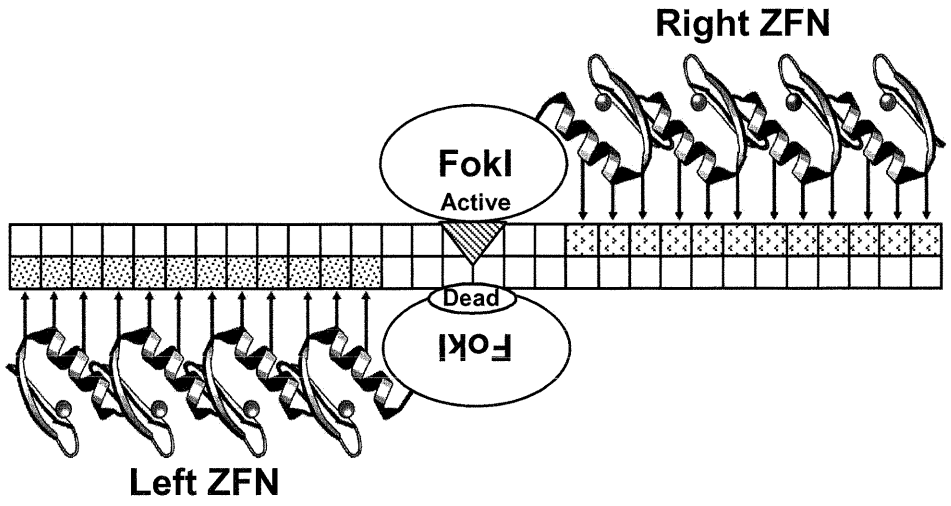


Fig. 1

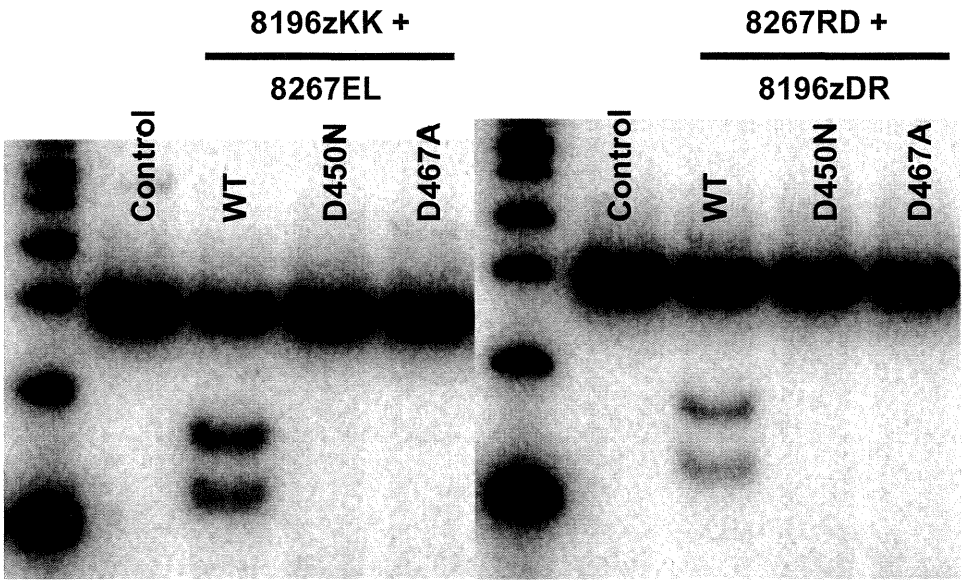

8196zKK +
8267EL
Control
WT
D450N
D467A
8267RD +
8196zDR
Control
WT
D450N
D467A

Fig. 2A

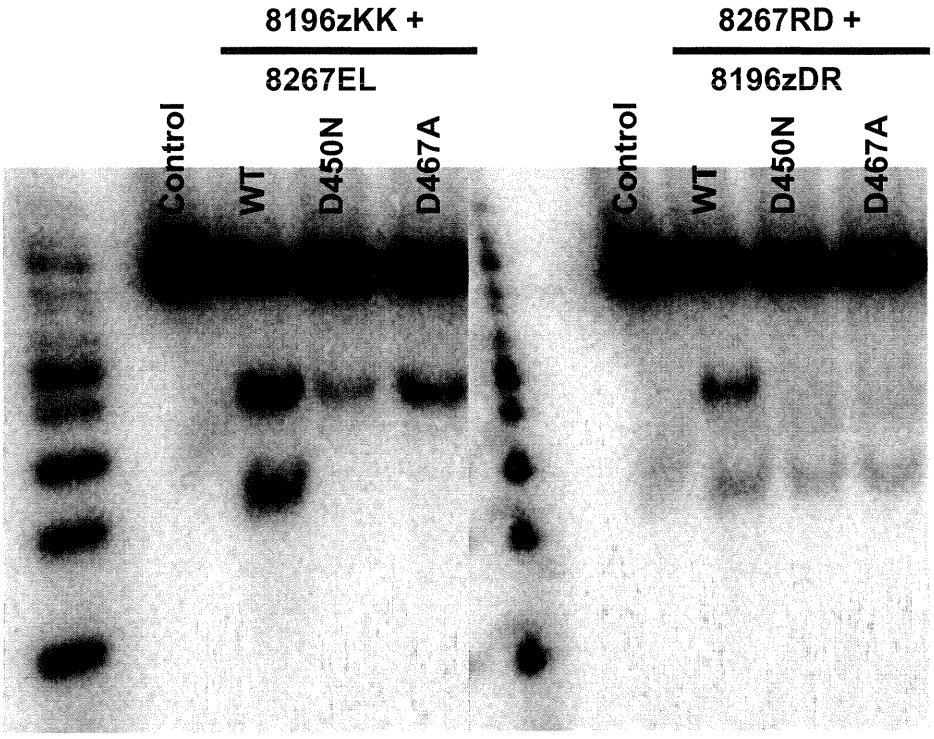

8196zKK +
8267EL
Control
WT
D450N
D467A
8267RD +
8196zDR
Control
WT
D450N
D467A

Fig. 2B

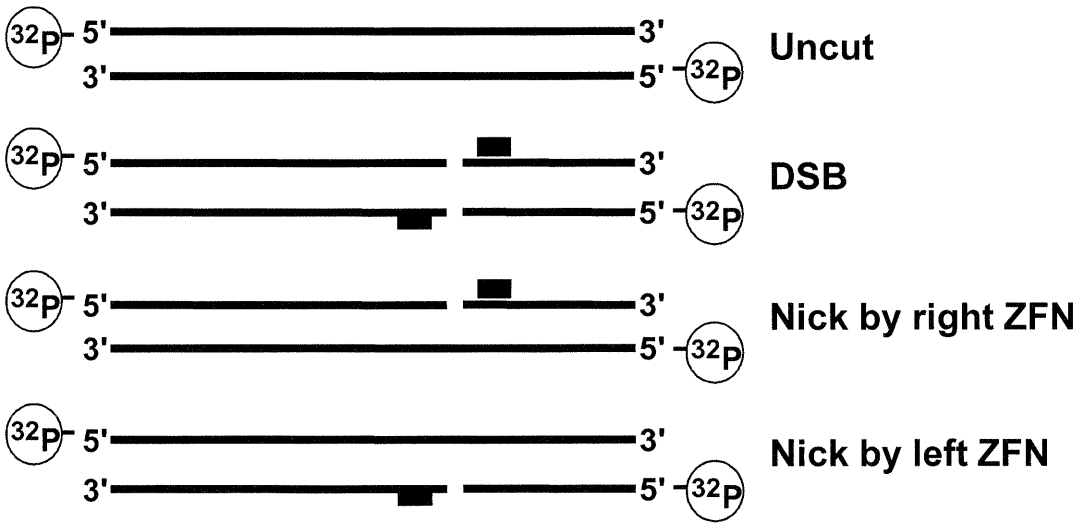

32P
5'
3'
3'
5'
32P
Uncut
32P
5'
3'
3'
5'
32P
DSB
32P
5'
3'
3'
5'
32P
Nick by right ZFN
32P
5'
3'
3'
5'
32P
Nick by left ZFN

Fig. 2C

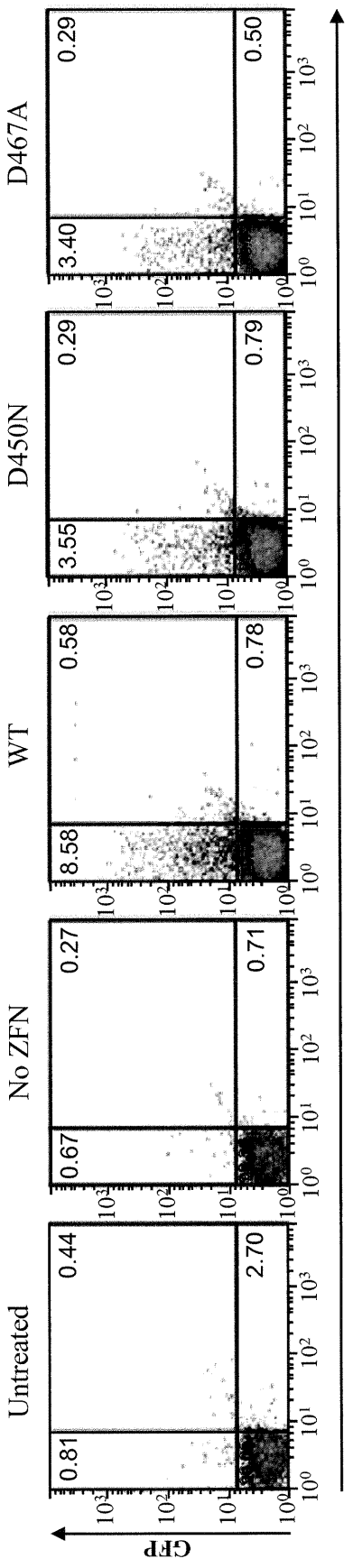


Fig. 3A Fig. 3B Fig. 3C Fig. 3D Fig. 3E

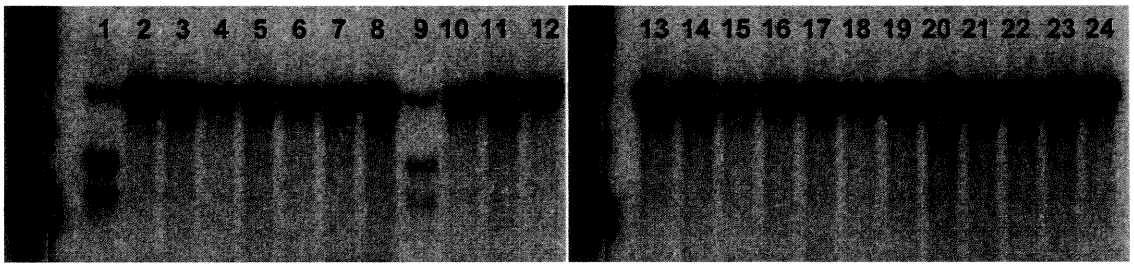


Fig. 4A

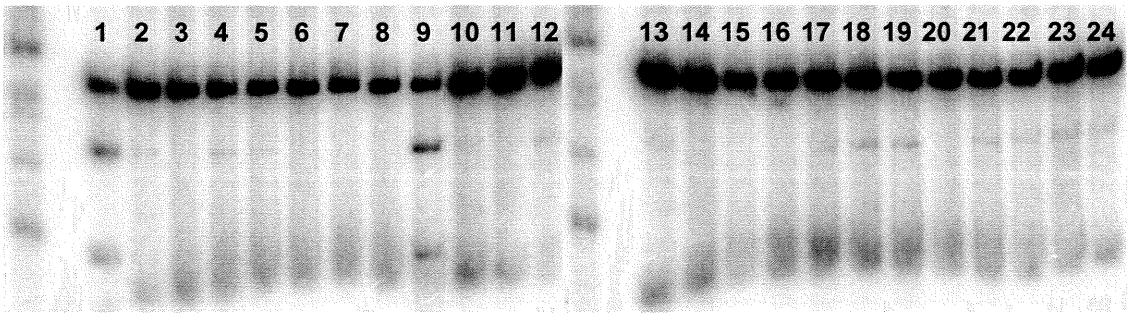


Fig. 4B

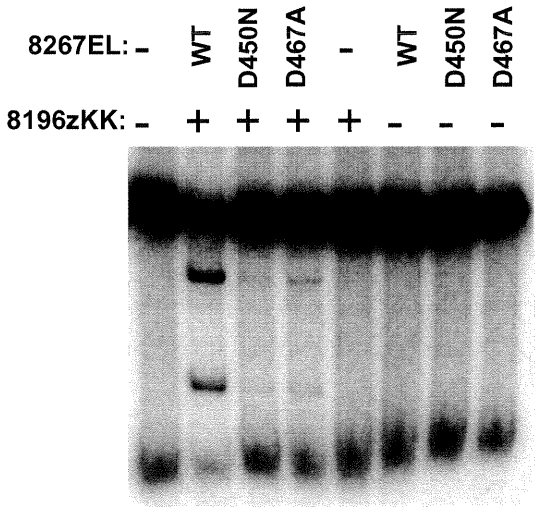


Fig. 4C

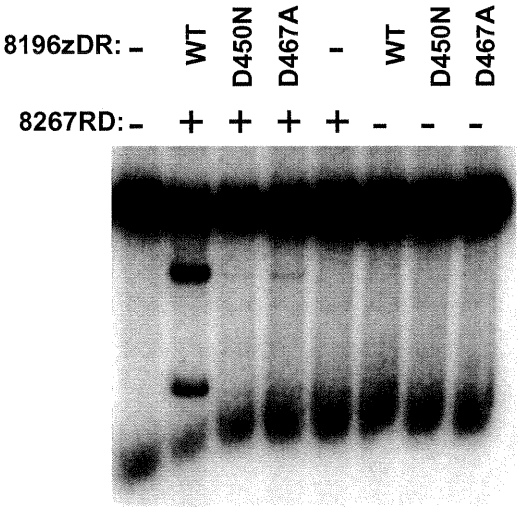


Fig. 4D

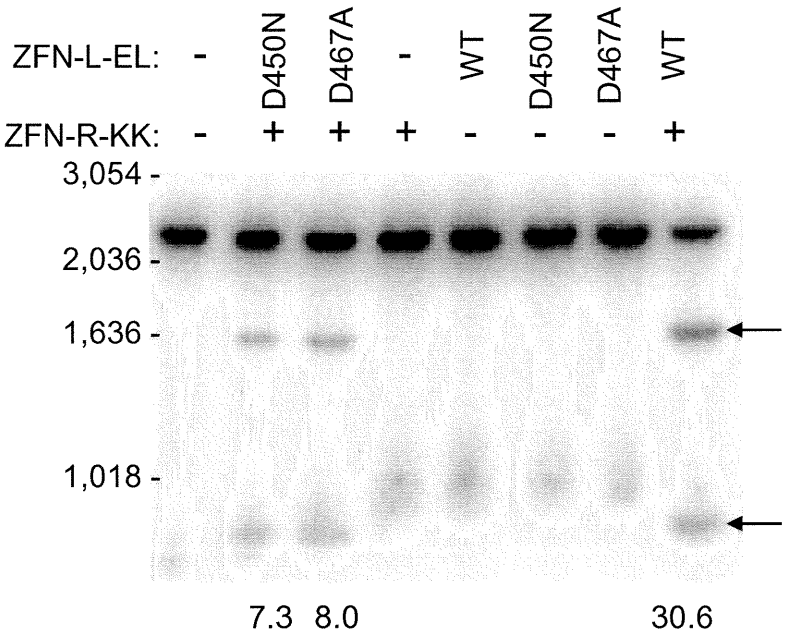

ZFN-L-EL:
-
+ D450N
+ D467A
-
WT
- D450N
- D467A
WT
ZFN-R-KK:
-
+
+
+
-
-
-
+
3,054 -
2,036 -
1,636 -
1,018 -
7.3
8.0
30.6

Fig. 5A

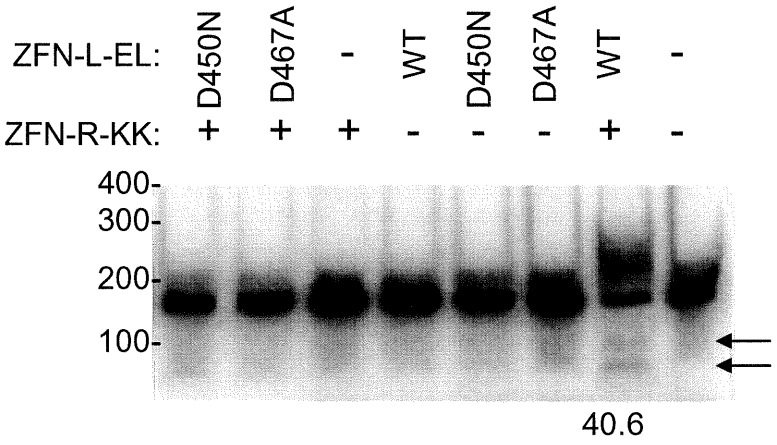

ZFN-L-EL:
+ D450N
+ D467A
-
WT
- D450N
- D467A
WT
-
ZFN-R-KK:
+
+
+
-
-
-
+
-
400-
300-
200-
100-
40.6

Fig. 5B

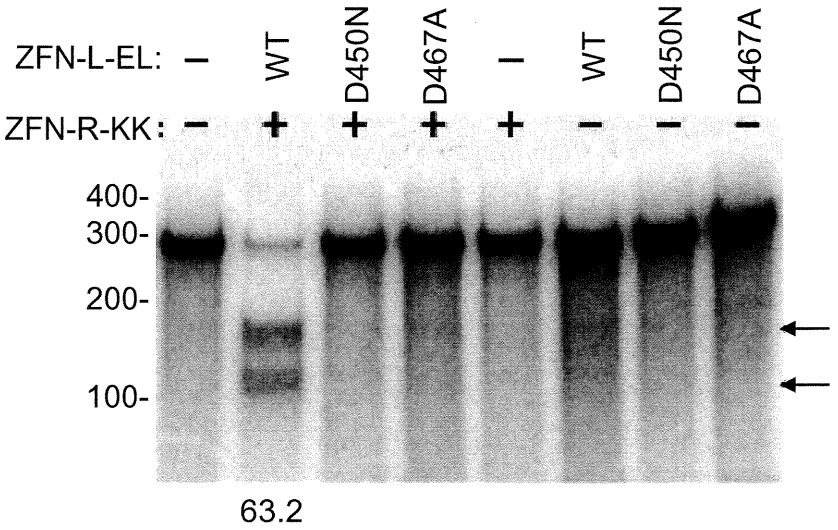

ZFN-L-EL: – WT D450N D467A – WT D450N D467A
ZFN-R-KK: – + + + + – – –
400-
300-
200-
100-
63.2

Fig. 6A

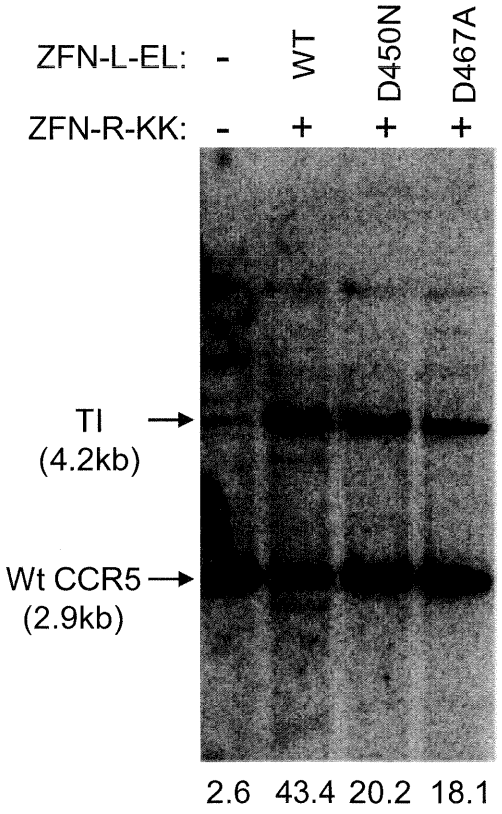

ZFN-L-EL: - WT D450N D467A
ZFN-R-KK: - + + +
TI
(4.2kb)
Wt CCR5
(2.9kb)
2.6 43.4 20.2 18.1

Fig. 6B

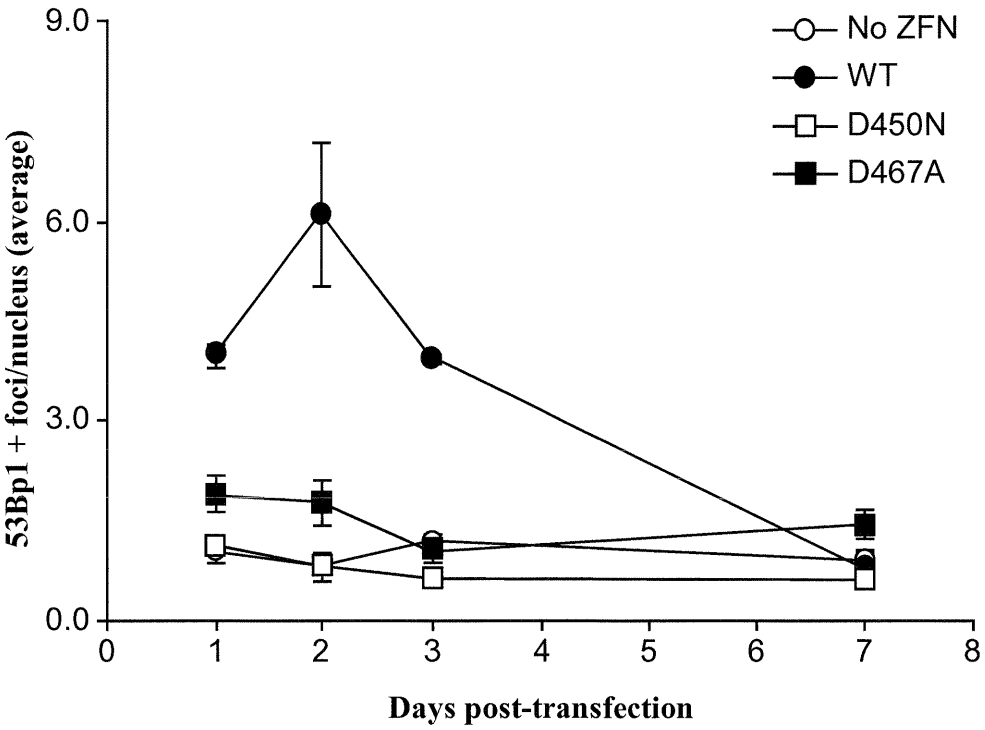

9.0
6.0
3.0
0.0
53Bp1 + foci/nucleus (average)
0
1
2
3
4
5
6
7
8
Days post-transfection
No ZFN
WT
D450N
D467A

Fig. 7

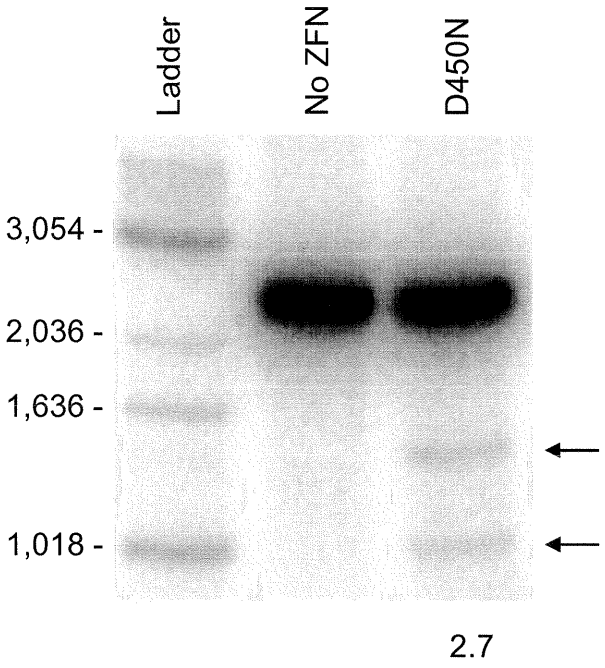


Fig. 8