Fig. 1

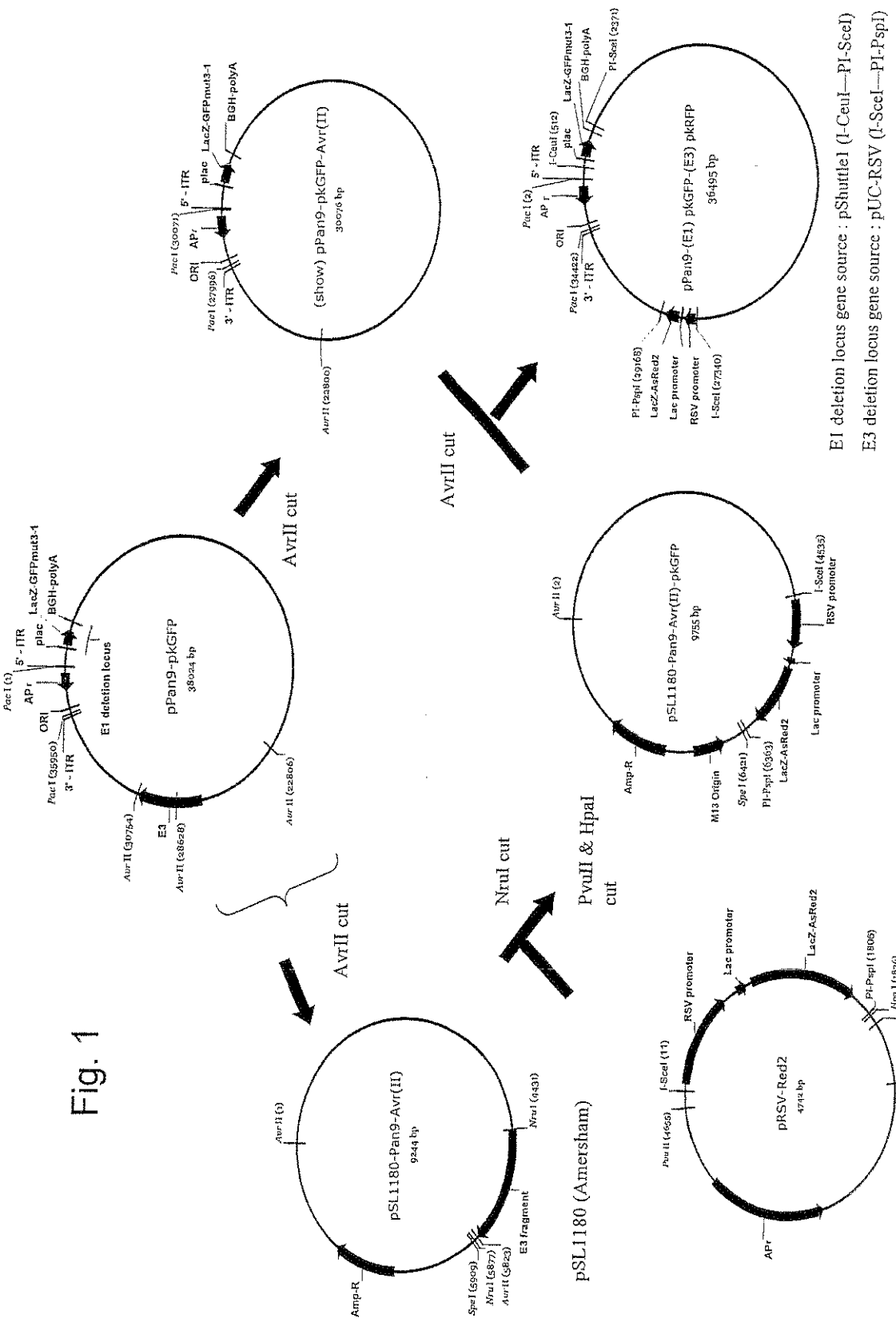
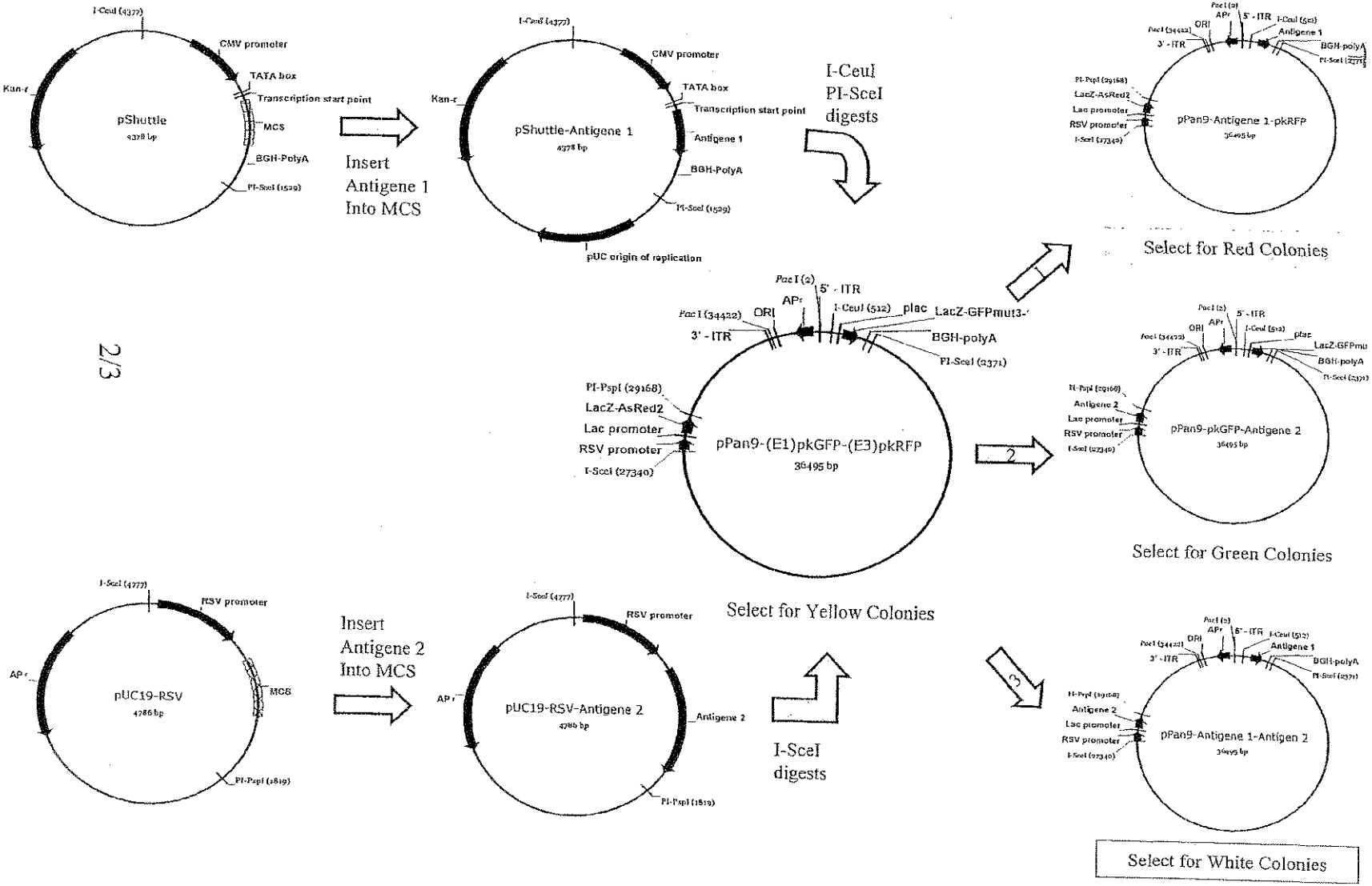
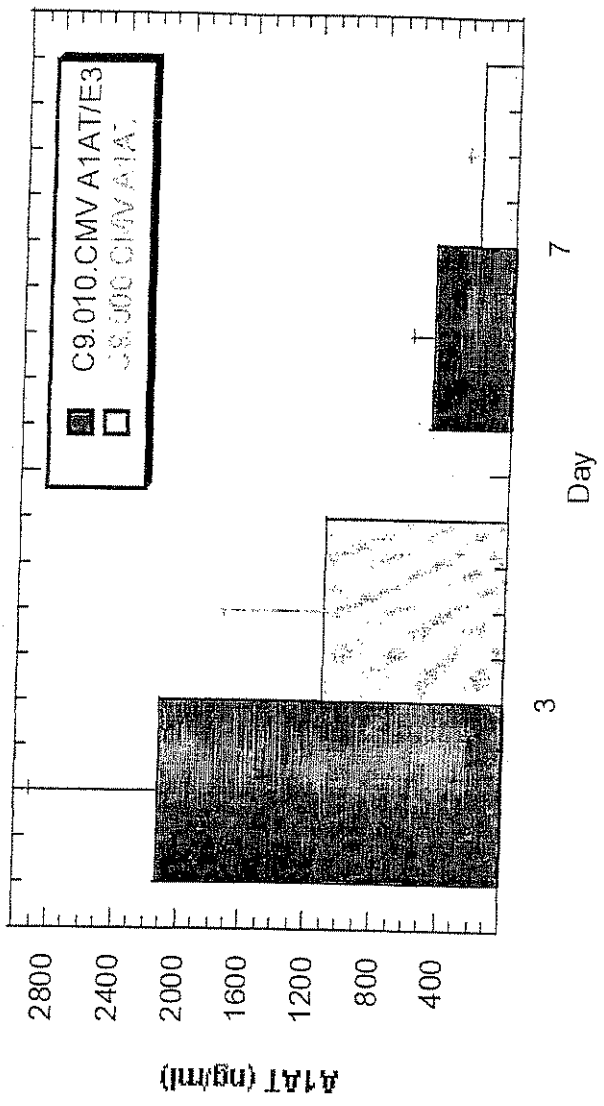

pPan9-pkGFP
38024 bp
E1 deletion locus
E3
AvrII cut
(show) pPan9-pkGFP-Avr(II)
36076 bp
pPan9-(E1) pkGFP-(E3) pkRFP
36495 bp
E1 deletion locus gene source : pShuttle1 (I-CeuI—PI-SceI)
E3 deletion locus gene source : pUC-RSV (I-SceI—PI-PspI)
pSL1180-Pan9-Avr(II)
9244 bp
E3 fragment
NruI cut
PvuII & HpaI cut
pSL1180 (Amersham)
pSL1180-Pan9-Avr(II)-pkGFP
9755 bp
pRSV-Red2
4714 bp
pUC19 + RSV promoter + pkRFP (Clontech)

Fig. 2


I-CeuI (4377)
CMV promoter
TATA box
Transcription start point
Kan-r
pShuttle
MCS
BGH-PolyA
PI-SceI (1529)
Insert
Antigene 1
Into MCS
pShuttle-Antigene 1
Antigene 1
pUC origin of replication
I-CeuI
PI-SceI
digests
pPan9-Antigene 1-pkRFP
Select for Red Colonies
PacI (2)
5' - ITR
APr
ORI
PacI (34422)
3' - ITR
I-CeuI (512)
plac
LacZ-GFPmut3-
BGH-polyA
PI-SceI (2371)
PI-PspI (29168)
LacZ-AsRed2
Lac promoter
RSV promoter
I-SceI (27340)
pPan9-(E1)pkGFP-(E3)pkRFP
36495 bp
pPan9-pkGFP-Antigene 2
Select for Green Colonies
Select for Yellow Colonies
I-SceI (4777)
RSV promoter
pUC19-RSV
4286 bp
MCS
PI-PspI (1819)
Insert
Antigene 2
Into MCS
pUC19-RSV-Antigene 2
Antigene 2
I-SceI
digests
pPan9-Antigene 1-Antigen 2
Select for White Colonies

2/3

Fig. 3


C9.010.CMV A1AT/E3
2800
2400
2000
1600
1200
800
400
A1AT (ng/ml)
3
7
Day