Fig. 1

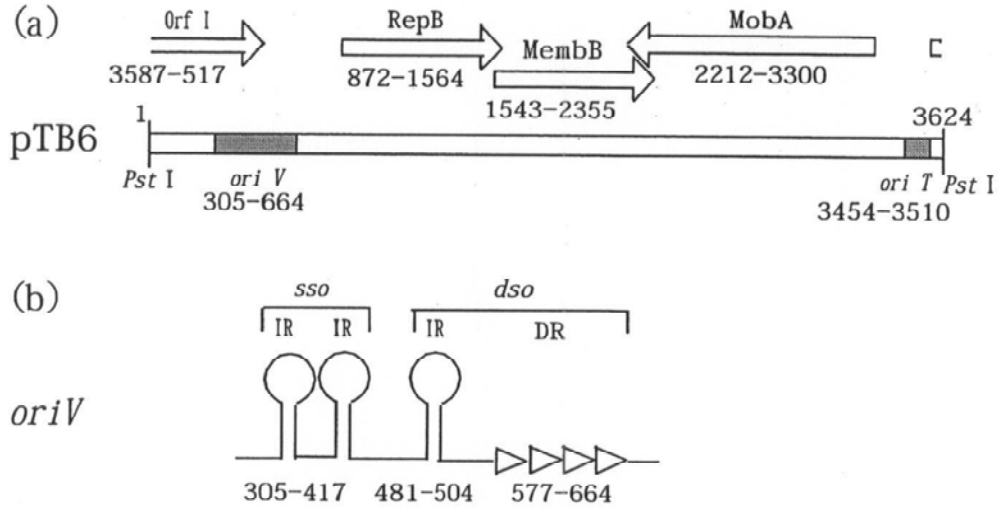


Fig. 2

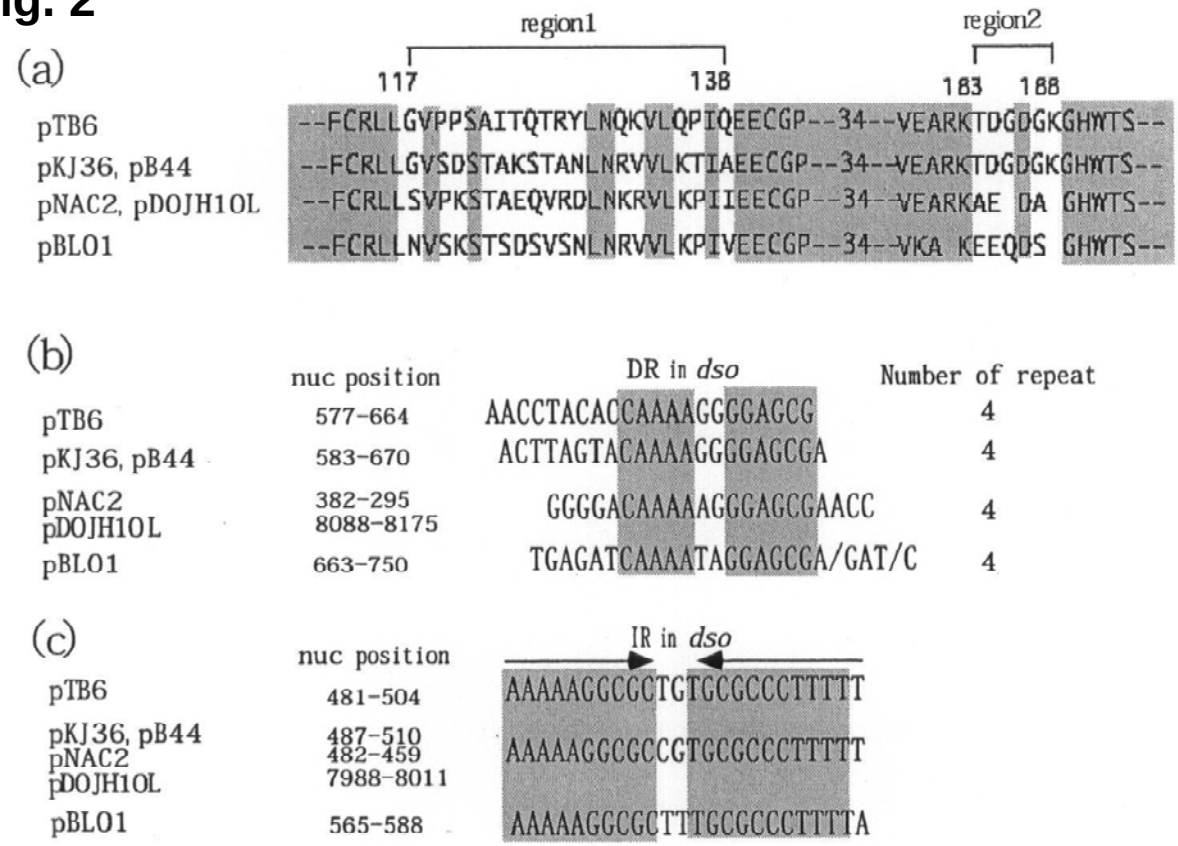


Fig. 3

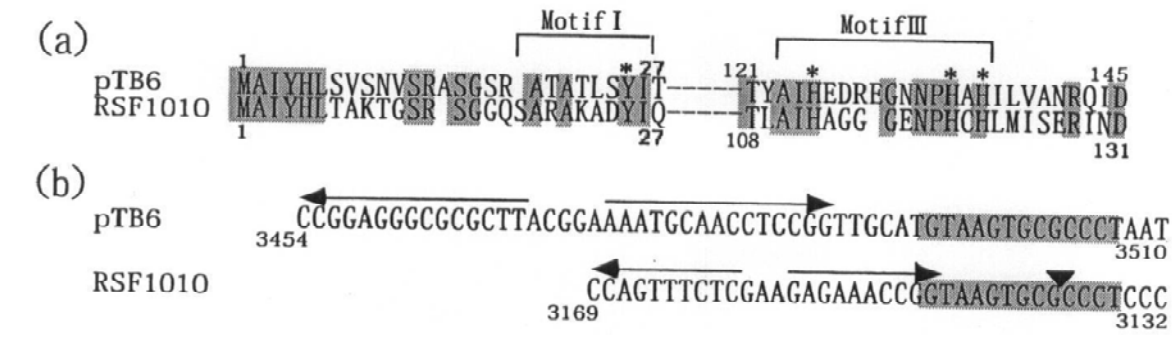


Fig. 4

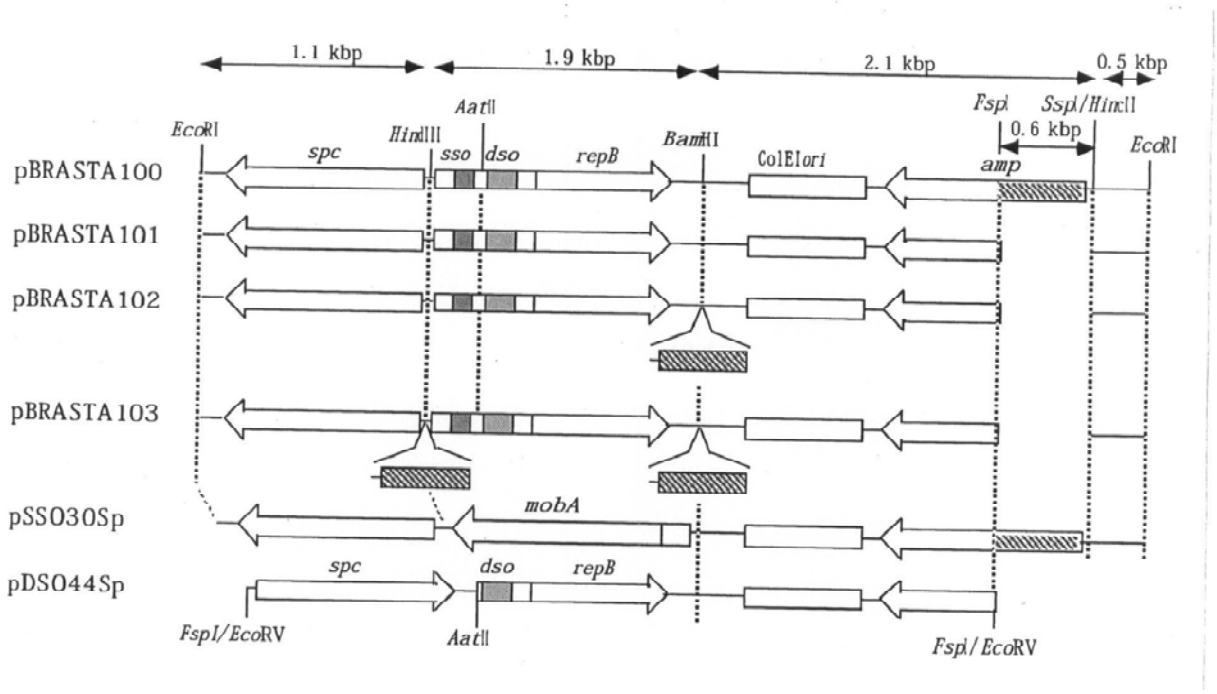

1.1 kbp
1.9 kbp
2.1 kbp
0.5 kbp
0.6 kbp
EcoRI
HindIII
AatII
spc
sso
dso
repB
BamHI
ColEIori
amp
FspI
SspI/HincII
EcoRI
pBRASTA100
pBRASTA101
pBRASTA102
pBRASTA103
pSSO30Sp
mobA
pDSO44Sp
spc
dso
repB
FspI/EcoRV
AatII
FspI/EcoRV

Fig. 5

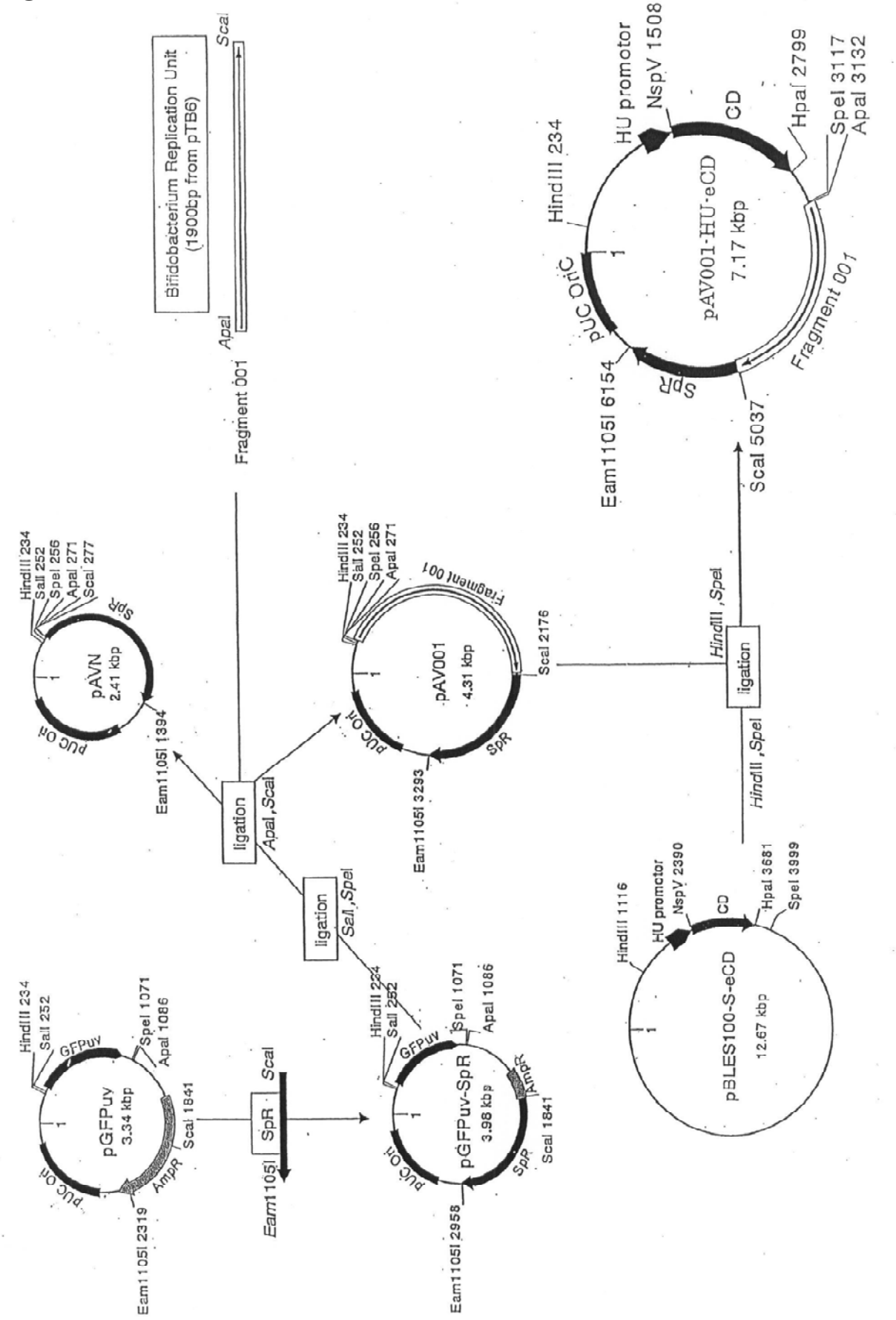

Bifidobacterium Replication Unit
(1900bp from pTB6)
ScaI
ApaI
Fragment 001
pAVN
2.41 kbp
HindIII 234
SalI 252
SpeI 256
ApaI 271
ScaI 277
SpR
PUC Ori
Eam1105I 1394
ligation
ApaI ,ScaI
pAV001
4.31 kbp
Fragment 001
ScaI 2176
Eam1105I 3293
pAV001-HU-eCD
7.17 kbp
HU promotor
NspV 1508
CD
HpaI 2799
SpeI 3117
ApaI 3132
HindIII 234
PUC Ori
Eam1105I 6154
SpR
Fragment 001
ScaI 5037
HindIII ,SpeI
ligation
HindIII ,SpeI
pBLES100-S-eCD
12.67 kbp
HindIII 1116
HU promotor
NspV 2390
CD
HpaI 3681
SpeI 3999
pGFPuv
3.34 kbp
HindIII 234
SalI 252
GFPuv
SpeI 1071
ApaI 1086
ScaI 1841
AmpR
PUC Ori
Eam1105I 2319
SpR
ScaI
Eam1105I
ligation
SalI ,SpeI
pGFPuv-SpR
3.98 kbp
HindIII 234
SalI 252
GFPuv
SpeI 1071
ApaI 1086
AmpR
ScaI 1841
SpR
PUC Ori
Eam1105I 2958

Fig. 6

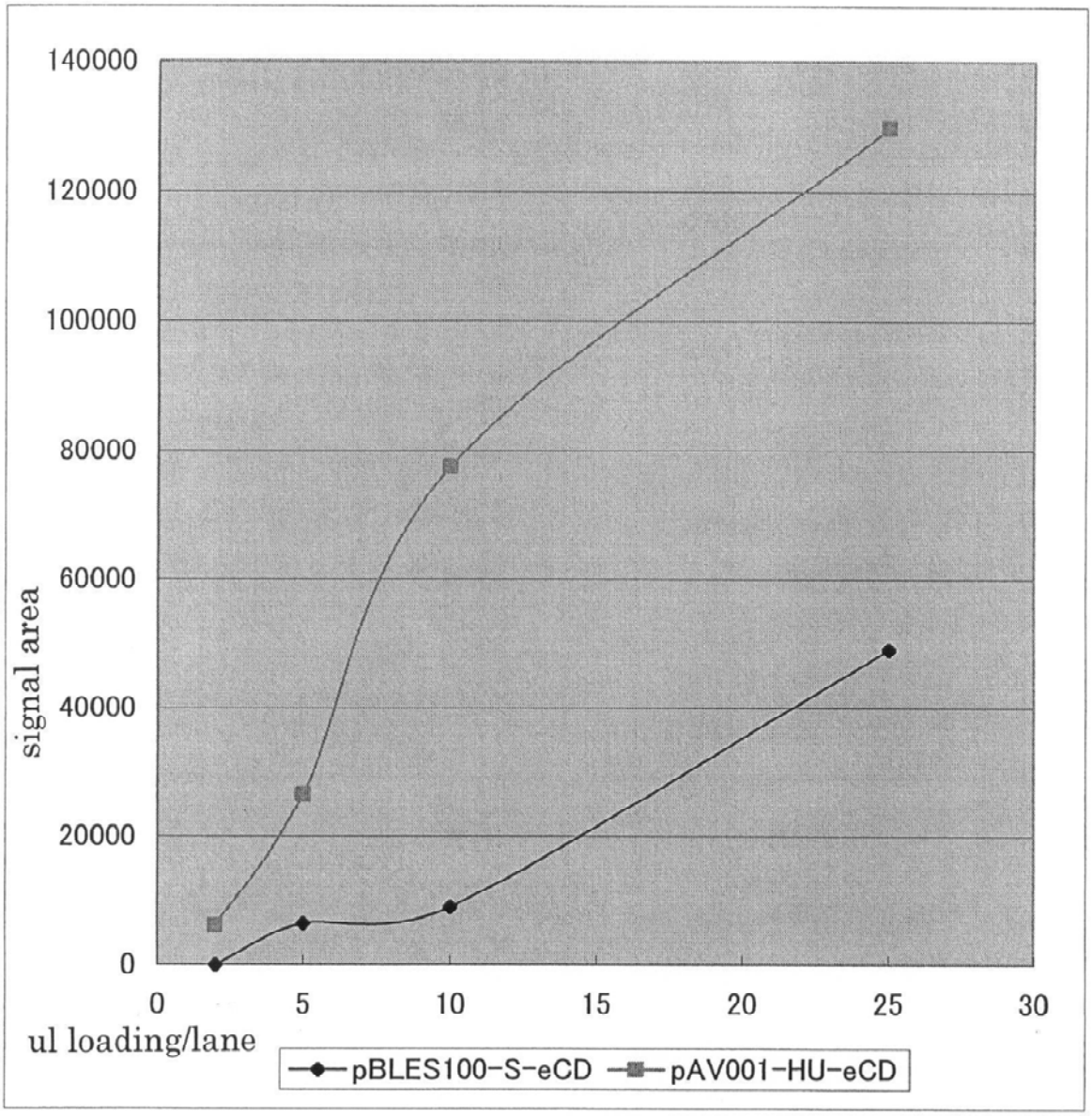

140000
120000
100000
80000
60000
40000
20000
0
signal area
0
5
10
15
20
25
30
ul loading/lane
pBLES100-S-eCD
pAV001-HU-eCD

Fig. 7

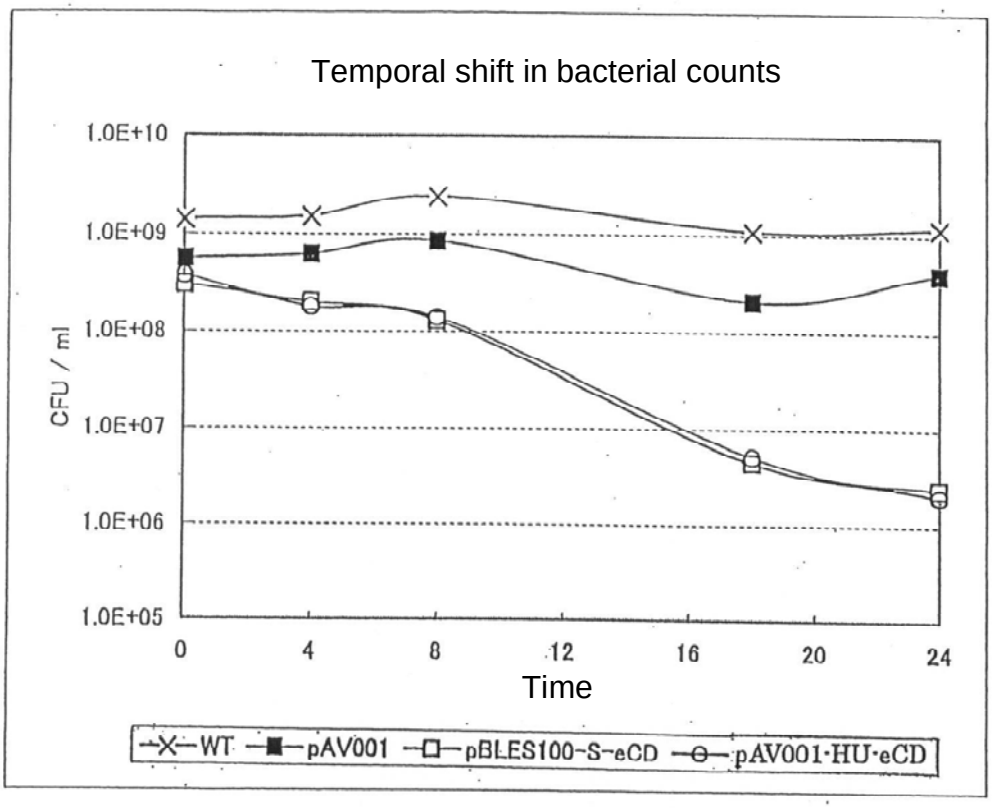

Temporal shift in bacterial counts
1.0E+10
1.0E+09
1.0E+08
1.0E+07
1.0E+06
1.0E+05
CFU / ml
0
4
8
12
16
20
24
Time
WT
pAV001
pBLES100-S-eCD
pAV001·HU·eCD

Fig. 8

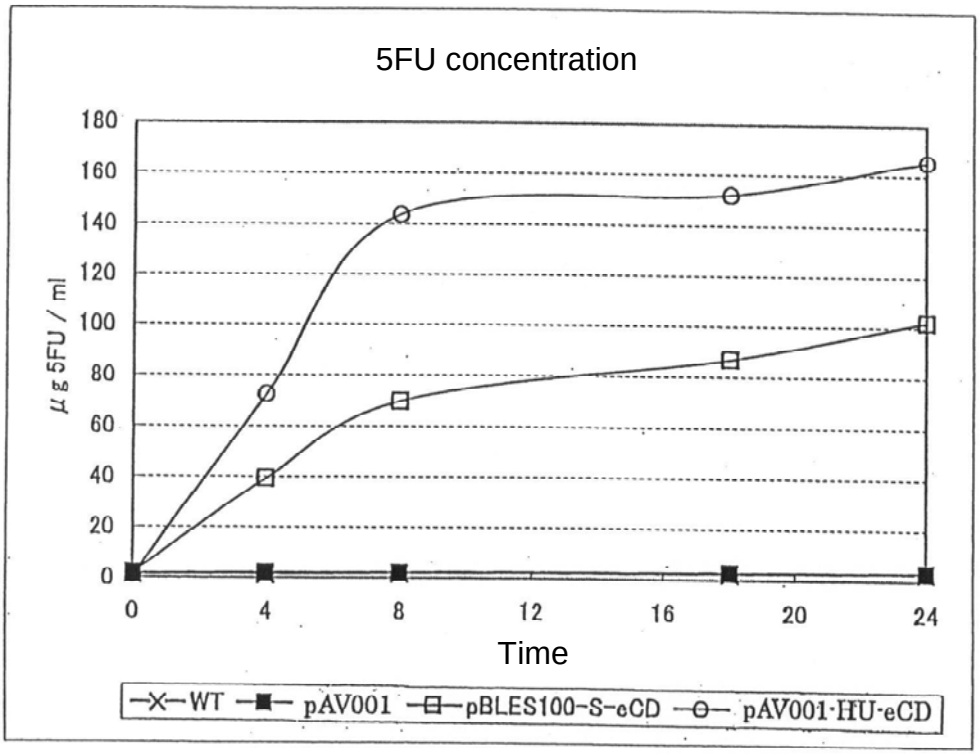
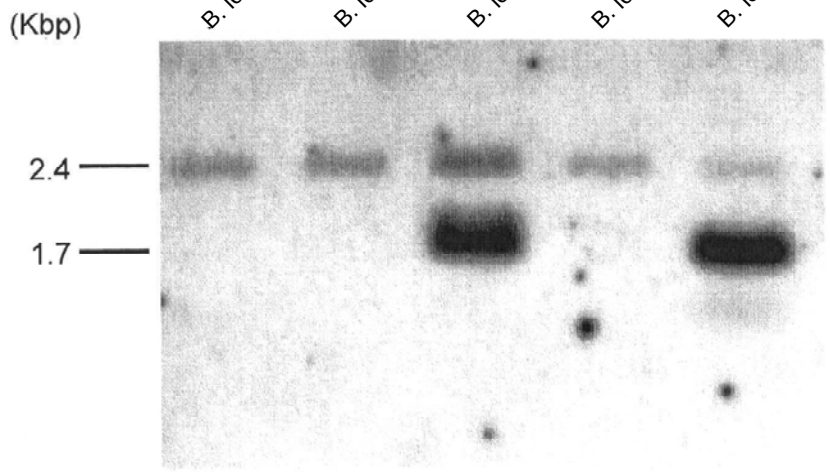

5FU concentration
180
160
140
120
100
80
60
40
20
0
μg 5FU / ml
0
4
8
12
16
20
24
Time
WT
pAV001
pBLES100-S-eCD
pAV001·HU·eCD

Fig. 9

A



B

hup gene (Genome)	14212	15164	29784	15708	8228
hup promoter (Plasmid)			97104		96084
Plasmid Copy Number			3.26		11.68