



**Figure S3.** Epigenetic landscape of the *Mbd1* gene promoter region. ChIP-qPCR experiment showing the quantifications of different histone modifications in control (blue bars) and HP1-TKO (orange bars) 8 weeks old mouse livers at the *Mbd1* gene promoter. ChIP-qPCR quantifications are shown as the difference between the percentage of input with antibodies for the different histone modifications and the percentage of input in absence of antibody (%input-noAb). As indicated on the figure, six histone modifications have been investigated : H3K9me3, H4K20me3, H3K27me3, H3K4me1, H3K4me3 and H3K9Ac. Error bars indicate s.e.m. of at least three biological replicates. *p*-values (Student *t*-test) indicate the difference of enrichment between control and HP1-TKO samples: *p*-value < 0.01 (\*\*\*), *p*-value < 0.02 (\*\*), and *p*-value < 0.05 (\*).