Human

MLL AF10: Physical interaction with hDOT1L, which methylates lysine 79 of histone H3. Implicated in leukemogenesis.

MLL AF17: Genetic interaction with the β-catenin / T-cell factor pathway. Implicated in leukemogenesis and colorectal cancer.

GASC1/Jumonji Transcription factors: Strong transcriptional repressors in organogenesis. Overexpression linked to esophageal cancer.

NSD1: SET domain protein, verified role in chromatin methylation. Implicated in leukemogenesis, Sotos and Weaver syndromes.

C. elegans

F54F2.2/ZFP1: Genetic interaction with β-catenin and MOM2 Wnt developmental regulators. RNAi phenotype: protruding vulva. Loss-of-function by RNAi suppresses RNAi activity, so positively implicated in gene silencing.

Y59A8A.2: RNAi phenotype: WT.


A. thaliana

ATX1: Methylates lysine 4 of histone H3, and activates homeotic gene expression in flower development.