Supplemental Figure 1

(A) Total bilirubin and unconjugated bilirubin levels in different genotypes:
- Bclx^fl/fl (untreated)
- Bclx^fl/fl (TAM)
- Bclx^fl/fl;RosaCreERT2

Levels (μmol/L):
- Total bilirubin: Bclx^fl/fl (untreated) = 50, Bclx^fl/fl (TAM) = 100, Bclx^fl/fl;RosaCreERT2 = 0
- Unconjugated bilirubin: Bclx^fl/fl (untreated) = 0, Bclx^fl/fl (TAM) = 50, Bclx^fl/fl;RosaCreERT2 = 100

Significance:
- p = 0.040
- p = 0.026

(B) Enzyme activity levels:
- ALKP, LDH, Albumin, AST, ALT, AST/ALT ratio

Levels (U/L):
- ALKP: Bclx^fl/fl (untreated) = 100, Bclx^fl/fl (TAM) = 200, Bclx^fl/fl;RosaCreERT2 = 300
- LDH: Bclx^fl/fl (untreated) = 500, Bclx^fl/fl (TAM) = 1000, Bclx^fl/fl;RosaCreERT2 = 1500
- Albumin: Bclx^fl/fl (untreated) = 10, Bclx^fl/fl (TAM) = 20, Bclx^fl/fl;RosaCreERT2 = 30
- AST: Bclx^fl/fl (untreated) = 100, Bclx^fl/fl (TAM) = 200, Bclx^fl/fl;RosaCreERT2 = 300
- ALT: Bclx^fl/fl (untreated) = 50, Bclx^fl/fl (TAM) = 100, Bclx^fl/fl;RosaCreERT2 = 150
- AST/ALT ratio: Bclx^fl/fl (untreated) = 40, Bclx^fl/fl (TAM) = 80, Bclx^fl/fl;RosaCreERT2 = 120

Significance:
- p < 0.001
- p = 0.022
Supplemental Figure 2

A

Day 0 | Day 1 | Day 2
---|---|---
RosaCreERT2
Bclx$^{fl/fl}$, RosaCreERT2

B

normal reticulocyte

C

red blood cells

\[
\text{count (10}^9 \text{cells/mL)}
\]

wt | RosaCreERT2$^{K/+}$ | Bclx$^{fl/fl}$, RosaCreERT2$^{K/+}$
---|---|---
\[\text{p < 0.0001}\] | \[\text{p < 0.0001}\] | ns
Supplemental Figure 3

A. Stem/progenitor compartment

number of cells per femur

La-HSC  ST-HSC  MPP  CMP  GMP  MEP

p = 0.033

B. Count CFU-e

BM (per femur)  Spleen (total)

Bclx^{flo/flo};RosaCreERT2  Bclx^{flo/flo}
Supplemental Figure 4

**Bone Marrow**

- **Bclx^fl/fl**
- **Bclx^fl/fl; RosaCreERT2**

**Spleen**

- **Bclx^fl/fl**
- **Bclx^fl/fl; RosaCreERT2**

% of Ter119+ (GFP-DUMP-)

![Graphs showing percentage of Ter119+ cells with CD44 and FSC markers for bone marrow and spleen, with and without RosaCreERT2 tagging.](image-url)
Supplemental Figure 5

RosaCreERT2

Bclx<sup>fl/fl</sup>, RosaCreERT2