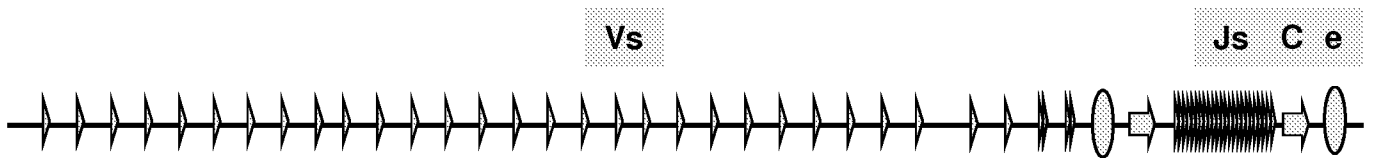


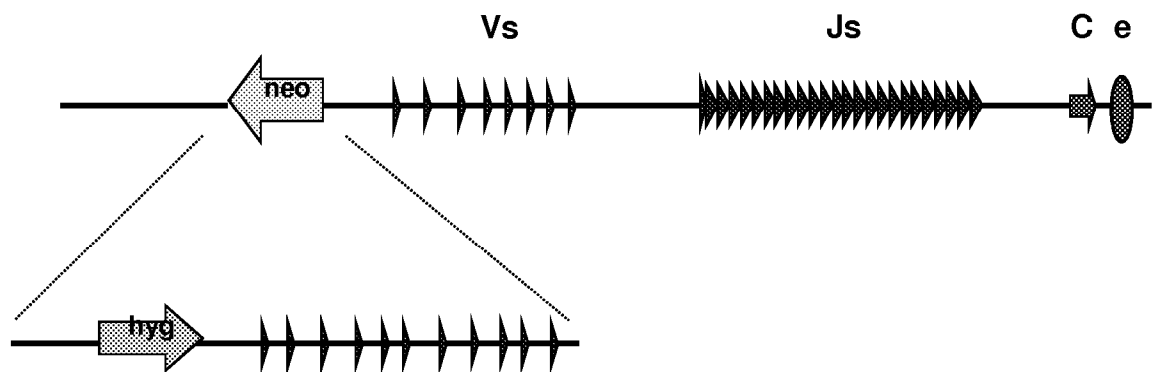
**Figure 1**

Mouse T-cell receptor alpha locus (chr. 14a)



Humanized TCR $\alpha$  A-neo allele (chr. 14b)

8 Vs & 61 Js



Humanized TCR $\alpha$  allele B-hyg targeting vector

11 additional Vs

↓ Electroporation + neo ZFN

Mouse T-cell receptor alpha locus (chr. 14a)



Humanized TCR $\alpha$  B-hyg allele (chr. 14b)

19 Vs & 61 Js

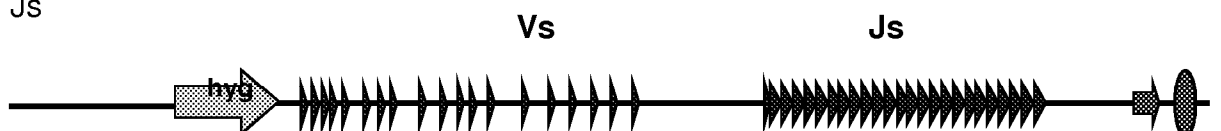
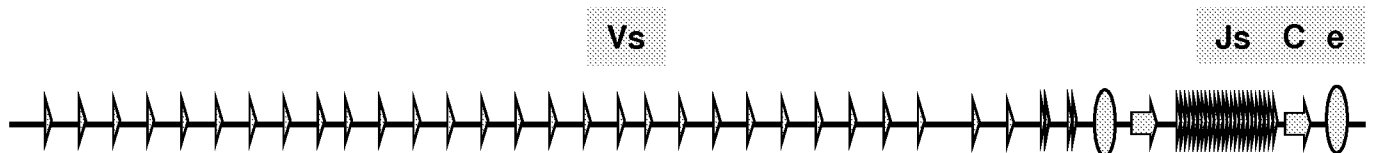


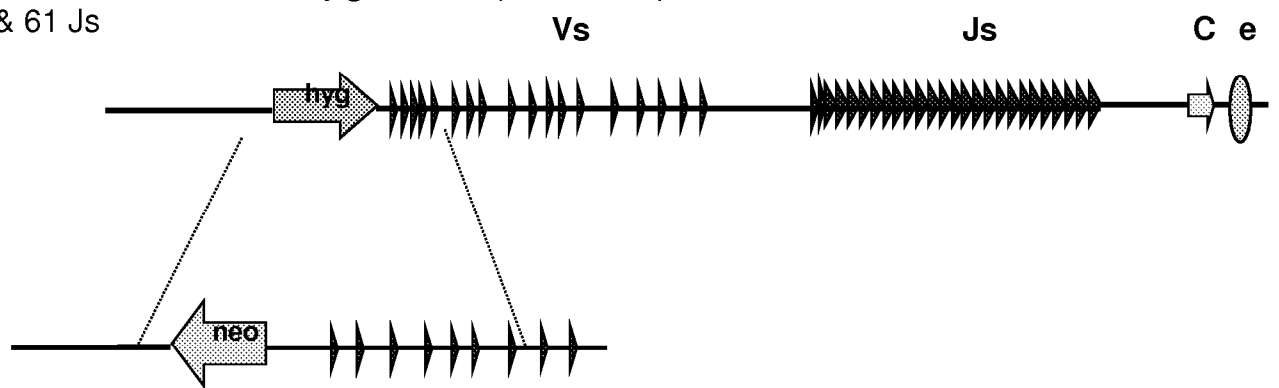
**Figure 2**

Mouse T-cell receptor alpha locus (chr. 14a)



Humanized TCR $\alpha$  B-hyg allele (chr. 14b)

19 Vs & 61 Js



Humanized TCR $\alpha$  allele C-neo targeting vector

11 additional Vs

↓ Electroporation + hyg ZFN

Mouse T-cell receptor alpha locus (chr. 14a)



Humanized TCR $\alpha$  C-neo allele (chr. 14b)

30 Vs & 61 Js

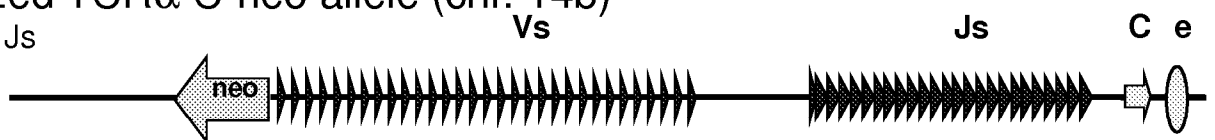
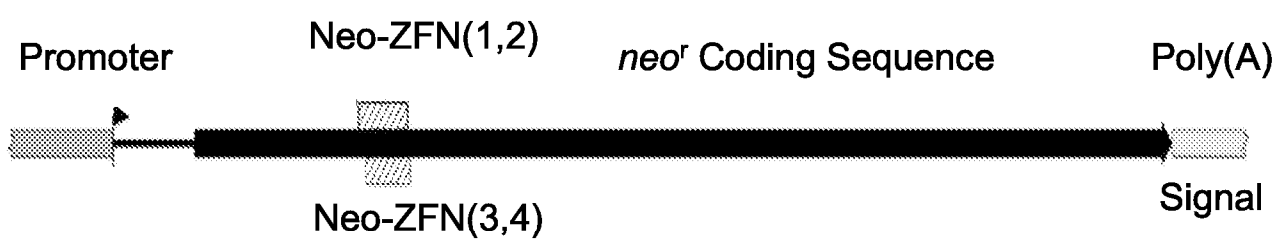


**Figure 3****A****B**