

**Table S2. All reagents and antibodies used in this study**

<b>REAGENT or RESOURCE</b>	<b>SOURCE</b>	<b>IDENTIFIER</b>
<b>Reagents</b>		
TRIzol™ Reagent	Thermo	Cat# 15596026
MMLV reverse transcription reagent	Promega	Cat# M1705
T7 RiboMAX™ Express LargeScale RNA Production System	Promega	Cat# P1320
Chemiluminescent Nucleic Acid Detection Module	Thermo	Cat# 89880
TnT Quick Couple Transcription/Translation System	Promega	Cat#L1170
NorthernMax®-Gly Kit	Thermo	Cat# AM1946
Alexa Fluor 594 Nucleic Acid Labeling Kit	Thermo	Cat# U21654
Alexa Fluor 680 Protein Labeling Labeling Kit	Thermo	Cat#A20172
Biotin RNA Labeling Mix	Roche	Cat#11685597910
DIG RNA Labeling Mix	Roche	Cat# 11277073910
Fluorescein-12-UTP Mix	Roche	Cat# 11427857910
TruePrep™ DNA Library Prep Kit V2 for Illumina	Vazyme	Cat# TD502
Micrococcal Nuclease Solution	Thermo	Cat# 88216
<b>Recombinant DNA</b>		
pLKO.1-puro vector	Yongzhong Liu Lab	N/A
pLKO.1-puro-shSNHG8#1	This Paper	N/A
pLKO.1-puro-shSNHG8#2	This Paper	N/A
pLVX-puro vector	Yongzhong Liu Lab	N/A
pLVX-puro-SNHG8(T4)	This Paper	N/A
pcDNA3.1(+)	Thermo	Cat# V790-20
pcDNA3.1(+)-SNHG8(T1)	This Paper	N/A
pcDNA3.1(+)-SNHG8(T2)	This Paper	N/A
pcDNA3.1(+)-SNHG8(T3)	This Paper	N/A
pcDNA3.1(+)-SNHG8(T4)	This Paper	N/A
pcDNA3.1(+)-SNHG8(T5)	This Paper	N/A
pcDNA3.1(+)-4× S1m	This Paper	N/A
pcDNA3.1(+)-4× S1m-SNHG8Δ1-130	This Paper	N/A
pcDNA3.1(+)-4× S1m-SNHG8Δ131-261	This Paper	N/A
pcDNA3.1(+)-4×S1m-SNHG8Δ262-570	This Paper	N/A
pcDNA3.1(+)-4× S1m-SNHG8	This Paper	N/A
pcDNA3.1(+)-4× S1m-SNHG8Δ 1-22&474-570	This Paper	N/A
pcDNA3.1(+)-4× S1m-SNHG8Δ78-220	This Paper	N/A
pcDNA3.1(+)-4× S1m-SNHG8Δ327-470	This Paper	N/A
pQCXIN-3×Flag-H1.0	This Paper	N/A
pQCXIN-3×Flag-H1.2	This Paper	N/A
pQCXIN-3×Flag-H1.3	This Paper	N/A
pQCXIN-3×Flag-H1.5	This Paper	N/A
pLVX-puro-H1.0CC	This Paper	N/A
pLVX-puro-H1.1CC	This Paper	N/A
pLVX-puro-H1.2CC	This Paper	N/A
pLVX-puro-H1.3CC	This Paper	N/A
pLVX-puro-H1.4CC	This Paper	N/A
pLVX-puro-H1.5CC	This Paper	N/A
lentiCRISPRv2-ΔH1.0	This Paper	N/A
lentiCRISPRv2-ΔH1.2	This Paper	N/A
lentiCRISPRv2-ΔH1.3	This Paper	N/A
lentiCRISPRv2-ΔH1.5	This Paper	N/A
12×p601 arrays	Robert G. Roeder Lab	N/A

pGEX-6p-1	Ming Lei Lab	N/A
pGEX-6p-H1.3-6×His	This Paper	N/A
pGEX-6p-H1.3-GD-6×His	This Paper	N/A
pGEX-6p-H1.3-CTD-6×His	This Paper	N/A
<b>Antibodies</b>		
anti-SOX9	Abcam	Cat# ab185230
anti-MAFB	Abcam	Cat# ab66506
anti-KRT13	Abcam	Cat# ab92551
anti-E2F1	Abcam	Cat# ab112580
anti-EZH2	Abcam	Cat# ab186006
anti-CDK1	Proteintech	Cat# 19532-1-AP
anti-CCNA2	Proteintech	Cat# 18202-1-AP
anti-biotin	Thermo	Cat# 89880D
anti-β-actin	Abcam	Cat# ab20272
anti-H1.0	Abcam	Cat# ab11079
anti-H1.2	Abcam	Cat# ab4086
anti-H1.3	Abcam	Cat# ab183737
anti-H1.5	Abcam	Cat# ab18208
anti-HP1BP3	Abcam	Cat# ab98894
anti-HP1α	Abcam	Cat# ab109028
anti-Flag	Sigma	Cat# F3165
anti-Flag-HRP	Sigma	Cat# F8592
anti-pan H1	proteintech	Cat# D209-3
<b>Bacterial and Virus Strains</b>		
DH5α competent <i>E.coli</i>	TIANGEN	Cat# CB101
Rosetta2 (DE3)	TSINGKE	Cat#TSC04
<b>Software and Algorithms</b>		
GraphPad Prism, Version 7.0.0 for windows	N/A	<a href="https://www.graphpad.com">https://www.graphpad.com</a>
The Gene Ontology Resource	N/A	<a href="http://geneontology.org">http://geneontology.org</a>
GSEA, Version 4.0.3	BROAD INSTITUTE	N/A
Image J	NIH, USA	<a href="https://imagej.nih.gov/ij">https://imagej.nih.gov/ij</a>
Bowtie 2	(Langmead and Salzberg, 2012)	<a href="http://bowtie-bio.sourceforge.net/bowtie2/index.shtml">http://bowtie-bio.sourceforge.net/bowtie2/index.shtml</a>
MACS, Version 2.1.0	(Zhang et al., 2008)	<a href="https://github.com/taoliu/MACS">https://github.com/taoliu/MACS</a>
BEDTools	(Quinlan, 2014)	<a href="https://bedtools.readthedocs.io/en/latest">https://bedtools.readthedocs.io/en/latest</a>
Samtools	(Li et al., 2009)	<a href="http://samtools.sourceforge.net">http://samtools.sourceforge.net</a>
Fast QC, Version 0.11.3	(Brown et al., 2017)	<a href="http://www.bioinformatics.babraham.ac.uk/projects/fastqc">http://www.bioinformatics.babraham.ac.uk/projects/fastqc</a>