

## **Supplementary Methods**

### **shRNA Sequences**

<b>shRNA Plasmid Sigma-Aldrich Oligo ID</b>	<b>Hairpin Sequence</b>
pLKO.1 scramble – (SHC002) (shNS)	CCGGCAACAAGATGAAGAGCACCAACTCGAGTT GGTGCTCTTCATCTTGTTGTTTT
pLKO.1 shATF4 – TRCN0000013573 (#73)	CCGGGCCTAGGTCTCTTAGATGATTCTCGAGAAT CATCTAAGAGACCTAGGCTTTTT
pLKO.1 shATF4 – TRCN0000013577 (#77)	CCGGGTTGGTCAGTCCCTCCAACAACTCGAGTT GTTGGAGGGACTGACCAACTTTTT
pLKO.1 shFLI1 – TRCN0000005322	CCGGCGTCATGTTCTGGTTTGAGAT-CTCGAG- ATCTCAAACCAGAACATGACGTTTTT
pLKO.1 shKMT2B – TRCN0000005959 (#59)	CCGGCCAGCACTATAAGTTCCGTTACTCGAGTAA CGGAACTTATAGTGCTGGTTTTT
pLKO.1 shKMT2B – TRCN0000005960 (#60)	CCGGCGCATGGATGACTTTGATGTACTCGAGTAC ATCAAAGTCATCCATGCGTTTTT
<b>TRIPZ Inducible Lentiviral shRNA (Dharmacon)</b>	<b>Mature Antisense</b>
Non-silencing shRNA Control Cat. ID: RHS4743	
shMEN1 Clone Id: V2THS_76534 Cat. ID: RHS5087-EG4221	TTGATACAGACTGTACTION

### **Supplementary Materials:**

#### **Other Lentivirus Plasmids**

pLenti CMV/TO Puro empty (w175-1) (addgene #17482)

pLenti CMV Puro- mATF4 (addgene #24874)

#### **Viral Packaging Plasmids**

pCD/NL-BH\*DDD (addgene, #17531)

pMD2.G (addgene, #12259)

**Western Blot Antibodies**

<b>Protein</b>	<b>Antibody Name</b>	<b>Catalog #</b>	<b>Dilution</b>
anti-FLI1 (EWS-FLI1)	Anti-FLI1 antibody	Abcam ab15289	2 µg/mL
anti-ATF4	ATF-4 (D4B8) Rabbit mAb	Cell Signaling 11815	1:1000
anti-Menin	Menin Rabbit pAb	Bethyl Laboratories A300–105A	1:5000
anti-PHGDH	3PGDH (6B2) Mouse mAb	Santa Cruz Biotechnology sc100317	1:1000
anti-PSAT1	PSAT1 Rabbit pAb	Thermo Fisher PA5–22124	1:1000
anti-H3K4me3	H3K4me3 ChIP- Seq Grade Rabbit pAb	Diagenode C15410003-50	1:1000
anti-H3	Histone H3 Rabbit pAb	Cell Signaling 9715	1:1000
anti-p-eIF2α (Ser51)	Phospho-eIF2α (Ser51) (119A11) Rabbit mAb	Cell Signaling 3597	1:1000
anti-eIF2α	eIF2α Antibody, Rabbit pAb	Cell Signaling 9722	1:2000
anti-GAPDH	GAPDH (14C10) Rabbit mAb	Cell Signaling 2118	1:1000
anti-GAPDH	GAPDH (6C5) Mouse mAb	Thermo Fisher AM4300	1:20,000
Anti-Vinculin	Vinculin (E1E9V) Rabbit mAb	Cell Signaling 13901	1:5000