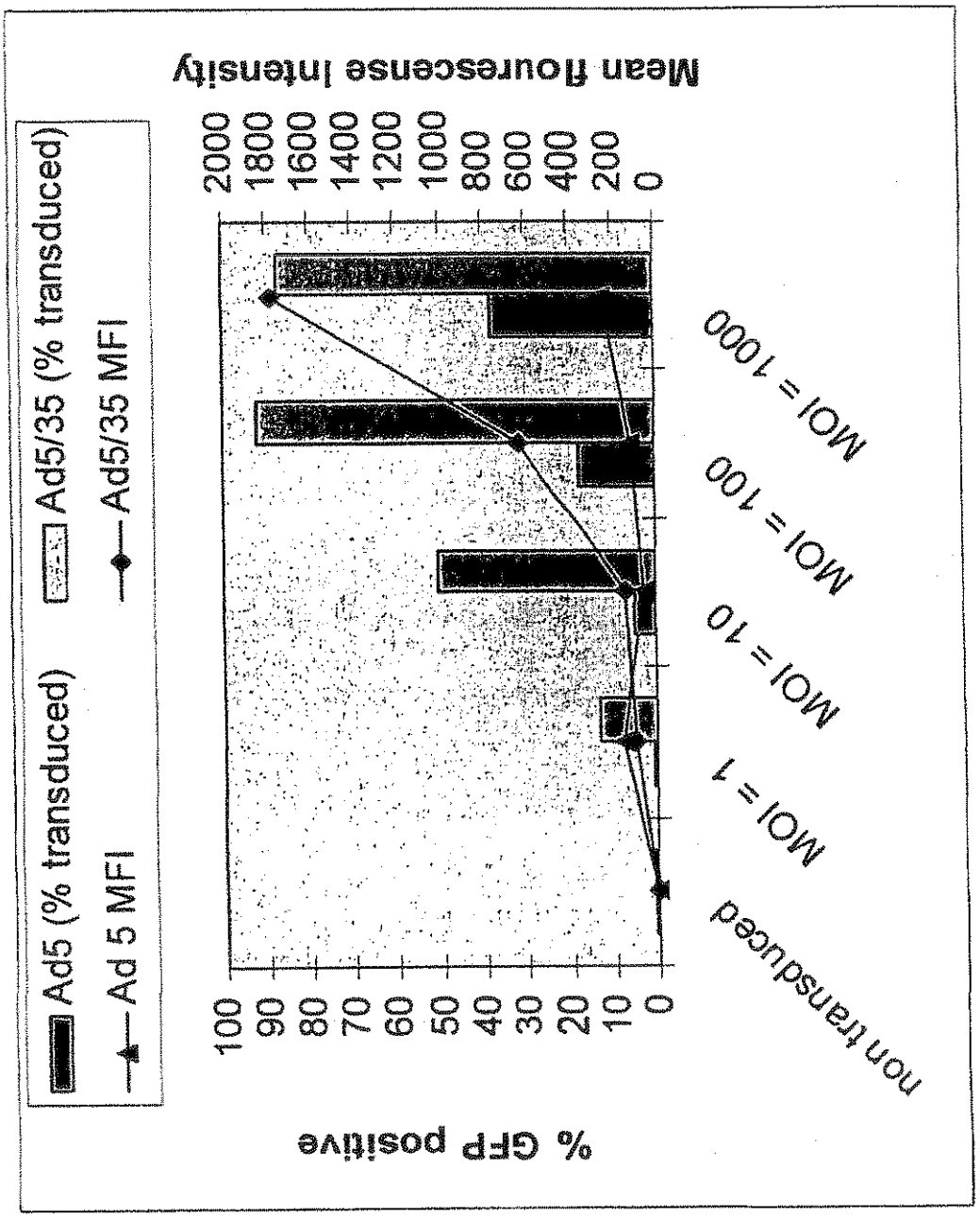

Ad5 (% transduced)
Ad5/35 (% transduced)
Ad 5 MFI
Ad5/35 MFI
Mean fluorescense intensity
2000
1800
1600
1400
1200
1000
800
600
400
200
0
% GFP positive
100
90
80
70
60
50
40
30
20
10
0
non transduced
MOI = 1
MOI = 10
MOI = 100
MOI = 1000

FIG 1

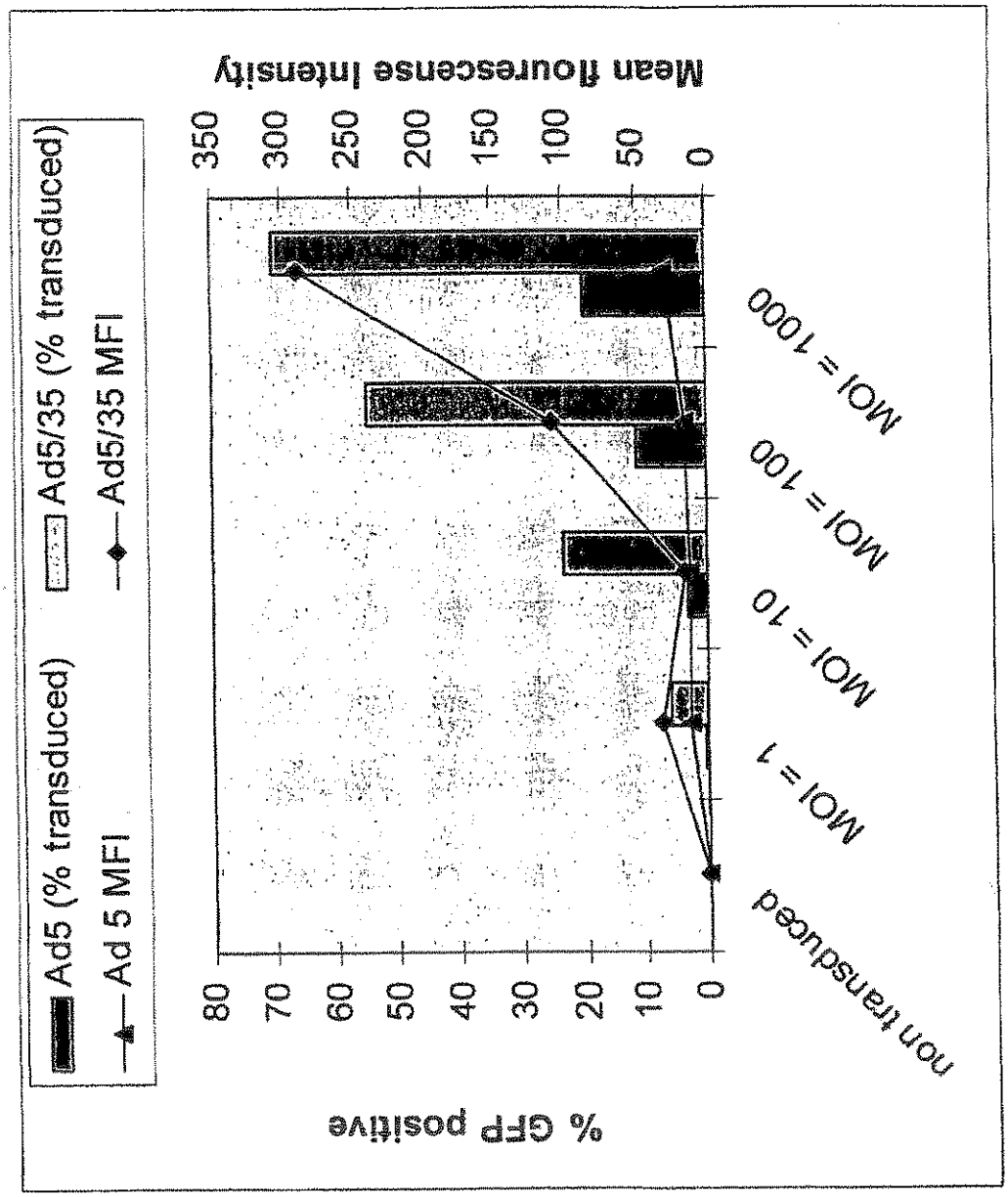

Ad5 (% transduced)
Ad5/35 (% transduced)
Ad 5 MFI
Ad5/35 MFI
% GFP positive
Mean flourescense intensity
0
10
20
30
40
50
60
70
80
0
50
100
150
200
250
300
350
non transduced
MOI = 1
MOI = 10
MOI = 100
MOI = 1000

FIG 2A

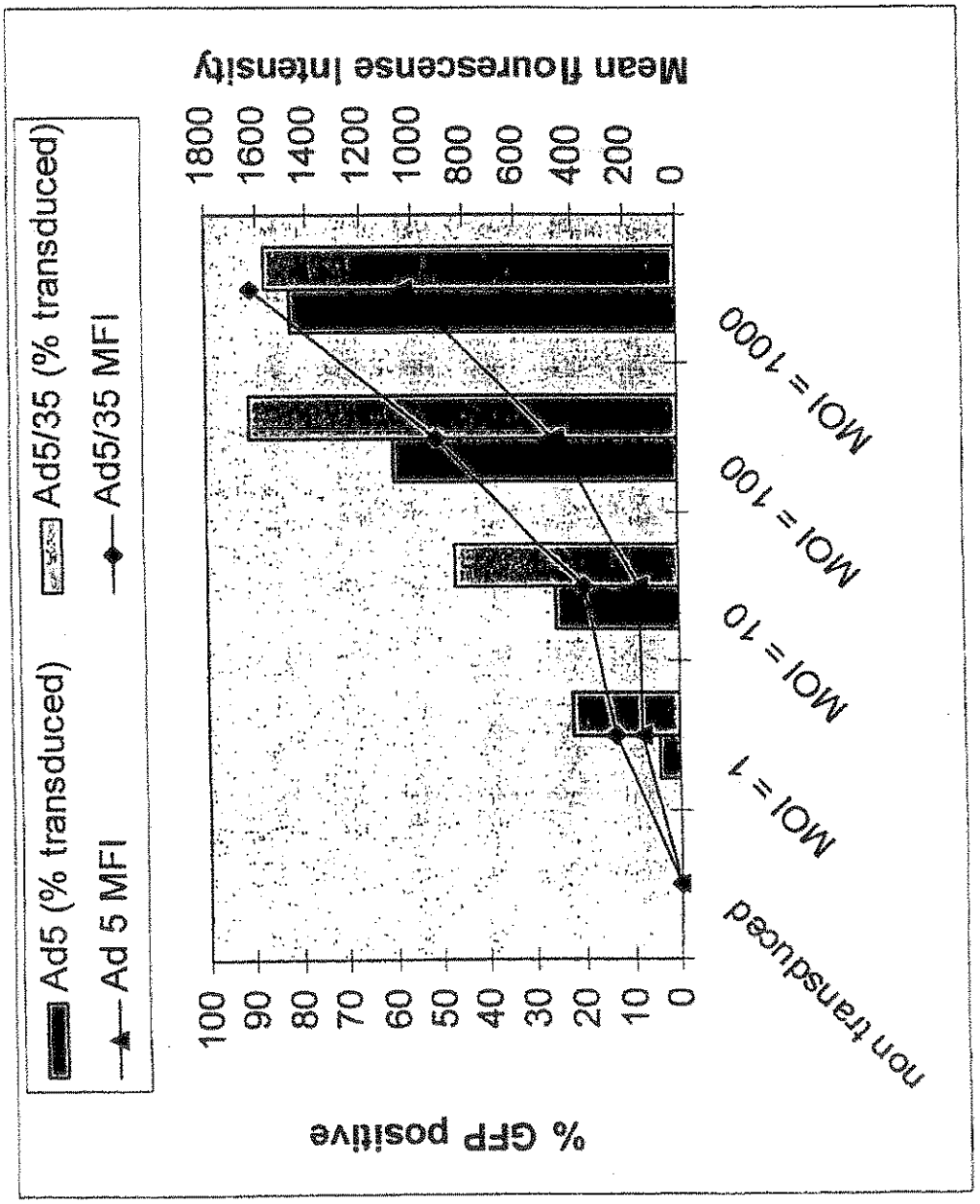

Ad5 (% transduced)
Ad5/35 (% transduced)
Ad 5 MFI
Ad5/35 MFI
% GFP positive
Mean flourescense intensity
0
10
20
30
40
50
60
70
80
90
100
0
200
400
600
800
1000
1200
1400
1600
1800
non transduced
MOI = 1
MOI = 10
MOI = 100
MOI = 1000

FIG 2B

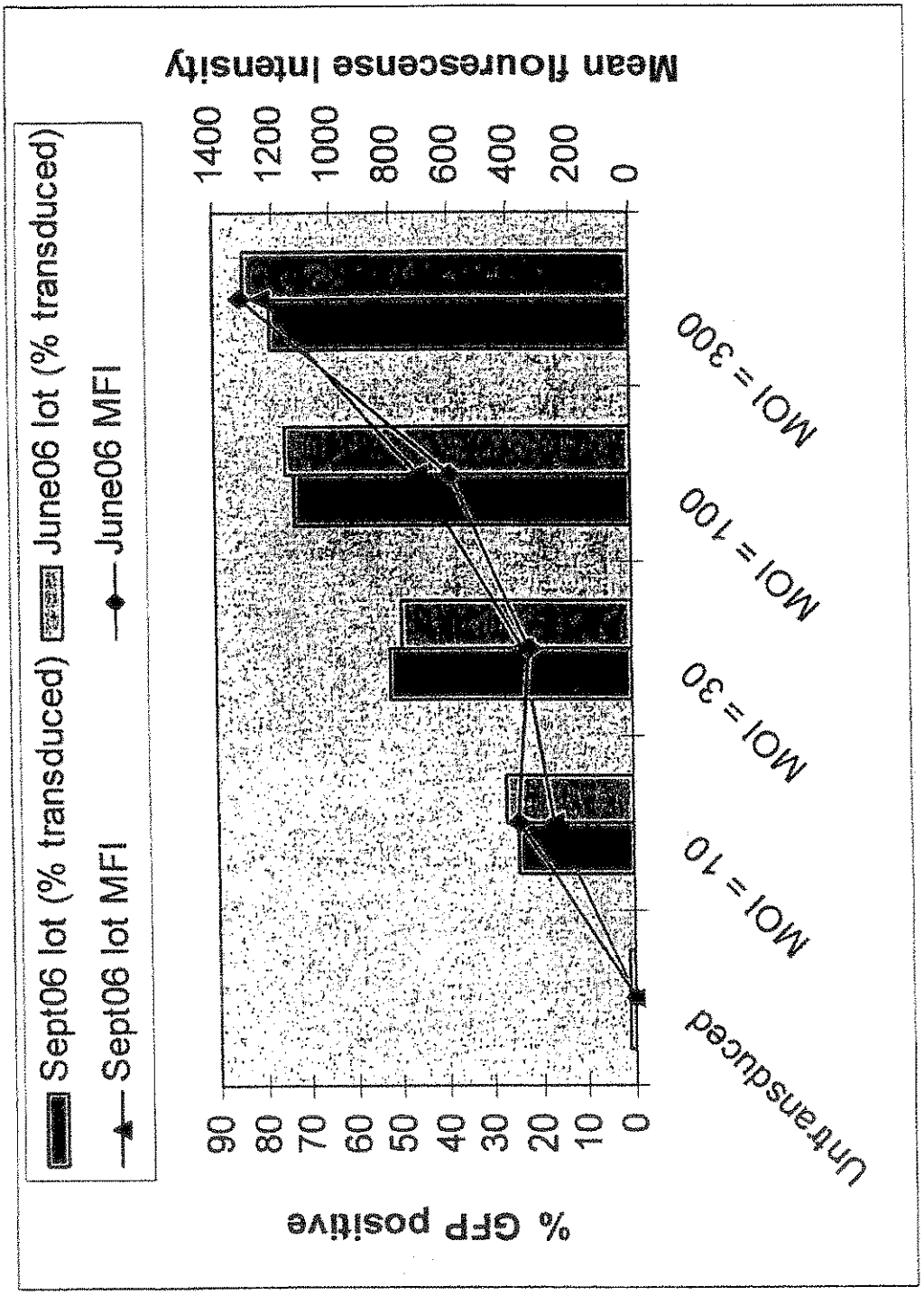

Sept06 lot (% transduced)
June06 lot (% transduced)
Sept06 lot MFI
June06 MFI
Mean flourescense intensity
1400
1200
1000
800
600
400
200
0
% GFP positive
90
80
70
60
50
40
30
20
10
0
Untransduced
MOI = 10
MOI = 30
MOI = 100
MOI = 300

FIG 3A

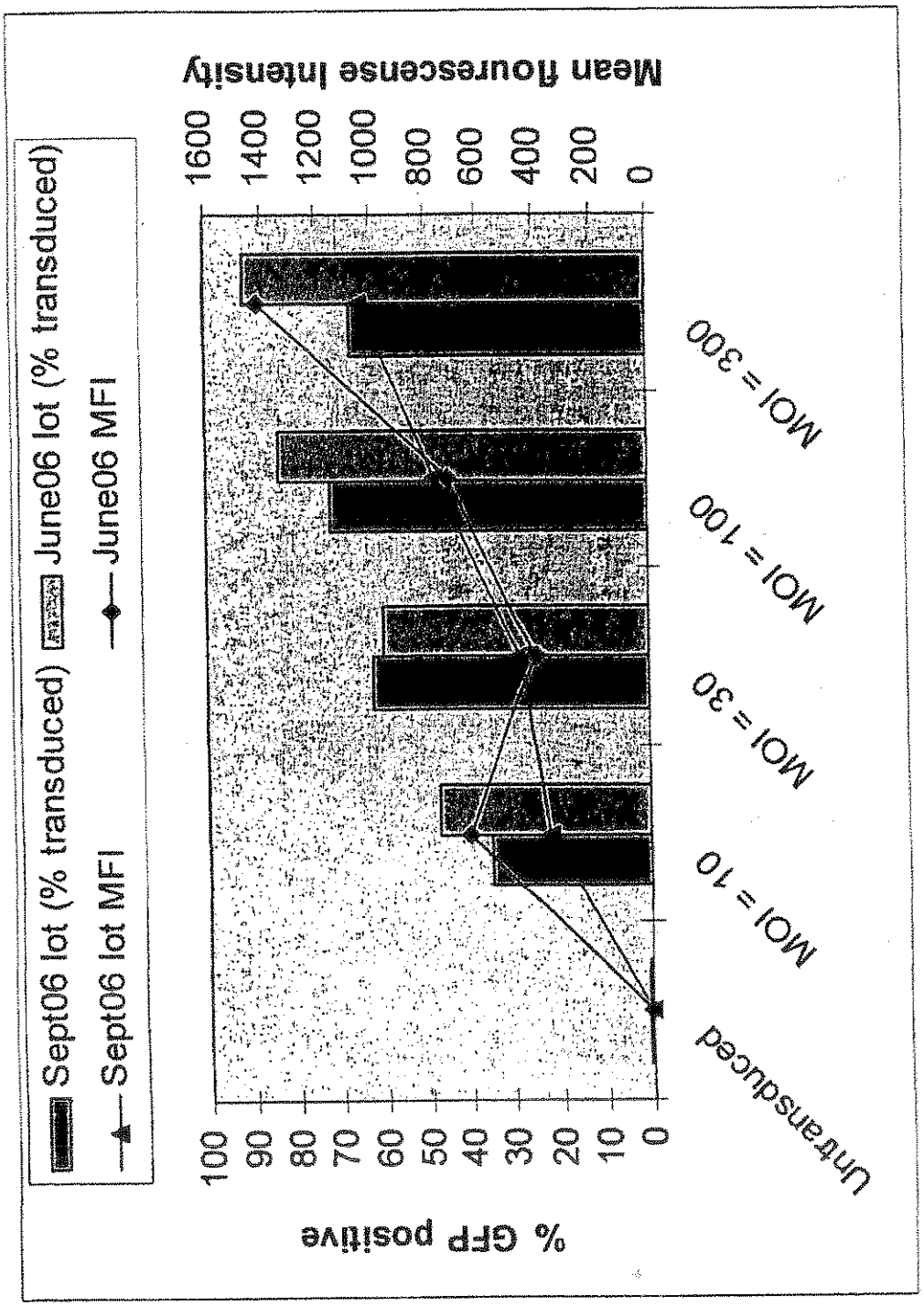

Sept06 lot (% transduced)
June06 lot (% transduced)
Sept06 lot MFI
June06 MFI
% GFP positive
Mean flourescense intensity
0
10
20
30
40
50
60
70
80
90
100
0
200
400
600
800
1000
1200
1400
1600
Untransduced
MOI = 10
MOI = 30
MOI = 100
MOI = 300

FIG 3B

Figure 4

% GFP over time at MOI 30 or 100

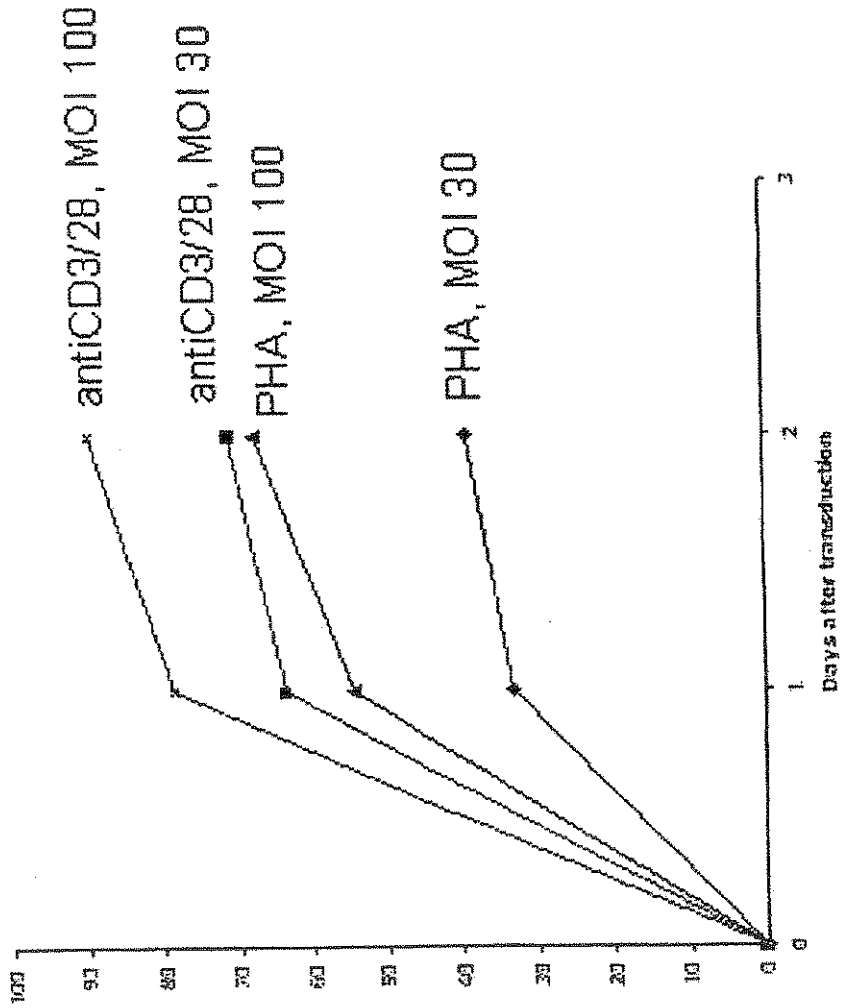
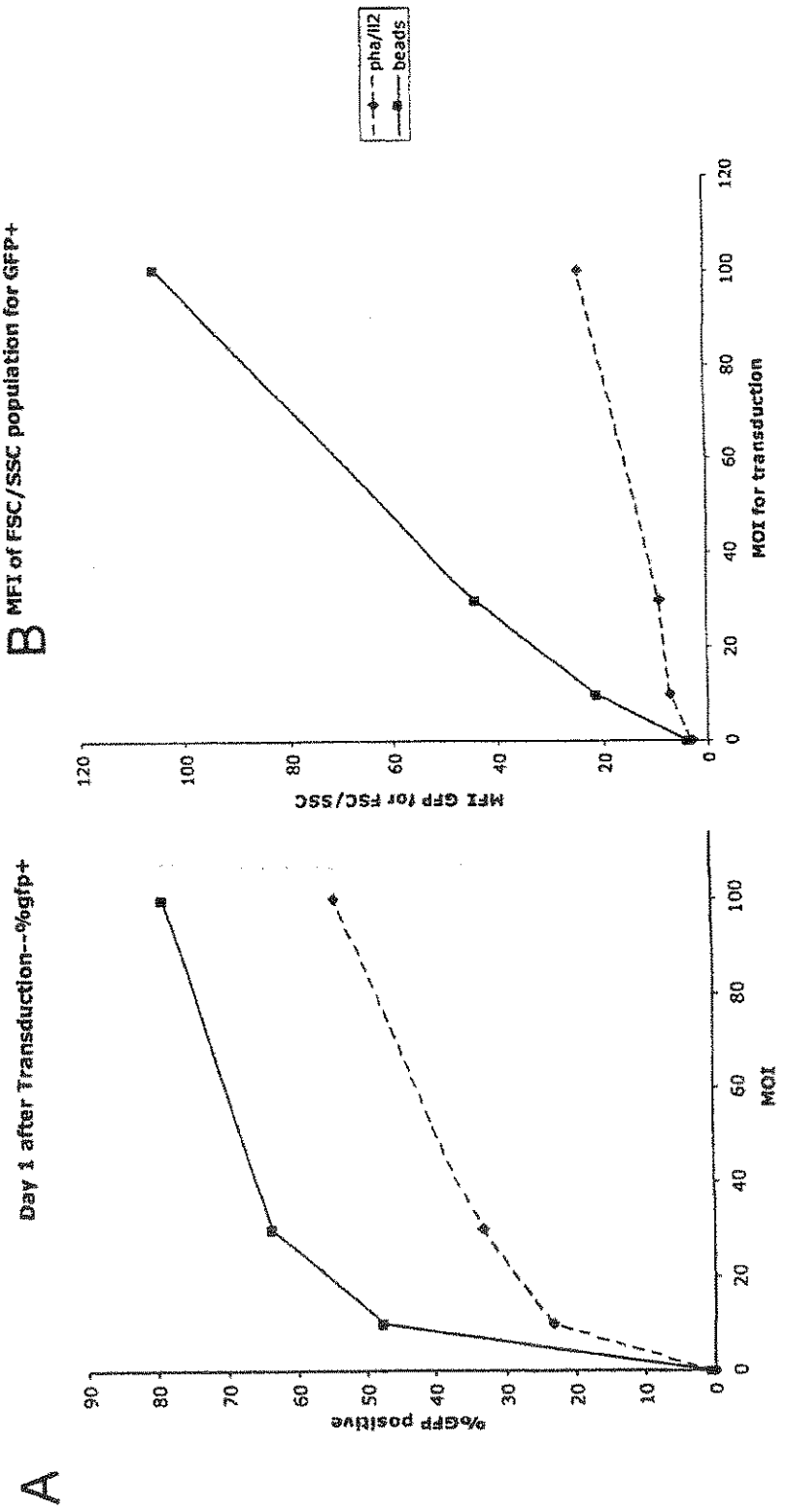


Figure 5


A
Day 1 after Transduction--%gfp+
%GFP positive
MOI
B
MFI of FSC/SSC population for GFP+
MFI GFP for FSC/SSC
MOI for transduction
pha/il2
beads

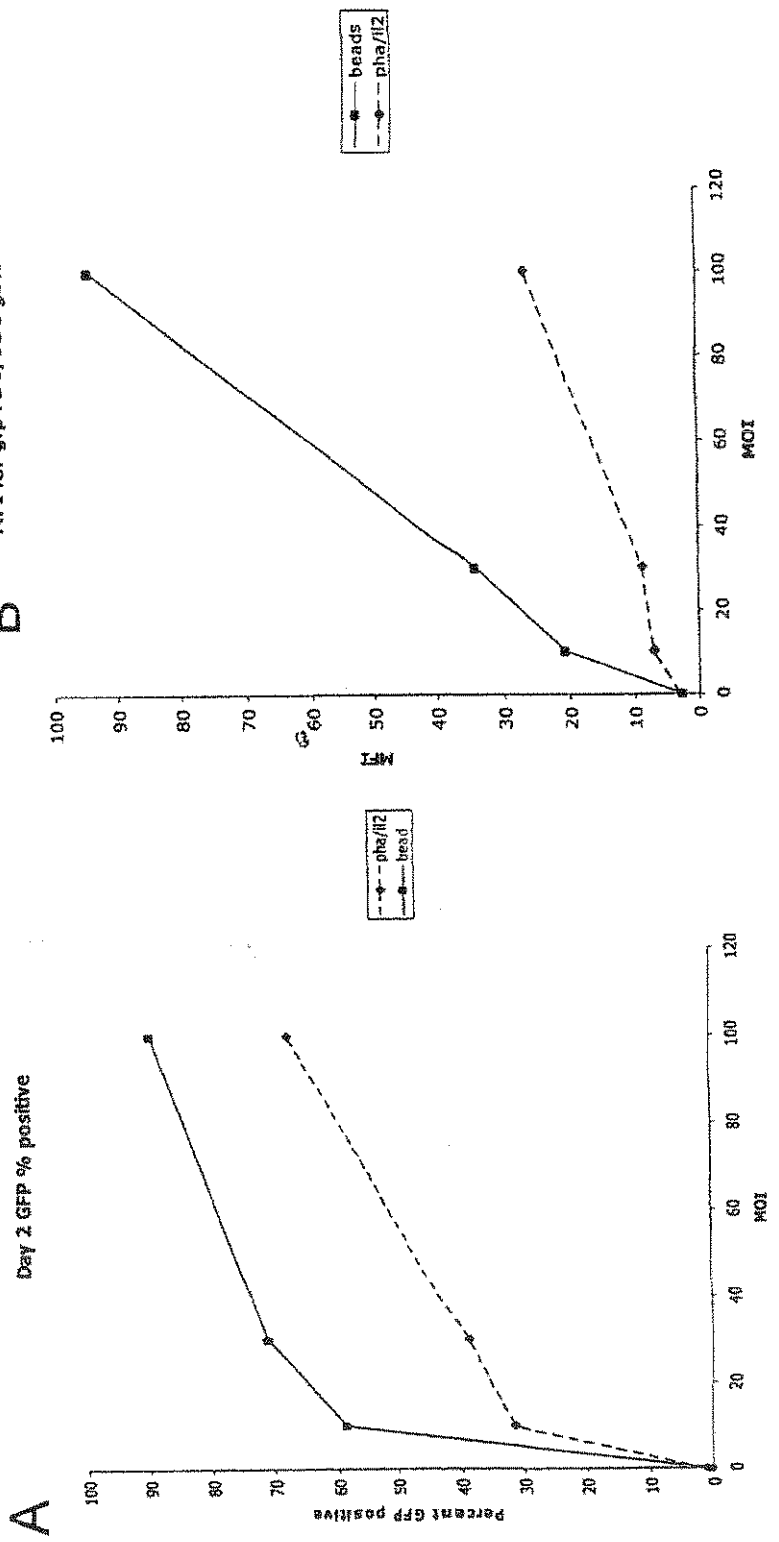

A
Day 2 GFP % positive
Percent GFP positive
MOI
pha/il2
bead
B
MFI for gfp FSC/SSC gate
MFI
MOI
beads
pha/il2

Figure 6

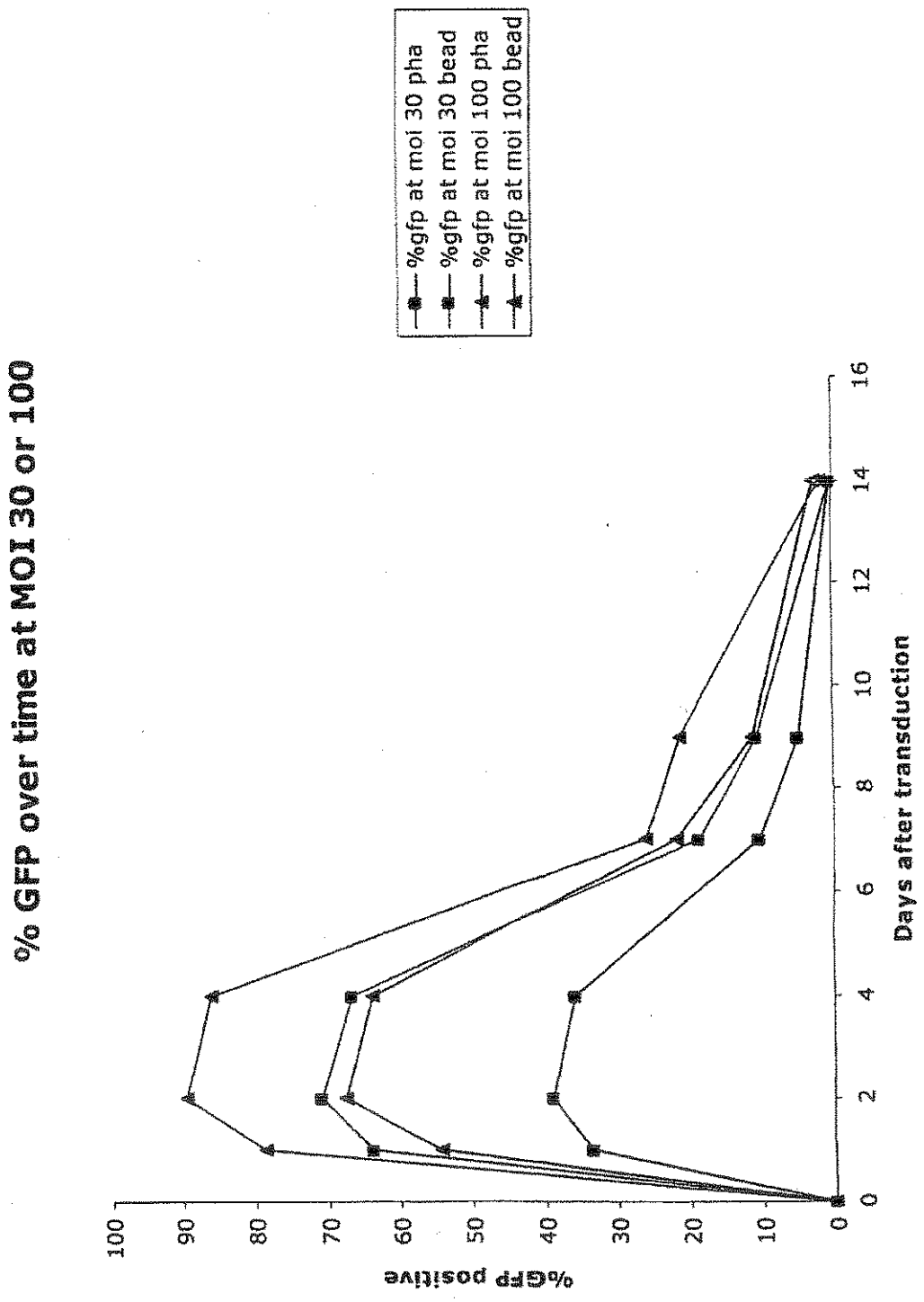

% GFP over time at MOI 30 or 100
%gfp at moi 30 pha
%gfp at moi 30 bead
%gfp at moi 100 pha
%gfp at moi 100 bead
%GFP positive
Days after transduction
0
10
20
30
40
50
60
70
80
90
100
0
2
4
6
8
10
12
14
16

Figure 7

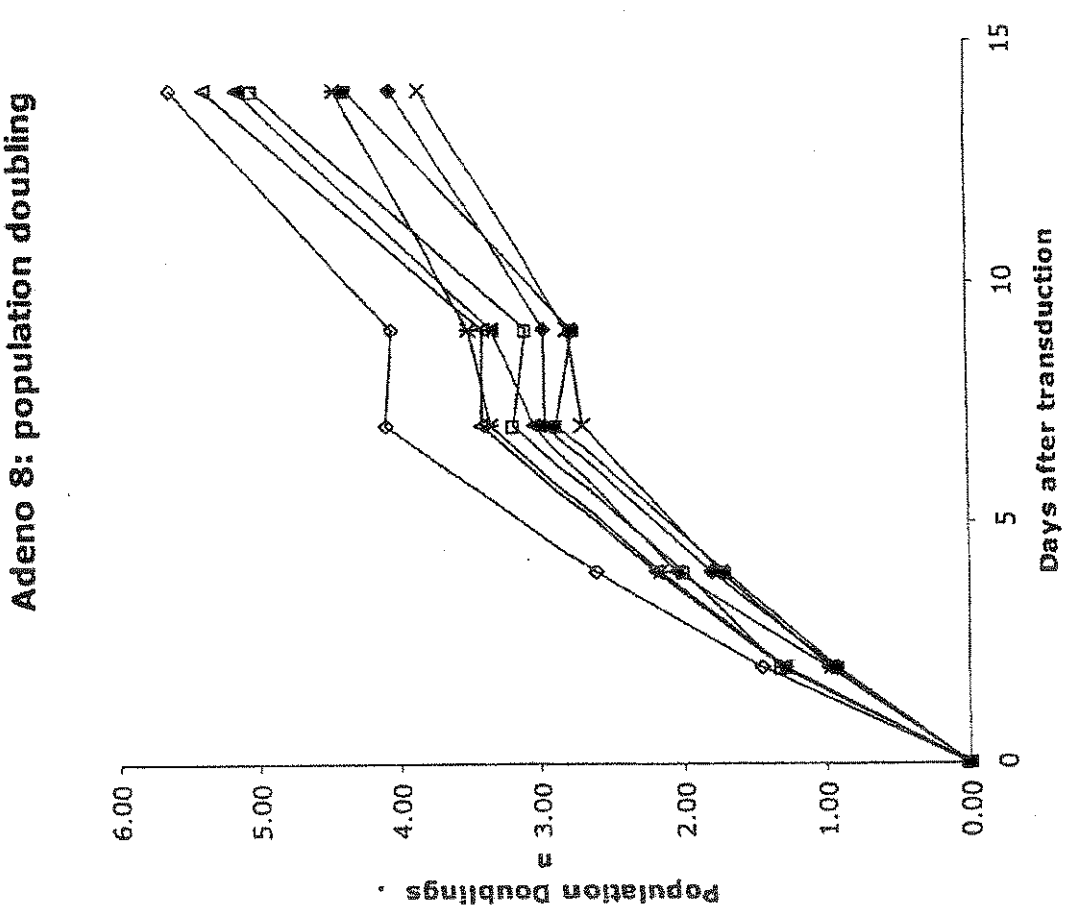
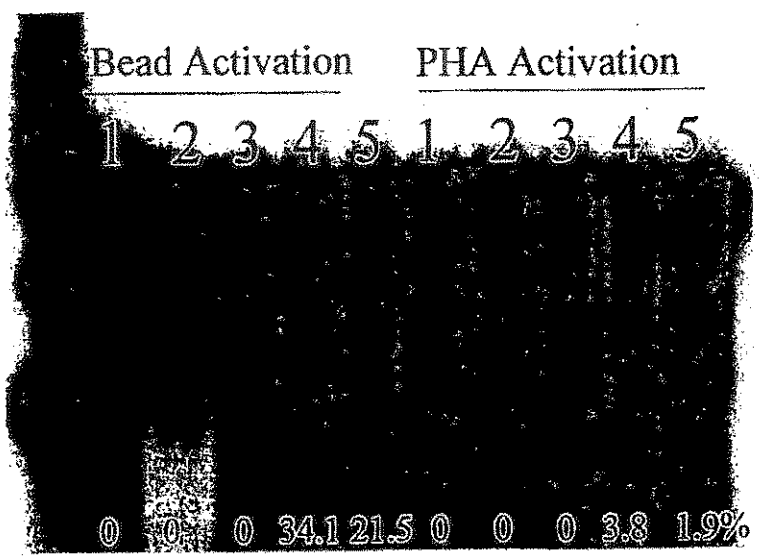

Adeno 8: population doubling
Population Doublings
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
5
10
15
Days after transduction
PHA 0
PHA 10
PHA 30
PHA 100
BEADS 0
BEADS 10
BEADS 30
BEADS 100

Figure 8

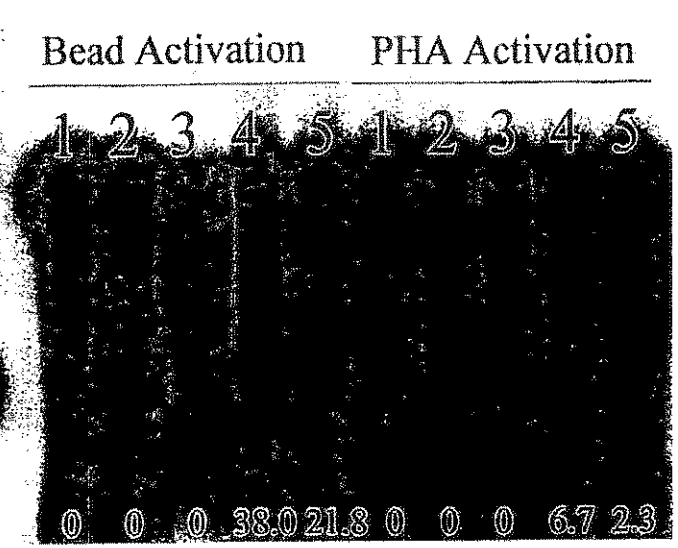
Figure 9

AD5/F35 CCR5-ZFN Efficacy in Bead vs PHA Activation

A Day 2 Post-transduction



B Day 5 Post-transduction



Sample Key

1 Non-transduced
2 GFP
3 IL2Rg-ZFNs
4 CCR5-215
5 CCR5-224