

Table S2. Verified M7CK Interacting Proteins, Related to Figure 2

M7CK-bound protein	Chromatin complex / Function	Binds M7CK	Zn-dep binding	Binding verified
Ring1a (Ring finger protein)	PRC1 / E3 ubiquitin ligase	M	?	E, T
RYBP (Ring binding protein)	PRC1, 2	L, M	+	E, T, P
RNF2 (Ring finger 2)	PRC1 / E3 ubiquitin ligase	L, M	+	E, T
Ezh2 (Enhancer of Zeste Homolog)	PRC2 / Histone Methyltransferase	L, M, S	-	E, T, P
EED1 (Embryonic Ectoderm Dev)	PRC2	L, M		E, T
YY1 (YY1 TF)	TF, PRC1, 2 and INO80/ putative DNA-binding	L, M, S	+	E, T
INO80	INO80 chromatin remodeling complex / DNA helicase	L	-	E, T
DDX3X (DEAD box helicase)	INO80 / ATP-dep RNA helicase	L, M	?	E, T
RuvBL1 / Pontin	TIP60 histone acetylase chromatin remodeling complex / ATP-dep DNA helicase	?	?	E
RuvBL2 / Reptin	INO80 / ATP-dep DNA helicase	L, M	?	E, T
DDB1 damage-specific DNA binding protein	Component of Cul4 DNA damage-repair complex	?	?	E
Cul4 (Cullin 4)	component of DNA damage repair complex / E3 ubiquitin ligase	L,?, ?	?	E, T
DBC1 (DBIRD component)	Inhibitor of HDAC3 and Sirt1	L	?	E, T
Beta Catenin	TF, binds multiple chromatin remodeling complexes	?	?	E
Sirt1 (Sirtuin)	CLOCK:BMAL1 chromatin complex /protein/histone deacetylase	L, M, S	?	E, T

L, M, S = long, medium, and short M7CK proteins. E refers to co-immunoprecipitation of endogenous proteins; T refers to co-immunoprecipitation of co-transfected, epitope-tagged M7CK and binding protein; P refers to pull-down of purified M7CK-L and purified binding protein. TF: Transcription Factor, PRC1: Polycomb Repressor Complex 1, PRC2: Polycomb Repressor Complex 2.