



S9 Fig. Validation of KS1 and KS2 RNA-seq data by comparison to prior datasets. (A) Conditional p-value density plot displaying gene-wise p-values from the *Kmt2d*^{-/-} versus *Kmt2d*^{+/+} contrast at Day 7 of chondrogenic differentiation, stratified by significance in a prior dataset comparing *Kmt2d*^{-/-} versus *Kmt2d*^{+/+} cells, also collected at Day 7 (22). Orange: genes that were significant (FDR < 0.1) in the prior dataset; black: non-significant in prior dataset. (B) Scatter plot of gene-wise $\log_2(\text{fold-changes})$ in present and prior datasets at Day 7 shows high concordance in fold-change directionalities between datasets. A similar analysis was performed for the *Kdm6a*^{-/-} versus *Kdm6a*^{+/+} contrast at Day 14: (C) conditional p-value histogram and (D) $\log_2(\text{fold-change})$ scatter plot.