

SUPPLEMENTARY TABLES

Supplementary table S1

List of 80 EZH2 target genes expression profiles in HCT116 cells and MCF-7 cells treated with EZH2 siRNAs

Accession	Gene name	MCF7 NC	MCF7 EZH2 siRNA	HCT116 NC	HCT116 EZH2 siRNA
NM_005502.2	ABCA1	439.7	1574.5	418.7	1402.8
NM_001124.1	ADM	176.2	1189.6	159.6	998
NM_001031615.1	ALDH3B2	136.4	475.8	125	414.2
NM_001647.2	APOD	344.2	2703.2	298.6	2201.7
NM_004316.2	ASCL1	425.1	1527.9	384.1	1214.2
NM_001165.3	BIRC3	139.4	693.3	118.3	486.8
NM_004335.2	BST2	96.6	404.7	95.7	338.5
NM_018381.2	C19orf66	64	230.1	61.1	196.8
NM_178496.2	C3orf59	495.4	1825.9	451.6	1600.9
NM_002985.2	CCL5	93.8	1875.7	83.7	1528.2
NM_001785.2	CDA	85.6	327.8	92.7	314.7
NM_004934.2	CDH18	84.4	571	76.6	458.8
NM_001710.4	CFB	120.8	713.5	113.8	582.2
NM_000495.3	COL4A5	402.2	1411.8	359.6	1143.3
NM_000308.2	CTSA	507.5	1600.3	448.1	1427.1
NM_014314.3	DDX58	95.5	406.4	90.1	342.7
NM_001999.3	FBN2	88.8	333.9	82.4	269.1
NM_148177.1	FBXO32	223.4	792.6	211.3	643.7
NM_198391.1	FLRT3	323.1	1028	283.9	964.6
NM_005252.2	FOS	280.9	1141	245.6	887.8
NM_006732.1	FOSB	111.3	477.1	109.2	416.5
NM_002510.2	GPNMB	67.6	335.2	77	318.8
NM_016323.2	HERC5	162	1012.7	143.7	860.5
NM_017912.3	HERC6	125.6	965.2	115.1	669.9
NM_003543.3	HIST1H4H	368.8	1183.2	322.9	976.4
NM_002116.5	HLA-A	3035.3	10021.6	2527	9193.6
NR_001434.1	HLA-H	356.7	1296.2	327	1102.5
NM_005532.3	IFI27	79.3	8819.5	80.4	7603.8
NM_005533.2	IFI35	89.5	386.6	90.3	324.8
NM_006417.3	IFI44	56.6	339	61.9	289.3
NM_022873.2	IFI6	1471.9	17793.6	1311.4	14606.6
NM_022168.2	IFIH1	185.1	1338	184	1061.3
NM_001548.3	IFIT1	110.9	3869	106.3	3093.1
NM_001031683.1	IFIT3	55.2	522.2	51.2	454.1
NM_003641.3	IFITM1	184.2	1912.8	195	1586.3
NM_006435.2	IFITM2	2402.9	10454.9	2206.4	8910
NM_021034.2	IFITM3	1849.2	11695	1704.4	10286.7
NM_000598.4	IGFBP3	66.7	285.4	80.4	258.5
NM_172140.1	IL29	66.4	221.9	58.9	190.4
NM_000584.2	IL8	2057.7	6820.3	1705.4	5639.7

NM_006084.4	IRF9	429.3	4591.4	412.2	3969.5
NM_005101.1	ISG15	944.4	8824.5	871.8	6357.9
NM_002201.4	ISG20	891.6	3550.5	816	3163.3
NM_014732.2	KIAA0513	211.4	823.9	187.3	617.8
NM_016270.2	KLF2	207.7	1055.8	192.6	920.7
NM_198129.1	LAMA3	86.5	301.9	75.3	253.4
NM_005567.2	LGALS3BP	110	853.4	104.6	704.1
NM_201589.2	MAFA	139.6	555.2	134.3	543
NM_007283.5	MGLL	172.9	594.2	154.8	466.1
NM_016816.2	OAS1	59.8	215.2	59.2	201.1
NM_016817.2	OAS2	65.6	1310.8	66.6	1096.9
NM_198213.1	OASL	123.2	777.9	143.7	619.1
NM_001008213.1	OPTN	217.2	988.9	195.7	841.4
NM_138821.1	PAM	1455	5520.4	1313.3	4583.6
NM_032789.1	PARP10	58.8	229.6	59.9	202.8
NM_022750.2	PARP12	143.9	1159.3	126.2	987.6
NM_017554.1	PARP14	136.3	618.1	132.9	496.8
NM_031458.1	PARP9	145.9	585.8	142.1	506.9
NM_173582.3	PGM2L1	94	359.8	79.4	277.7
NM_003706.1	PLA2G4C	128	544	133.2	455.5
NM_033405.2	PRIC285	487.2	2077.8	464	1603.4
NM_002864.1	PZP	72.3	271.8	74.6	228.8
NM_004585.3	RARRES3	62.4	331.5	59.6	284.9
NM_016084.3	RASD1	96.3	419.1	97	329.4
NM_002910.4	RENBP	135	1217.4	120.3	985.8
NM_002923.1	RGS2	62.8	214.6	56.6	171.2
NM_080657.4	RSAD2	56.9	259.7	58.8	242.3
NM_017654.2	SAMD9	90.9	1467	79.1	1224.1
NM_004510.2	SP110	295.8	1954.3	238.9	1565.5
NM_007315.2	STAT1	393.7	1887.1	358	1492.5
NM_000593.5	TAP1	531.6	2606.8	499	2101.8
NM_003190.3	TAPBP	711.8	2403.2	617.3	2063.7
NM_006287.4	TFPI	121	485.3	103.1	355.1
NM_018295.2	TMEM140	142.8	842.6	129.4	723.4
NM_005724.4	TSPAN3	374.3	1441.8	358.6	1257.7
NM_006398.2	UBD	69	345.2	59	266.6
NM_004223.3	UBE2L6	120.5	2971	116.1	2629.1
NM_024626.2	VTCN1	67.8	215.2	57.8	180.6
NM_024625.3	ZC3HAV1	137.5	566.4	127.3	495.8
NM_021035.2	ZNFX1	415.7	1258.8	361.1	1091.6

Table S2. EZH2, FBXO32, FBXO31 expression array data in 24 pair of clinical colon tumor samples with matched normal colon mucosa.

Patient No.	<i>EZH2</i>		<i>FBXO32</i>		<i>FBXO31</i>	
	Normal	Tumor	Normal	Tumor	Normal	Tumor
1	60.2	234	739.8	1595.4	1181.6	1563.7
2	69.9	472.9	3640	356.1	2109.9	1746.8
3	27.1	80.2	619.2	577	1124.9	1119.2
4	34.9	46.8	1879.2	171	1219.1	640.6
5	-4.7	185.6	1801.1	930.9	1760.7	1744.6
6	20	161.6	3929.5	307.8	2273.6	1912.1
7	15.7	546.7	1130.3	329.9	1202.3	2252.9
8	49.5	195.5	3364	692.6	2650.5	2416.7
9	-0.9	385.3	5137.5	273.3	2187.5	2450.9
10	53.3	207.8	2464.8	399	1808.2	1442.3
11	60.2	152.8	1169.2	417.3	1266.3	1673.6
12	66.7	284.2	176.1	754	1263.2	2649.1
13	36.5	409.9	2190.1	436	1619.5	1773.5
14	39.6	419.4	1965.1	2439.8	1874.7	4072.3
15	14.4	324.6	6205.2	507.5	3066.6	3596.8
16	-9.6	145.8	7567.9	830.8	3106.2	1721.7
17	12.9	179.1	2893.6	336.1	2057.9	1620.3
18	58	532.1	2942.3	457.4	2141.4	1543
19	50.2	415.8	4732.1	787.4	2832.7	1806.9
20	4	616.6	8484	626.1	3806.8	2335.2
21	20.5	561.3	5416.5	1117.8	2776.3	3510.6
23	42.1	280.6	3775.4	329.7	2377.4	3086.1
23	13.9	52	429.6	190.7	590.6	1585.3
24	37	121.7	2167.8	455.7	1458.4	2705.4

Table S3,

Primer sequences used for ChIP assay to detect EZH2 binding to FBXO32 promoter

Primers	Sequences
1	5'-GCAGCTATACGAGGTAGGACTGGGG-3' 5'-TTGCAGTGAGCTGAGATCGCGC-3'
2	5'-CACTAAACTCCTAAGACACAGCCC-3' 5'-TACCTTCAAATCAGATGGGG-3'
3	5'-CTAACACATCTGTGAGGTCAACGGG-3' 5'-TCTTGACAATGGGCTTGGCC-3'
4	5'-ATCACATCCCTTAATTATGCAG-3' 5'-CAAAGAAATTGTGTGTGCC-3'
5	5'-TTCACACAAATAGTTGTTGAAGGCC-3' 5'-TAAATGATGTACCCAGGGCC-3'
6	5'-CAACGCTTGAGATCCTCTCCGC-3' 5'-TCTTCACCCAGTTCTGCCCG-3'
7	5'-AGTCATGACTGTGCCACTGCGC-3' 5'-AAACCACCTGATTCCAGCCC-3'
8	5'-ATAGAGTGCACTCCGTTTCCAGGGG-3' 5'-AAGTCAACTGTGAGGTCAGGGGC-3'
9	5'-GATAAGCTTAAAGCAGGACCCC-3' 5'-TTAGGTTACTCATCCTGGGG-3'

. **Table S4. Targeting sequences of siRNAs**

EZH2 siRNAs	Targeting sequences
siEZH2#1	GACUCUGAAUGCAGUUGCU
siEZH2#2	CGGUGGGACUCAGAAGGCA
FBXO32 siRNAs	
siFBXO32#1	GUCACAUCCUUUCCUGGAA
siFBXO32#2	CUGGAUCCAGAAGAUUUA