



Supplemental Figure 5:

(A) Pairwise scatterplot of replicates of the library containing *Pwp2* 10bp window mutants (cf Fig 4B). Correlations and their significance as in Supplemental Figure 1B.

(B) Pairwise scatterplot displaying correlations of replicates of library containing constructs with an artificial sequence context (cf Fig 5C and D). Correlations and their significance as in Supplemental Figure 1B.

(C) Table of number of deleted bases in the *Dnmt1*, *Dnmt3a*, *Dnmt3b* knock-out cell line (TKO).

(D) Barplot of Mass-Spectrometry quantification of DNA methylation levels in the WT and TKO cell lines.

(E) Scatterplot displaying normalized CpG density versus DNA methylation at CpG mutant promoters. Spearman's correlation and *p*-value of an approximate permutation test are indicated (see Methods).