



Supplementary Fig. 1.

Identification of the optimal cutoff values of N-cadherin (A) and NDRG1 (B) via X-tile analysis.

Supplementary Table 1. Information of gene regulation related sequences.

Name	Sequences		Vector
si-NDRG1	AACCUGCUACAACCCCCUC TT sence (5'-3')	GAGGGGGUUGUAGCAGGU TTI antisence (5'-3')	-
si-c-Jun	CAAACCUCAGCAACU CAATT sence (5'-3')	UUGAAGUUGCUGAGGU UUGTTI antisence (5'-3')	-
sh-CDH2	CC AGTGACTATTAAGAGAA AT sence (5'-3')	ATTTCTCTTAATAGTCA CTGG antisence (5'-3')	hU6-MCS-Ubiquitin-EGFP-IRES-puromycin
oe-CDH2		NM_001792	Ubi-MCS-3FLAG-CBh-gcGFP-IRES-puromycin
oe-c-Jun		NM_002228	Ubi-MCS-3FLAG-SV40-EGFP-IRES-puromycin
oe-AR		NM_000044	Ubi-MCS-3FLAG-SV40-EGFP-IRES-puromycin

Supplementary Table 2. Relative Oligonucleotide primers.

Gene	Forward	Reverse
CDH2	CTGTGCTGATGTTTGTGGTATGGATG	AGTCATAGTCCTGGTCTTCTTCCTC
AR	CTACATCAAGGAACTCGATCGT	CATGTGTGACTTGATTAGCAGG
NDRG1	GAAAAGCATTATTGGCATGGGA	CACAAGGGTTCACGTTGATAAG
18S	TTCGTATTGAGCCGCTAGA	CTTCGCTCTGGTCCGTCTT
GAPDH	TGACTTCAACAGCGACACCCA	CACCCTGTTGCTGTAGCCAAA

Supplementary Table 3. Relative antibodies information.

Protein	Brand	NO.
AR	abcam	ab74272
NDRG1	CST	#9485
N-Cadherin	abcam	ab18203
E-cadherin	CST	#3195
ZEB1	CST	#3396
Slug	CST	#9585
Snail	CST	#3879
Vimentin	CST	#5741

CgA	abcam	ab15160
NSE	abcam	ab79757
Syn	abcam	ab32127
Ki-67	CST	#9449
Cleaved Caspase-3	CST	#9661
β -actin	CST	#3700

Supplementary Table 4. Co-IP and ChIP assay related information of antibodies.

Protein	Brand	NO.	Host
AR	abcam	ab74272	rabbit
c-Jun	abcam	ab31419	rabbit
DNMT1	abcam	ab13537	mouse
IgG	cst	#2729	rabbit
IgG	cst	#5873	mouse

Supplementary Table 5. ChIP assay related Oligonucleotide primers.

Gene	Forward	Reverse	Region
NDRG1-TRE (1)	TGGCCTGAGGACAATGACGG	GCCAGGTTGAGAAGCACTGC	-1153~-1064
NDRG1-ARE	GCCACCTGGGTAGCTTTGTA	AGAGGAGCCGCCAAATTAAT	-1051~-913
NDRG1-TRE (2)	GGGAACATGCAGGCCAATAGT	ACAAGCCCAGATGAGAGGATTC	-859~-727

Supplementary Table 6. Luciferase assay related information.

Gene	Bank ID	Vector
NDRG1-Promoter	NM_006096-promoter (-2000~-1)	MCS-firefly_Luciferase
NDRG1-Promoter (without ARE)	NM_006096-promoter (-2000~-985; -951~-1)	MCS-firefly_Luciferase
NDRG1-Promoter	NM_006096-promoter	MCS-firefly_Luciferase

(without TRE (1))	(-2000~-1125; -1117~-1)		
NDRG1-Promoter	NM_006096-promoter		MCS-firefly_Luciferase
(without TRE (2))	(-2000~-790; -782~-1)		
NDRG1-Promoter	NM_006096-promoter		
(without TRE (1) and ARE)	(-2000~-1125; -1117~-985; -951~-1)		MCS-firefly_Luciferase
NDRG1-Promoter	NM_006096-promoter		
(without TRE (1) and TRE (2))	(-2000~-1125; -1117~-790; -782~-1)		MCS-firefly_Luciferase
NDRG1-Promoter	NM_006096-promoter		
(without ARE and TRE (2))	(-2000~-985; -951~-790; -782~-1)		MCS-firefly_Luciferase
NDRG1-Promoter	NM_006096-promoter		
(without TRE (1), ARE, and TRE (2))	(-2000~-1125; -1117~-985; -951~-790; -782~-1)		MCS-firefly_Luciferase
Renilla-Luciferase	-		TK promoter-Renilla_Luciferase

Supplementary Table 7. Pyrosequencing assay related primers.

Primer name	Sequences (5'-3')	5' modification	Position of NDRG1 promoter	Analyzed CpG
NDRG1(1)- Forward	GGTTTTGGGTTTAGTGGTAAAT		-1190~-1169	CpG (-1164)
NDRG1(1)- Reverse	ACAAAAC TACCCAAATAACTCCTA	5'-Biotin	-1033~-1056	and CpG (-1136)
NDRG1(1)- Sequencing	TGGGTTTAGTGGTAAATT		-1185~-1168	
NDRG1(2)- Forward	GGTAGGTGGTTGAGGATAAT		-1159~-1139	CpG (-1059)
NDRG1(2)-	ACAAAAC TACCCAAATAACTCCTA	5'-Biotin	-1033~-1056	

Reverse				
NDRG1(2)- Sequencing	ATGTAGTGTTTTTTAATTTGGT		-1085~-1064	
NDRG1(3)- Forward	TGGTTTGTATGTTTTTATTTGGTTAA AGA		-844~-872	
NDRG1(3)- Reverse	ACCCCCTAAAAATTCTAATTAACTA TTC	5'-Biotin	-1005~-978	CpG (-922)
NDRG1(3)- Sequencing	GTATATGAGAAGTTTTAGAGGA		-897~-918	
NDRG1(4)- Forward	TTTTTGGTTAGATGGGAATATGTAG GT		-872~-846	
NDRG1(4)- Reverse	CCCTTCCTATTCTAATTCCTAACT TTCA	5'-Biotin	-753~-782	CpG (-836) and CpG (-810)
NDRG1(4)- Sequencing	ATGGGAATATGTAGGTTAAT		-861~-842	