

## **The interactome of a family of potential methyltransferases in HeLa cells**

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### **List of supplementary material**

Supplementary Figure 1. Interactome of METTL family members (log2 fold change >5).

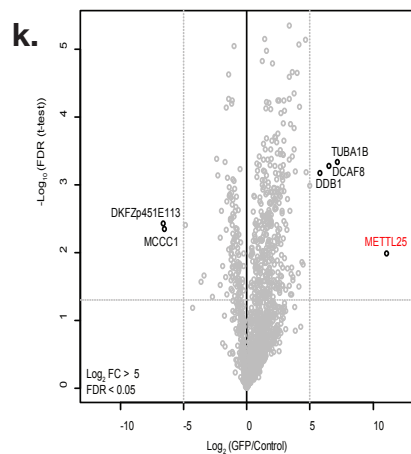
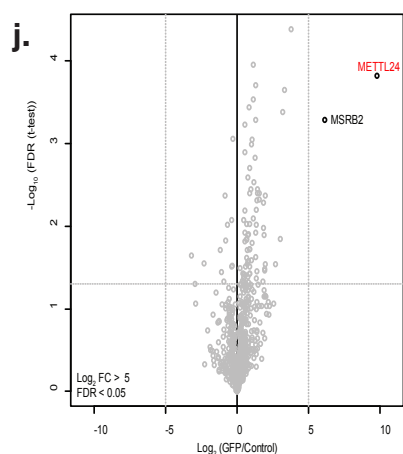
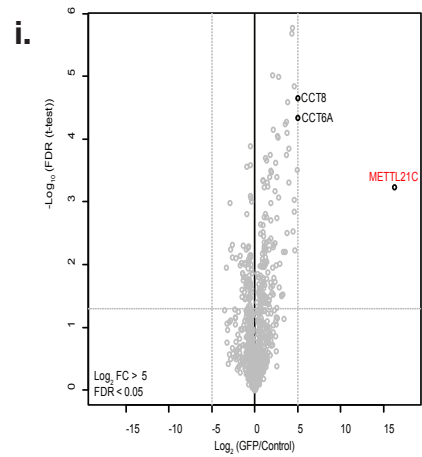
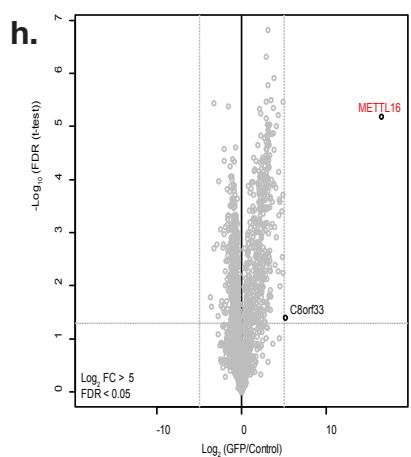
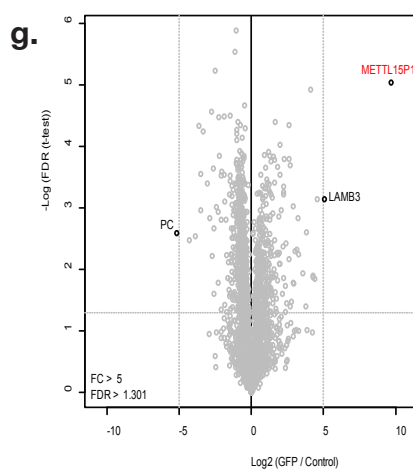
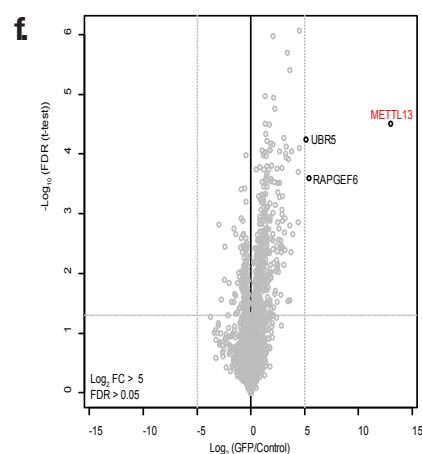
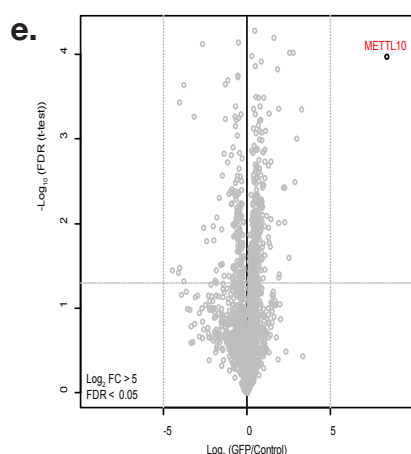
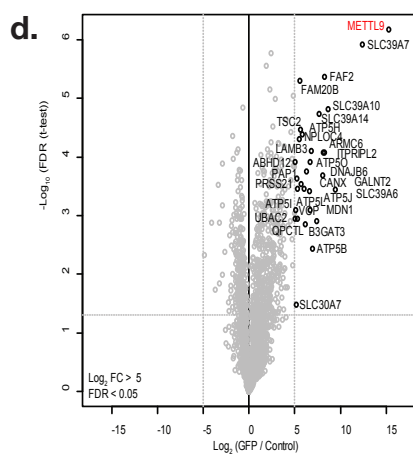
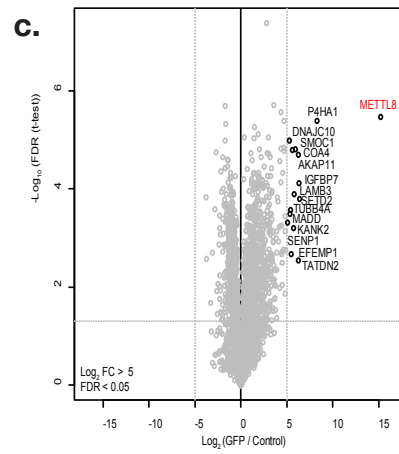
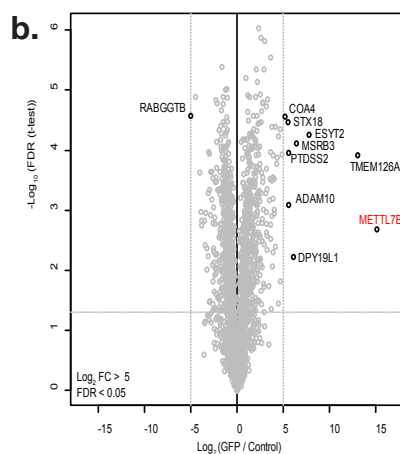
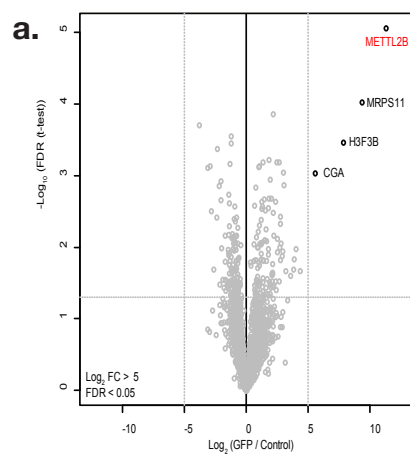
Supplementary Figure 2. Immuno-blot of nuclear and cytoplasmic fractions.

Supplementary Figure 3. Uncropped full size immuno-blot used for Figure 5a.

Supplementary Figure 4. Uncropped full size immuno-blot used for Figure 5b.

Supplementary Table 1. Summary of METTL-interacting proteins.

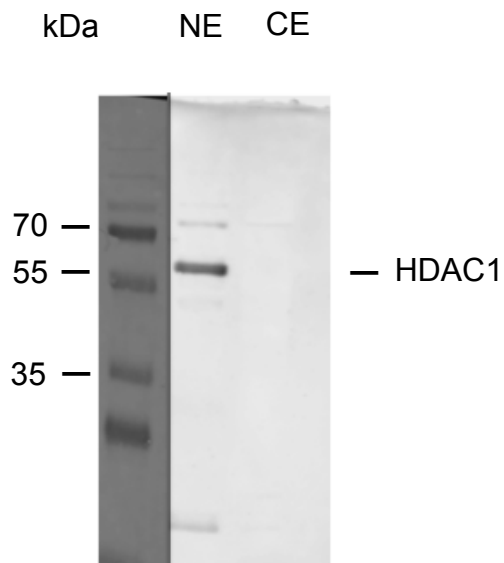
Supplementary Dataset 1. Excel table with protein and peptide identification data.



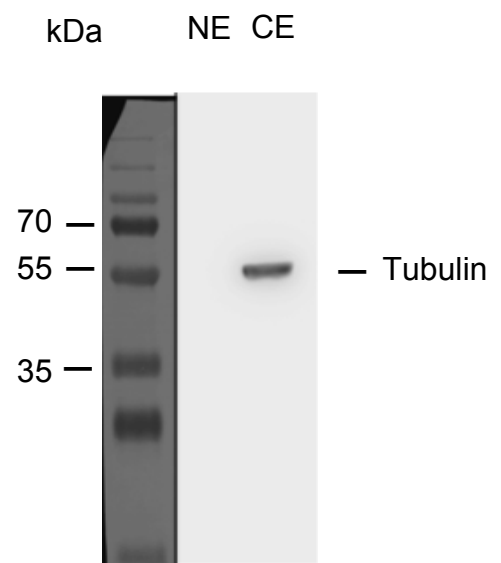
**Supplementary Figure 1. Interactome of METTL family members (log2 fold change >5).**

Volcano plot visualization of interaction partners for: (a) METTL2B, (b) METTL7B, (c) METTL8, (d) METTL9, (e) METTL10, (f) METTL13, (g) METTL15P1, (h) METTL16, (i) METTL21C, (j) METTL24, (k) METTL25. Purifications were performed from whole cell extract. Data displayed as described in the legend of Figure 2 using log2 fold change (FC) > 5 and false discovery rate (FDR) < 0.05 as thresholds. The baits are indicated in red.

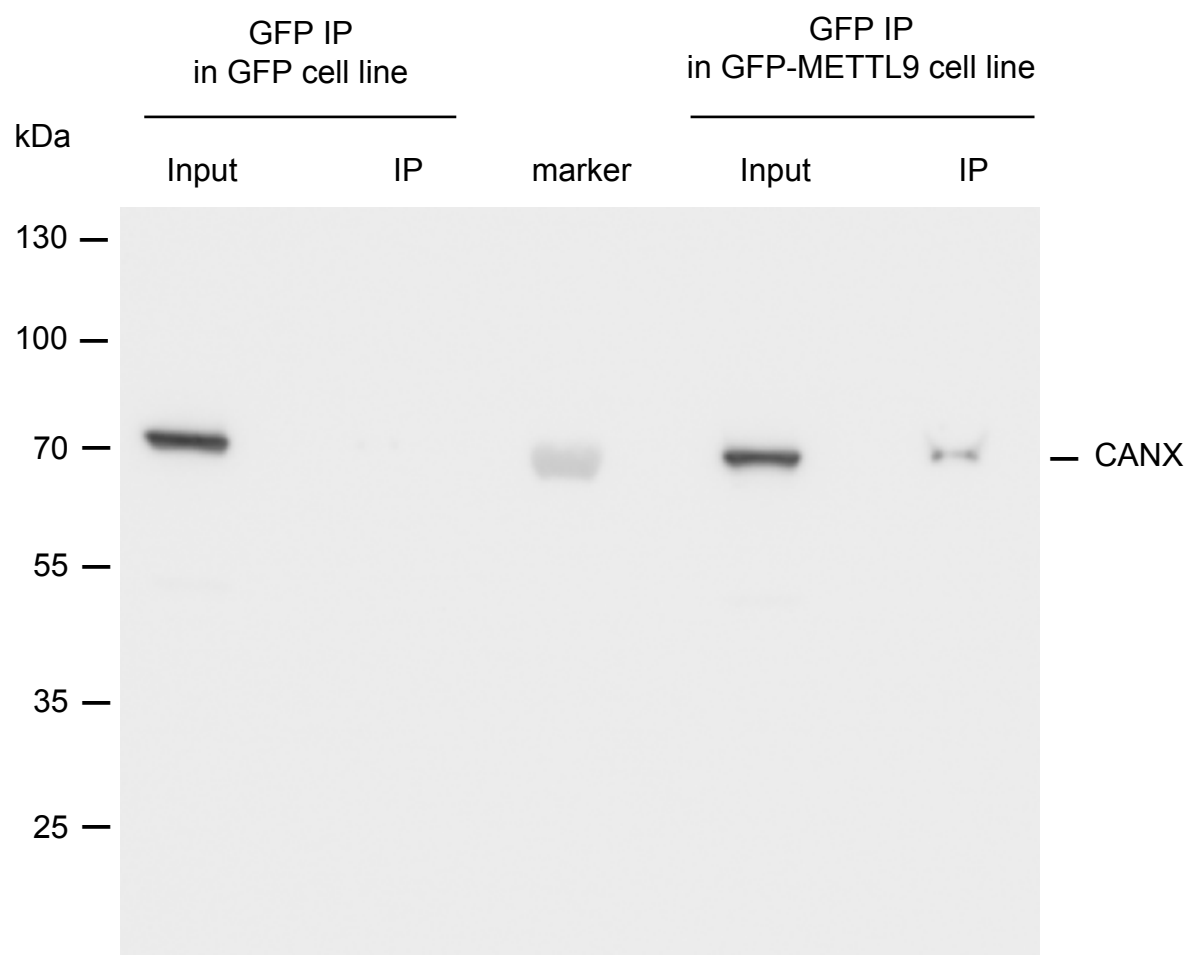
**a.**



**b.**

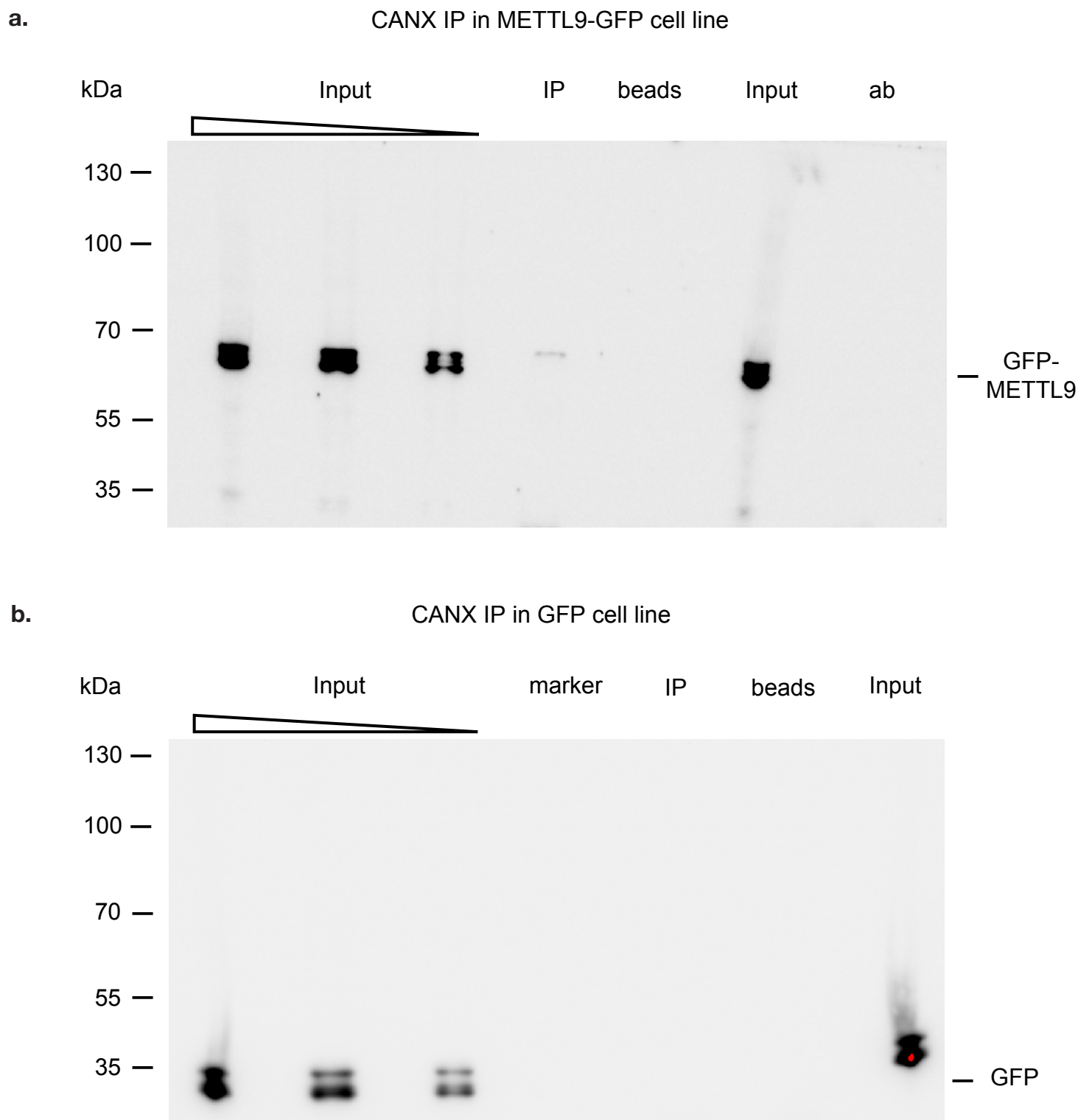


**Supplementary Figure 2. Immuno-blot of nuclear and cytoplasmic fractions.** HDAC1 (a) was detected in nuclear extract (NE) but not in cytoplasmic extract (CE). Tubulin (b) was detected in cytoplasmic but not in nuclear extract. Extract were probed with the indicated antibodies as markers for successful fractionation.



**Supplementary Figure 3. Uncropped full size immuno-blot used for Figure 5a.**

Validation of interaction between METTL9 and calnexin by co-IP. CANX can be detected in GFP-METTL9 IP but not in GFP IP. Labelling corresponds to Fig. 5a.



**Supplementary Figure 3. Uncropped full size immuno-blots used for Figure 5b.**

Validation of interaction between METTL9 and Calnexin by co-IP. GFP-METTL9 (a) but not GFP (b) is detected in IP with CANX antibody. Labelling corresponds to Fig. 5b left and Fig. 5b right, correspondingly. Beads indicates no antibody control, ab indicates CANX antibody-only control. To generate Fig. 5b immuno-blots were cropped to encompass only lanes with the lowest amount of Input (200 µg), IP, beads and, for the Fig. 5b right, marker.

**Table 1. Summary of METTL-interacting proteins.**

<b>Bait</b>	<b>Interacting protein</b>	<b>Function</b>
METTL2B	MRPS11	28S ribosomal protein S11, mitochondrial
METTL7B	TMEM126A	Transmembrane protein 126A, mitochondrial
METTL8	P4HA1	Prolyl 4-hydroxylase subunit alpha-1. Catalyzes the post-translational formation of 4-hydroxyproline in -Xaa-Pro-Gly- sequences
METTL9	SLC39A7	Zinc transporter SLC39A7
	SLC39A6	Zinc transporter ZIP6
	SLC39A10	Zinc transporter ZIP10
	CANX	Calcium-binding protein, Chaperone. Potential role in a quality control of incorrectly folded proteins
	FAF2	FAS-associated factor 2. Potential role in unfolded protein response, lipid droplet degradation, insulin-like growth factor receptor signaling
	ARMC6	Armadillo repeat- containing protein 6 pathway
	ITPRIPL2	Inositol 1,4,5-trisphosphate receptor-interacting protein-like 2

Proteins were selected using as a cutoff  $\log_2 \text{FC} > 8$ . The functions of interactors according to Uniprot ([www.uniprot.org](http://www.uniprot.org)) are indicated functions are indicated.