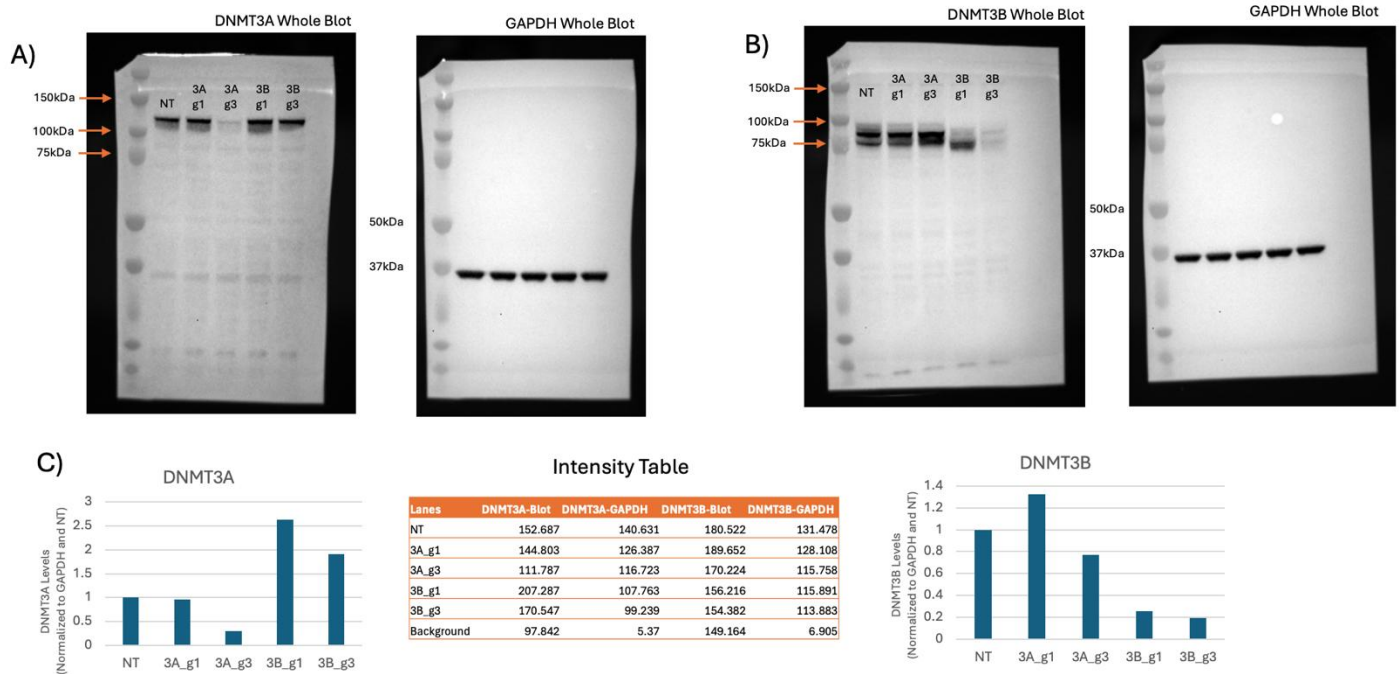




Supplementary Figure 1. Validation of DNMT3A and DNMT3B knockout by Western blot analysis.

(A) Uncut whole Western blot showing DNMT3A protein levels in non targeting control (NT) cells and DNMT3A or DNMT3B targeted guide RNA clones (g1 and g3). DNMT3A protein bands are shown at the expected molecular weight, demonstrating absent DNMT3A expression in DNMT3A knockout clones compared with NT controls. The corresponding GAPDH blot is shown as a loading control. **(B)** Uncut whole Western blot showing DNMT3B protein levels in the same NT and knockout clones. DNMT3B protein levels are reduced in DNMT3B targeted clones relative to NT controls. The corresponding GAPDH blot is shown as a loading control. **(C)** Quantification of DNMT3A and DNMT3B protein levels normalized to GAPDH and expressed relative to NT controls. Bar plots depict normalized protein abundance for each clone. The intensity table summarizes raw densitometry values for DNMT3A, DNMT3B, and GAPDH signals, as well as background measurements, used for normalization.