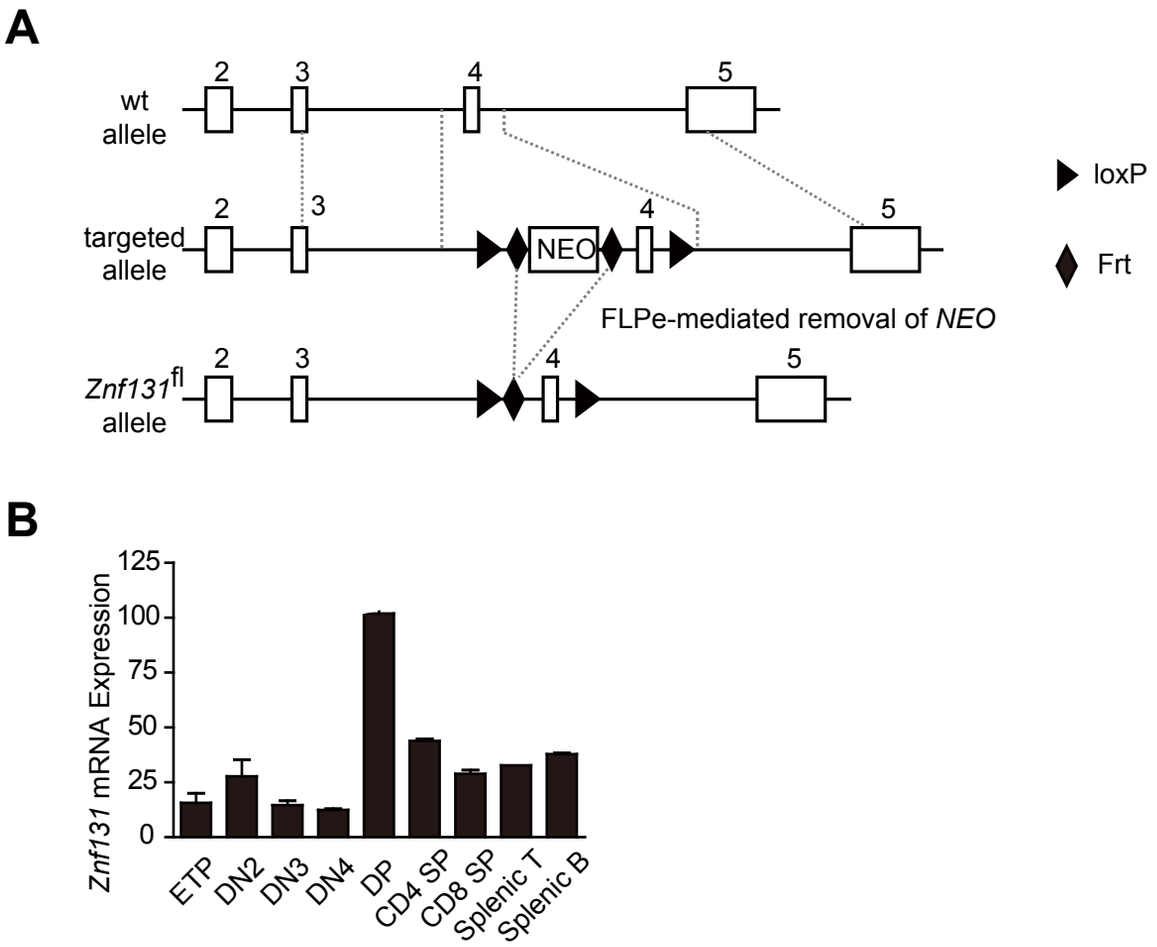
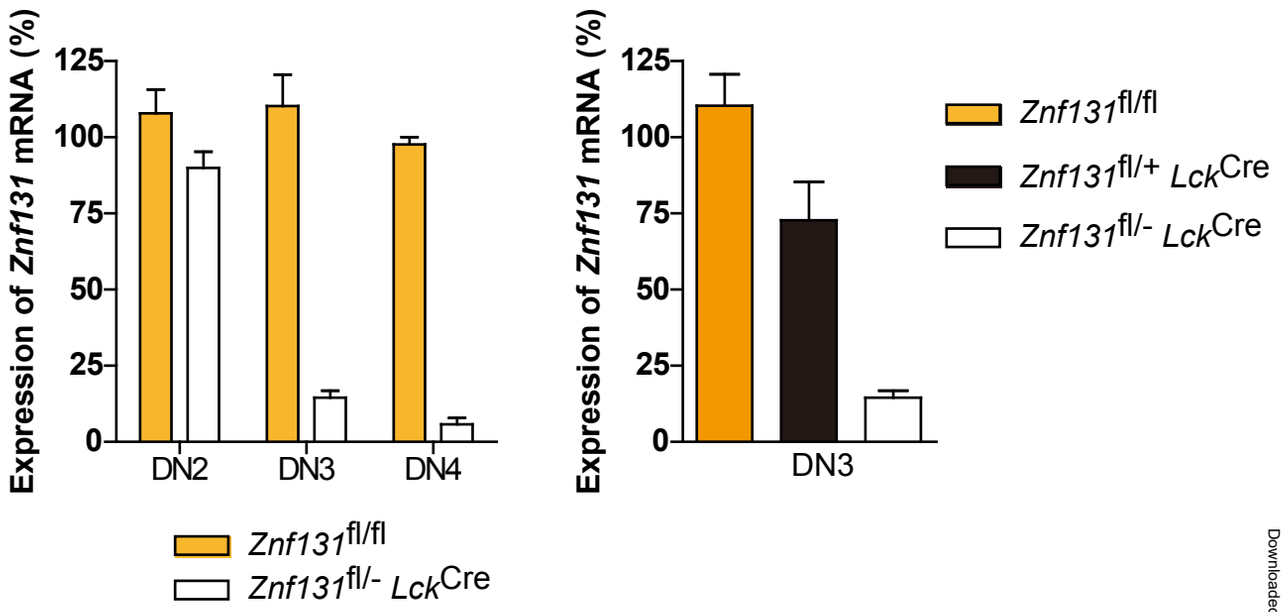


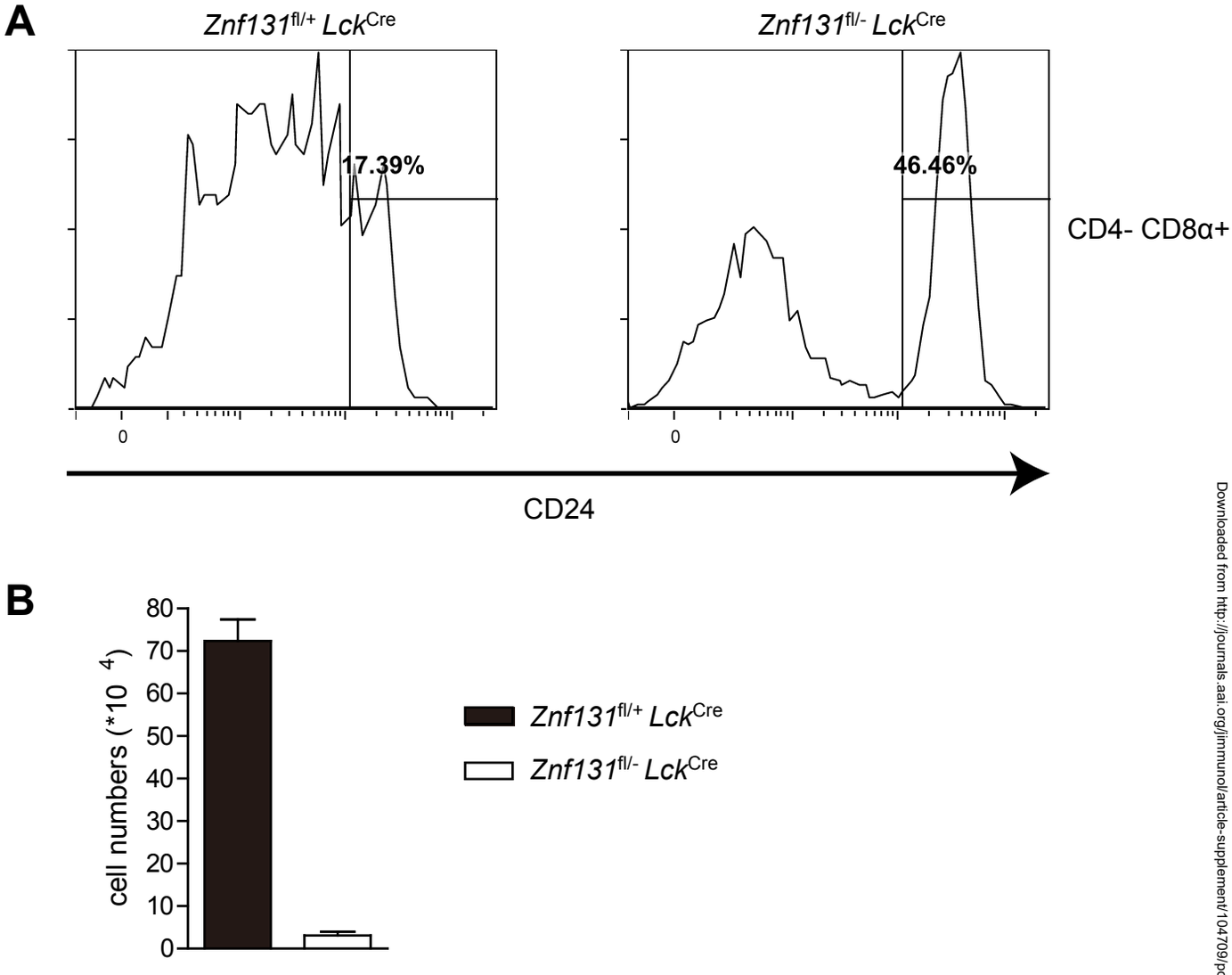
Supplemental Figure 1. Generation of a conditional allele

(A) Schematic representation of the targeting strategy. Shown are the genomic loci of the murine Znf131 gene, the targeting constructs, the targeted genomic loci after homologous recombination and the resulting conditional alleles (white box ; translated exons).

(B) ETP (Lin-CD117+CD25-), DN2 (Lin-CD117+CD25+), DN3 (Lin-CD117-CD25+), DN4 (Lin-CD117-CD25-), DP(CD4+CD8+), CD4 SP(CD4+CD8-) and CD8 SP(CD4-CD8+) thymocytes were isolated by flow cytometry. mRNA was generated and examined by qRT-PCR. Normalized values to Hprt levels are shown. Data are the mean ±SD from 3 independent experiments.



Supplemental Figure 2. qRT-PCR analysis of Znf131 mRNA expression of DN subpopulations. mRNA from sorted *Znf131*$^{fl/+}$ *Lck*^{Cre}, *Znf131*$^{fl/-}$ *Lck*^{Cre} and control thymocyte population were examined by qRT-PCR for the presence of the wild Znf131 mRNA, with reverse PCR primer that annealed Znf131 exon4.



Supplemental Figure 3. The number of ISP was decreased in Znf131 deficient thymocytes.
(A) $CD4^-$ $CD8^+$ thymocytes from *Znf131*$^{fl/-}$ *Lck*^{Cre} and control mice were examined for surface expression of CD24. Data are representative of two experiments.
(B) Absolute number of ISP($CD4^-CD8^+CD24^{high}$) cells from *Znf131*$^{fl/-}$ *Lck*^{Cre} and control mice were calculated. Data are the mean ±SD.

Table S1. Surface markers for the Progenitor populations

	Population	Markers	Lineage
Thymus	ETP	Lin^- $CD117^{high}$ $CD25^-$	CD3ε, CD8α, TCRβ, TCRγδ, NK1.1, Dx5, Ter119, CD11c, CD11b, B220, CD19, Gr-1
	DN2	Lin^- $CD117^{high}$ $CD25^+$	
	DN3	Lin^- $CD117^-$ $CD25^+$	
	DN4	Lin^- $CD117^-$ $CD25^-$	
	DP	$CD4^+$ $CD8\alpha^+$	-
	CD4 SP	$CD4^+$ $CD8\alpha^-$	
	CD8 SP	$CD4^-$ $CD8\alpha^+$	
Spleen	CD4 Naïve	$CD4^+$ $CD8\alpha^-$ $CD44^{low}$ $CD62L^+$	
	CD4 Memory	$CD4^+$ $CD8\alpha^-$ $CD44^{low}$ $CD62L^+$	
	CD8 Naïve	$CD4^+$ $CD8\alpha^-$ $CD44^{low}$ $CD62L^+$	
	CD8 Memory	$CD4^+$ $CD8\alpha^-$ $CD44^{low}$ $CD62L^+$	

Antibody clones :
CD3ε (145-2C11), CD4 (GK1.5), CD8α (53-6.7), TCRβ (H57-597), TCRγδ (GL3), NK1.1 (PK136), Dx5 (DX5), Ter119 (TER-119), CD11c (N418), CD11b (M1/70), B220 (RA3-6B2), CD19 (6D5), Gr-1 (RE6-8C5), CD117 (2B8), CD25 (PC61), CD127 (A7R34), CD27 (LG.3A10), CD44(IM7), CD62L(MEL-14), CD69(H1.2F3), Qa-2(695H1-9-9).