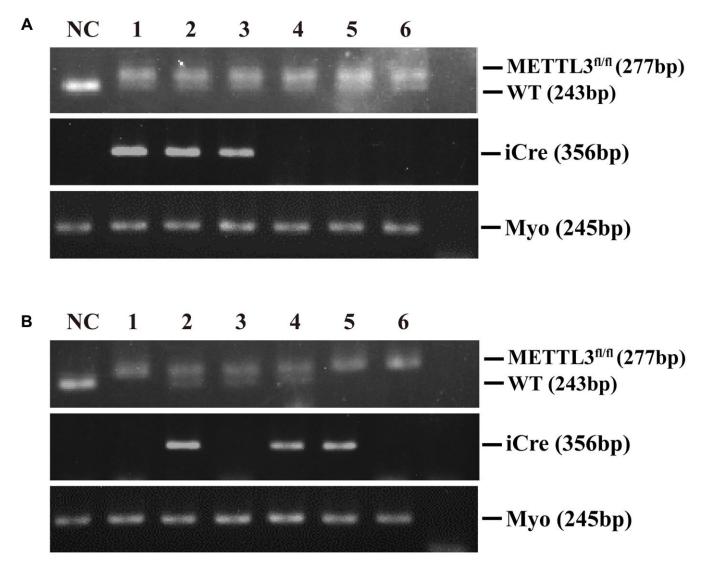
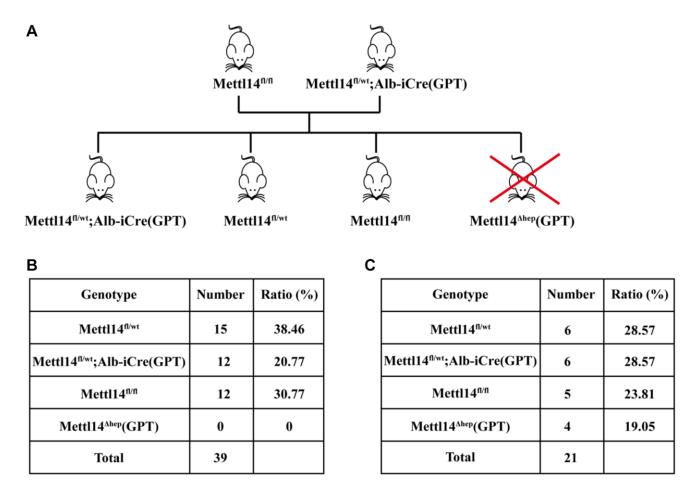
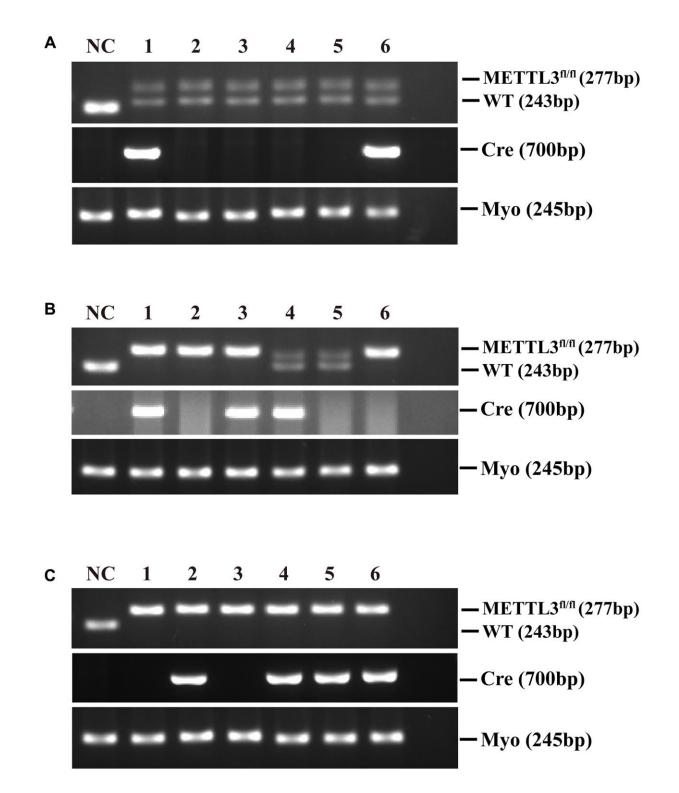
## SUPPLEMENTARY FIGURES



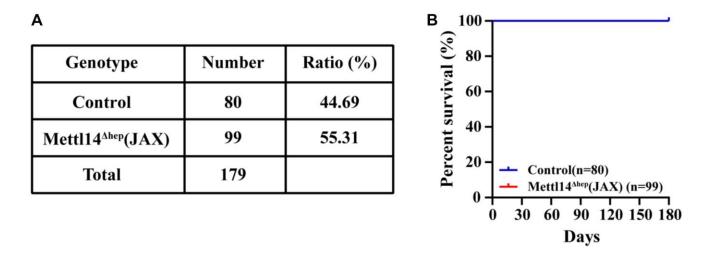
**Supplementary Figure 1. PCR-based genotyping of hepatocyte-specific METTL3 homozygous knockout (METTL3<sup>Δhep</sup>) mice by Alb-iCre mice (GPT).** (A) PCR-based genotyping displays the offspring with indicated genotypes from intercrossing METTL3<sup>fl/fl</sup> mice and Alb-iCre (GPT) mice. (B) PCR-based genotyping exhibits the offspring with indicated genotypes from intercrossing METTL3<sup>fl/fl</sup> mice and METTL3<sup>fl/wt</sup>; Alb-iCre (GPT) mice.



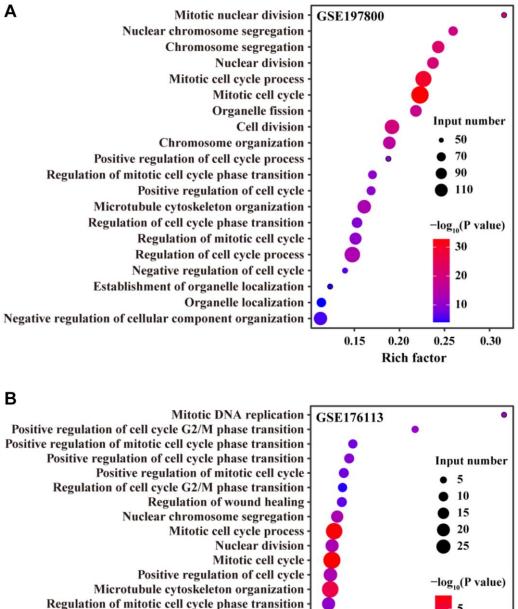
**Supplementary Figure 2. Hepatocyte-specific METTL14 homozygous ablation in mice by Alb-iCre mice (GPT) results in postnatal lethality.** (A) A schematic representation of the offspring with indicated genotypes from intercrossing METTL14<sup>fl/fl</sup> and METTL14<sup>fl/wt</sup>; Alb-iCre (GPT) mice. (B) PCR-based genotyping during the late postnatal period displays the number of offspring with indicated genotypes from intercrossing METTL14<sup>fl/fl</sup> mice and METTL14<sup>fl/mt</sup>; Alb-iCre (GPT) mice. (C) PCR-based genotyping during the early postnatal period exhibits the number of offspring with indicated genotypes from intercrossing METTL14<sup>fl/fl</sup> mice and METTL14<sup>fl/mt</sup>; Alb-iCre (GPT) mice. (C) PCR-based genotyping during the early postnatal period exhibits the number of offspring with indicated genotypes from intercrossing METTL14<sup>fl/fl</sup> mice and METTL1

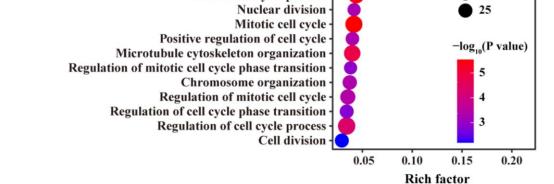


**Supplementary Figure 3. PCR-based genotyping of hepatocyte-specific METTL3 homozygous knockout (METTL3<sup>Δhep</sup>) mice by Alb-Cre mice (JAX).** (A) PCR-based genotyping displays the offspring with indicated genotypes from intercrossing METTL3<sup>fl/fl</sup> mice and Alb-Cre (JAX) mice. (B) PCR-based genotyping exhibits the offspring with indicated genotypes from intercrossing METTL3<sup>fl/fl</sup> mice and METTL3<sup>fl/wt</sup>; Alb-Cre (JAX) mice. (C) PCR-based genotyping exhibits the offspring with indicated genotypes from intercrossing METTL3<sup>fl/mt</sup>; Alb-Cre (JAX) mice. (JAX) mice.



Supplementary Figure 4. Hepatocyte-specific ablation of METTL14 in mice by Alb-Cre mice (JAX) didn't lead to postnatal lethality. (A) PCR-based genotyping during the late postnatal period shows the presence of offspring with the genotype (i.e., METTL14<sup>fl/fl</sup>; Alb-Cre (JAX): referred to as METTL14<sup>Δhep</sup> (JAX)) from intercrossing METTL14<sup>fl/fl</sup> mice and METTL14<sup>fl/fl</sup>; Alb-Cre (JAX) mice. (B) Survival curves of control and METTL14<sup>Δhep</sup> (JAX) mice (n = 80-99 for each group).





**Supplementary Figure 5.** GO term enrichment analyses of up-regulated DEGs (from RNA-seq data deposited in GEO under accession number GSE197800 (A) and GSE176113 (B)) in the liver of control and METTL3<sup> $\Delta$ hep</sup> (JAX) mice.