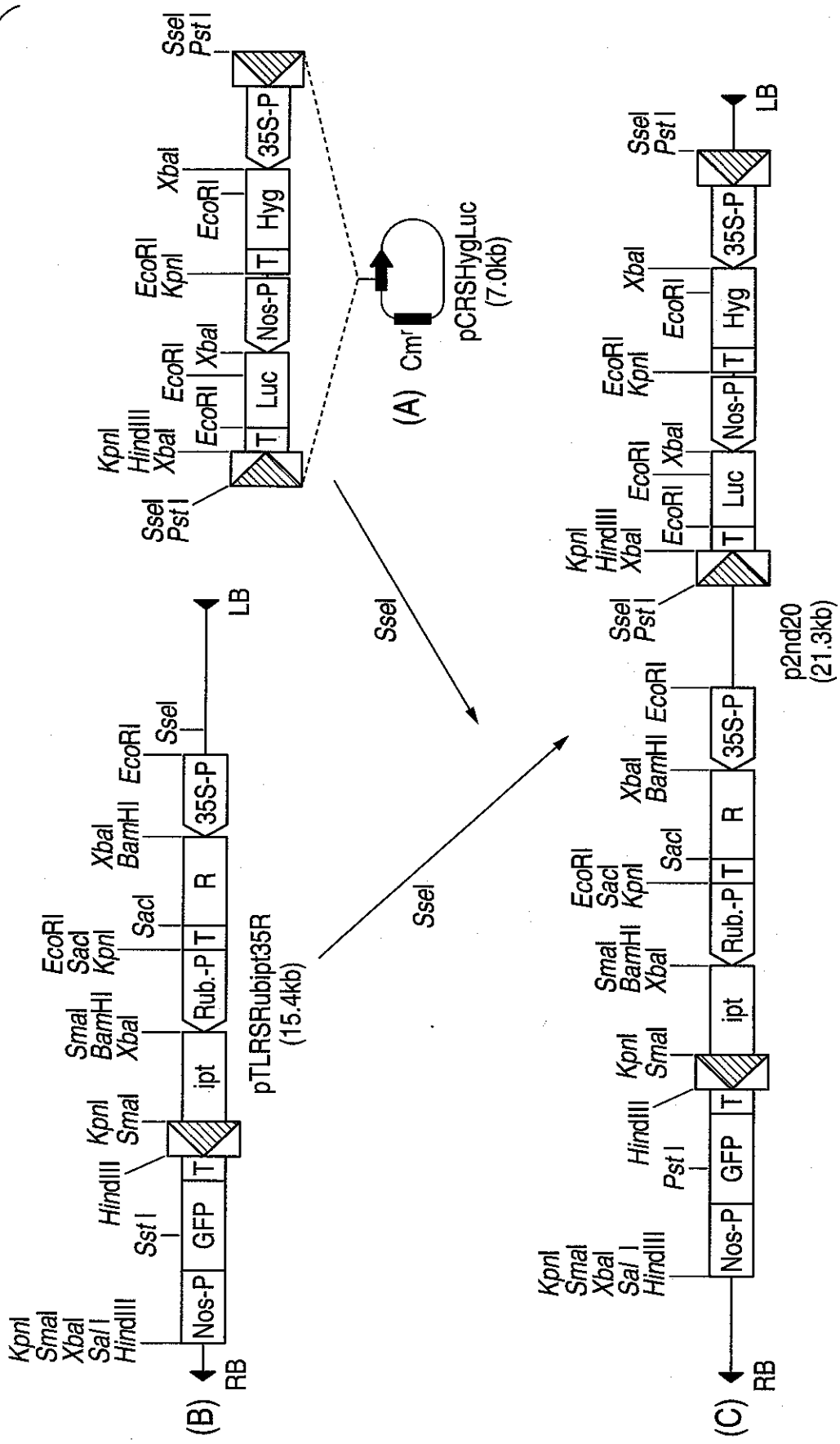
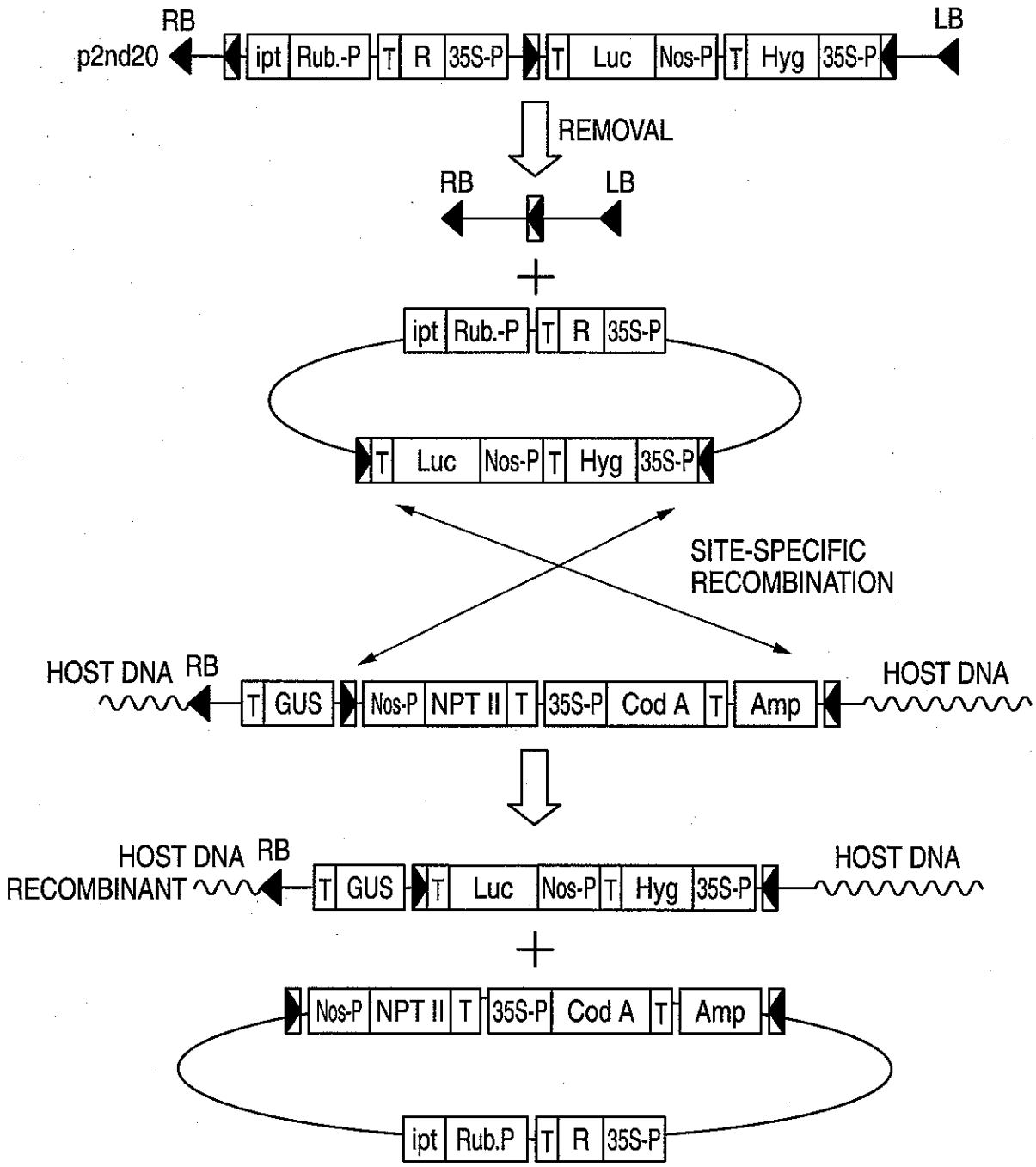

SseI
PstI
35S-P
XbaI
EcoRI
Hyg
T
EcoRI
KpnI
Nos-P
T
EcoRI
XbaI
Luc
T
EcoRI
KpnI
HindIII
XbaI
SseI
PstI
(A) Cmr
pCRSHygLuc
(7.0kb)
SseI
LB
SseI
EcoRI
35S-P
XbaI
BamHI
R
SacI
T
EcoRI
SacI
KpnI
Rub.-P
SmaI
BamHI
XbaI
ipt
KpnI
SmaI
T
HindIII
SstI
GFP
Nos-P
KpnI
SmaI
XbaI
SalI
HindIII
RB
(B)
pTLRSRubipt35R
(15.4kb)
SseI
SseI
PstI
35S-P
XbaI
EcoRI
Hyg
T
EcoRI
KpnI
Nos-P
T
EcoRI
XbaI
Luc
T
KpnI
HindIII
XbaI
EcoRI
SseI
PstI
LB
EcoRI
35S-P
XbaI
BamHI
R
SacI
T
EcoRI
SacI
KpnI
Rub.-P
SmaI
BamHI
XbaI
ipt
KpnI
SmaI
T
HindIII
PstI
GFP
Nos-P
KpnI
SmaI
XbaI
SalI
HindIII
RB
(C)
p2nd20
(21.3kb)

FIG. 26


RB
LB
p2nd20
ipt
Rub.-P
T
R
35S-P
T
Luc
Nos-P
T
Hyg
35S-P
REMOVAL
RB
LB
ipt
Rub.-P
T
R
35S-P
T
Luc
Nos-P
T
Hyg
35S-P
SITE-SPECIFIC
RECOMBINATION
HOST DNA
RB
T
GUS
Nos-P
NPT II
T
35S-P
Cod A
T
Amp
HOST DNA
HOST DNA
RB
RECOMBINANT
T
GUS
T
Luc
Nos-P
T
Hyg
35S-P
HOST DNA
Nos-P
NPT II
T
35S-P
Cod A
T
Amp
ipt
Rub.P
T
R
35S-P

(FIG. 27 CONTINUED)

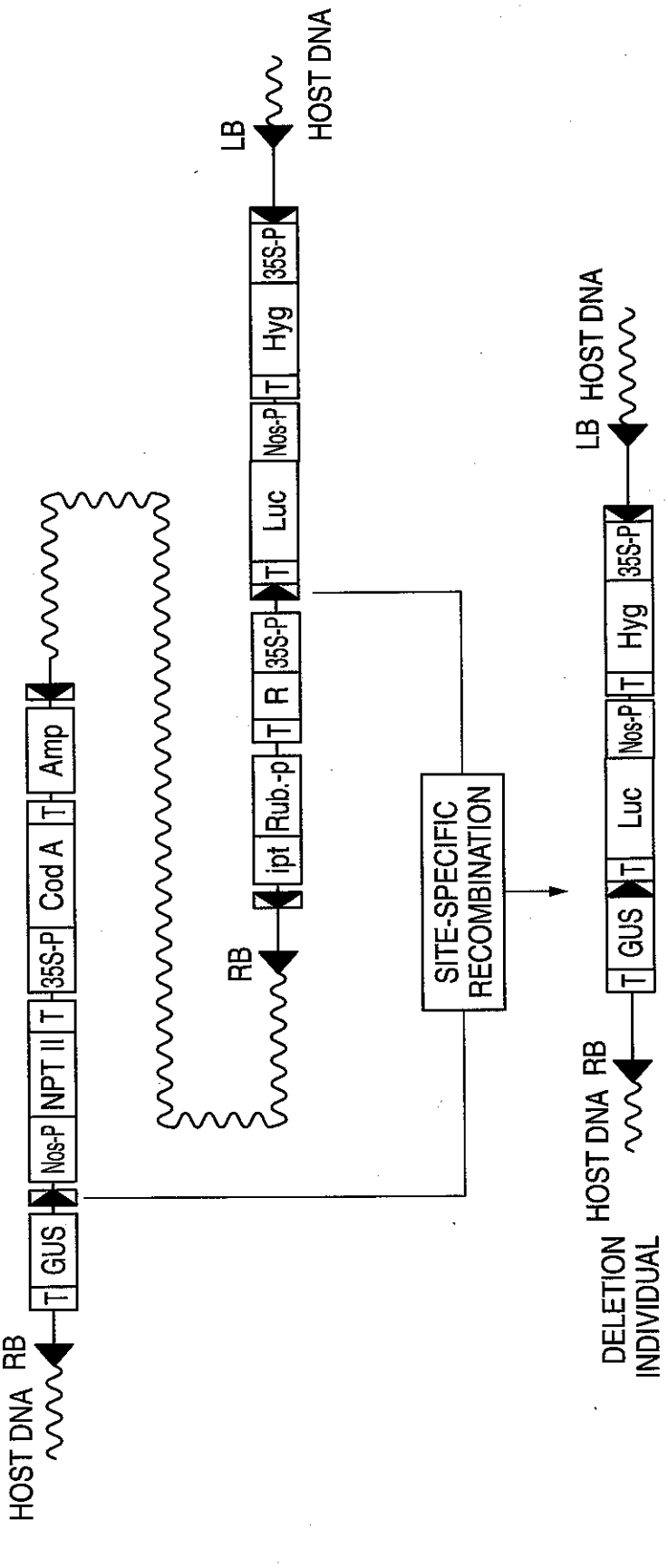


FIG. 28

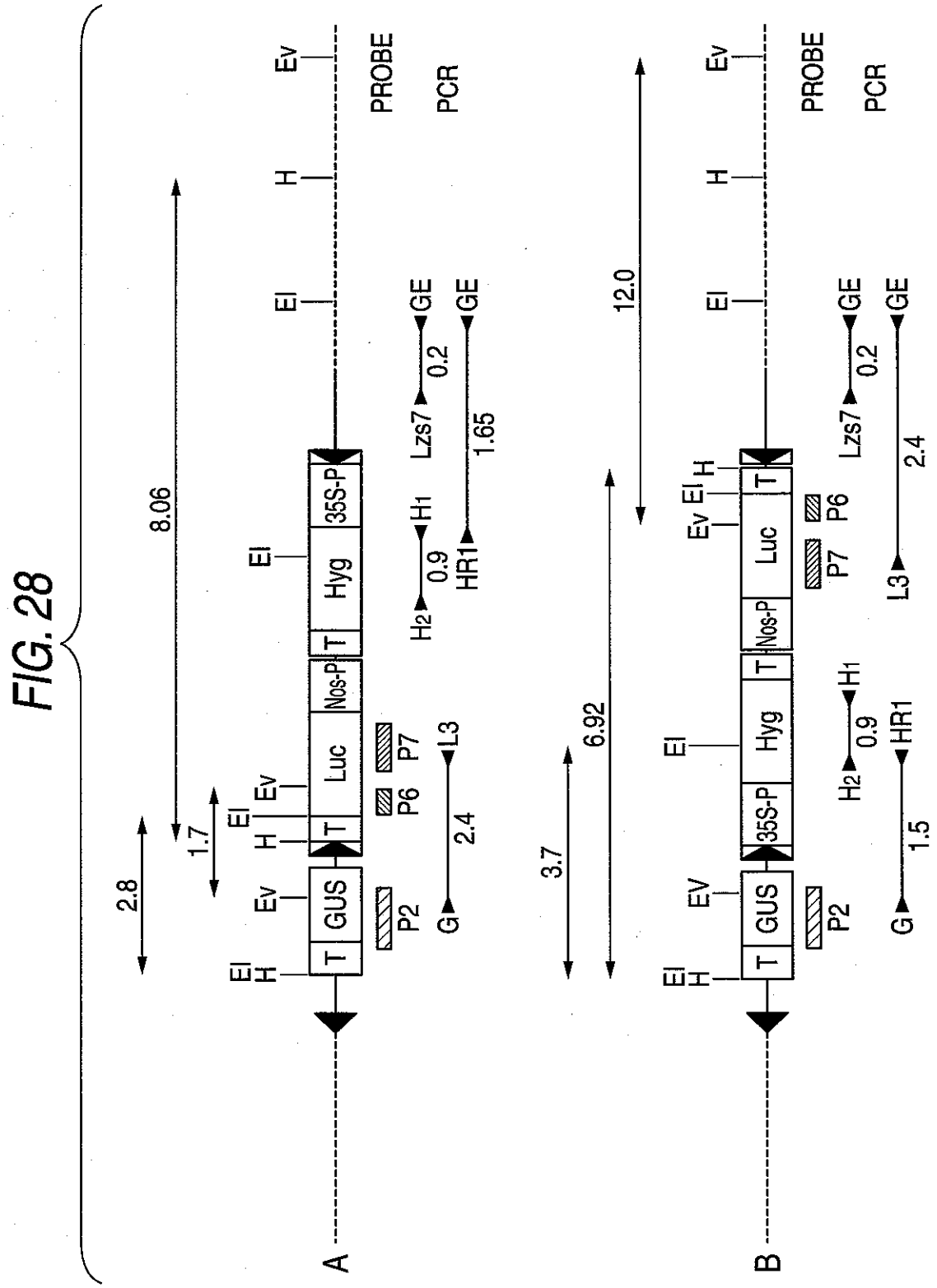

A
B
PROBE
PCR
Ev
H
EI
EV
T
GUS
P2
Luc
Nos-P
Hyg
35S-P
P6
P7
Lzs7
GE
H1
H2
HR1
L3
G
0.2
0.9
1.65
2.4
1.5
2.8
1.7
8.06
3.7
6.92
12.0

FIG. 29

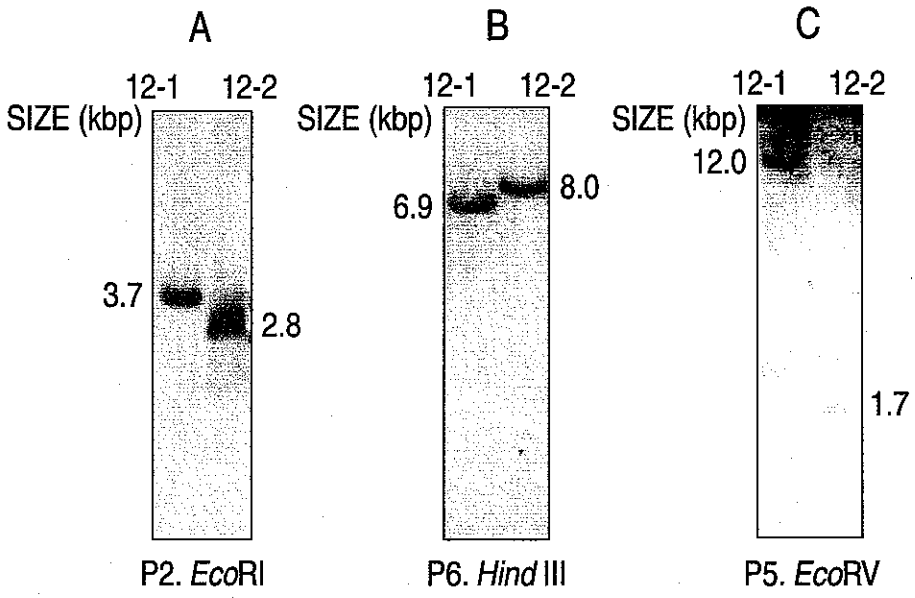

A
12-1
12-2
SIZE (kbp)
3.7
2.8
P2. EcoRI
B
12-1
12-2
SIZE (kbp)
6.9
8.0
P6. Hind III
C
12-1
12-2
SIZE (kbp)
12.0
1.7
P5. EcoRV

FIG. 30

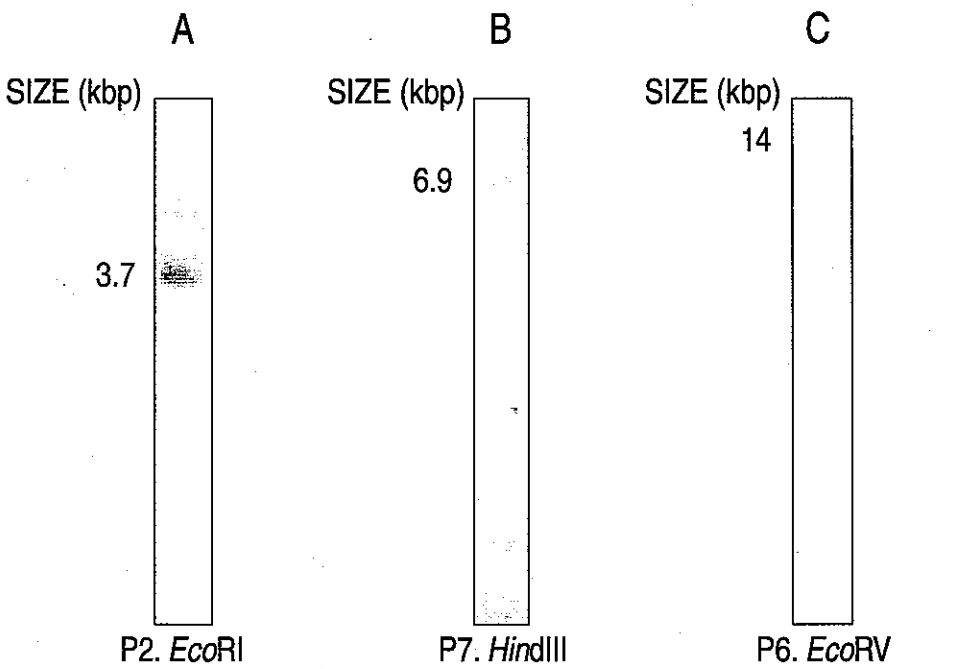

A
SIZE (kbp)
3.7
P2. EcoRI
B
SIZE (kbp)
6.9
P7. HindIII
C
SIZE (kbp)
14
P6. EcoRV

FIG. 31

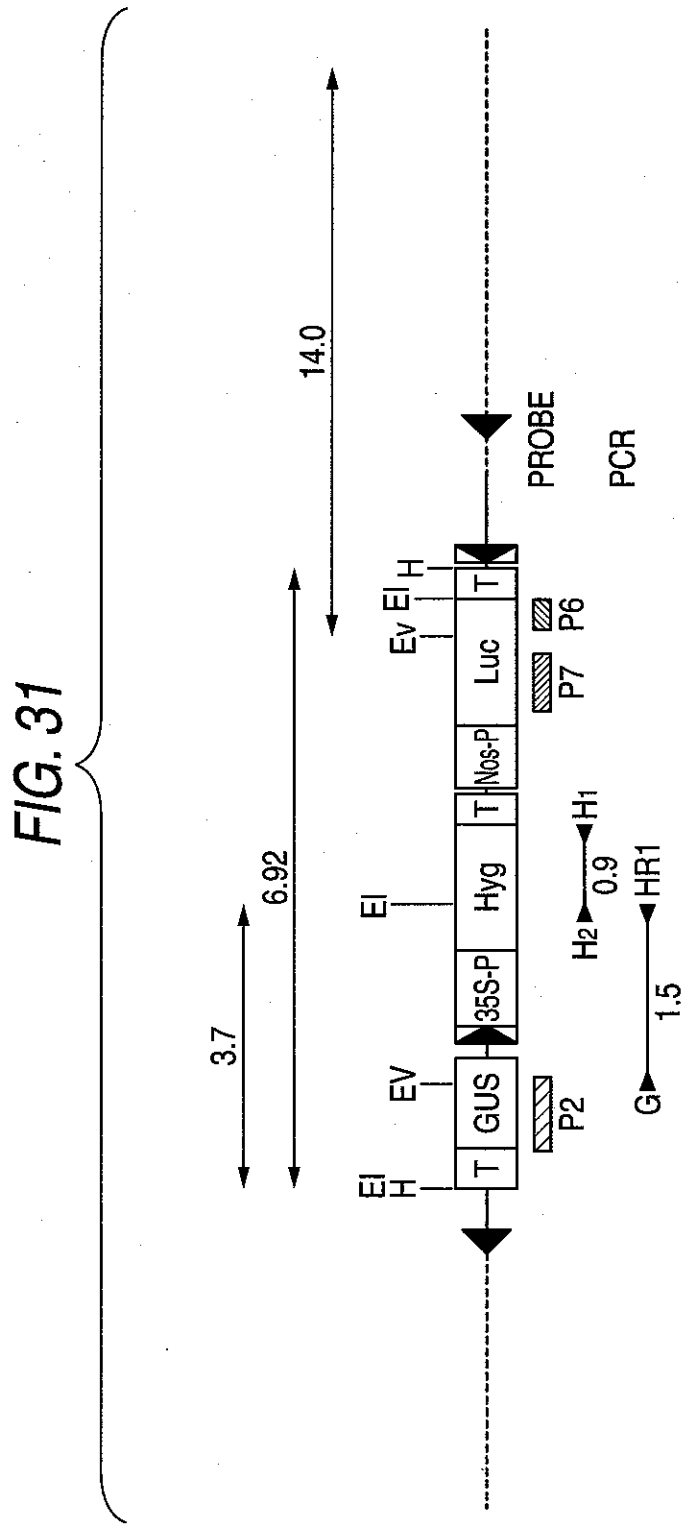
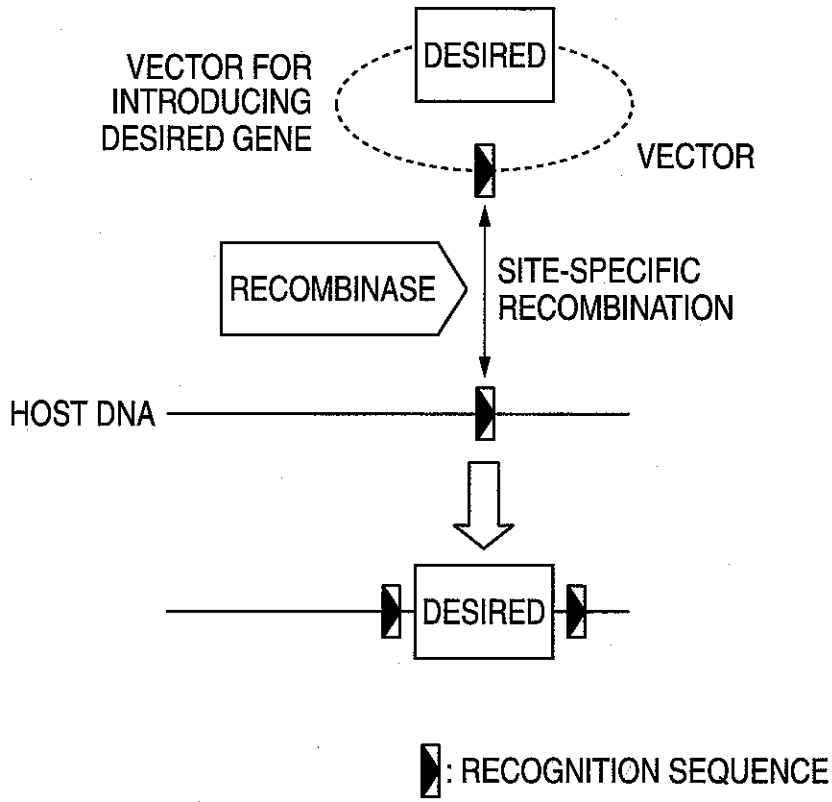

14.0
6.92
3.7
PROBE
PCR
EI
H
Ev
EI
T
Luc
P6
P7
Nos-P
T
Hyg
H1
0.9
H2
HR1
1.5
G
EI
35S-P
EV
GUS
P2
T
EI
H

FIG. 32


VECTOR FOR INTRODUCING DESIRED GENE
DESIRED
VECTOR
RECOMBINASE
SITE-SPECIFIC RECOMBINATION
HOST DNA
DESIRED
: RECOGNITION SEQUENCE