

Supplementary Table S1. Clinical characteristics of the bladder carcinoma patients.

Patient ID [#]	Patient age (years)	Sex	Stage (TNM classification*)	Grade	Surgery	Primary/Recurrent
1	56	M	T1N0M0	high	TURBT	Primary
2	72	F	T2N0M0	high	RC	Primary
3	65	M	T3N0M0	high	RC	Primary
4	59	M	T1N0M0	high	TURBT	Primary
5	43	M	T1N0M0	high	TURBT	Primary
6	45	M	T2aN0M0	low	RC	Primary
7	46	F	T2N0M0	high	RC	Primary
8	57	M	T1N0M0	high	TURBT	Primary
10	62	M	T2aN0M0	low	RC	Primary
11	66	M	T1N0M0	high	TURBT	Primary
12	41	F	T2aN0M0	low	RC	Primary
13	69	M	T3N0M0	high	RC	Primary
14	58	M	T1N0M0	high	TURBT	Primary
15	47	M	T2N0M0	high	RC	Primary

[#]The samples were collected randomly and objectively. Only the samples possessed the enough number of BCSCs for the quantitative real-time PCR (qRT-PCR), western blot (WB), chromatin immunoprecipitation (ChIP), etc. experiments were recorded.

*The TNM cancer staging system was designed to gauge the extent of cancer in a patient's body. T describes the size of the tumor and whether it has invaded nearby tissue, N describes regional lymph nodes that are involved, and M describes distant metastasis (spread of cancer from one body part to another). NA, not available. TURBT: transurethral resection of bladder tumor, RC: radical cystectomy.

Supplementary Table S2. PCR primer sequences for selected genes.

Gene	Forward primer	Reverse primer	Application
<i>GAPDH</i>	AAGGTGAAGGTCGGAGTCAA	GGAAGATGGTGATGGGATTT	RT-PCR
<i>KMT1A</i>	ATGCCGCCTACTATGGCAAC	AAAGTTGGAGTCCATGCGGG	RT-PCR
<i>BMI1</i>	CCACCTGATGTGTGTGCTTTG	TTCAGTAGTGGTCTGGTCTTGT	RT-PCR
<i>CD44</i>	CTGCCGCTTTGCAGGTGTA	CATTGTGGGCAAGGTGCTATT	RT-PCR
<i>CD47</i>	AGAAGGTGAAACGATCATCGAGC	CTCATCCATACCACCGGATCT	RT-PCR
<i>CTNNB1</i>	ACAACTGTTTTGAAAATCCA	CGAGTCATTGCATACTGTCC	RT-PCR
<i>GLI1</i>	TCCTTTATTATCAGGAAACAG	GAGTAGGGAATCTCATCCAT	RT-PCR
<i>NANOG</i>	TACCTCAGCCTCCAGCAGA	CCTCCAAGTCACTGGCAG	RT-PCR
<i>POU5F1</i>	GACAACAATGAAAATCTTCAGGAGA	TTCTGGCGCCGGTTACAGAACCA	RT-PCR
<i>SOX2</i>	ATGCACCGCTACGACGTGA	CTTTTGCACCCCTCCCATTT	RT-PCR
<i>STAT3</i>	ACCAGCAGTATAGCCGCTTC	GCCACAATCCGGGCAATCT	RT-PCR
<i>GATA3</i>	ACTTCCCAAGAACAGCTCG	GTGGTGTGGTCCAAAGGACA	RT-PCR
<i>GAPDH</i>	TACTAGCGGTTTTACGGGCG	TCGAACAGGAGGAGCAGAGAGCGA	CHIP
<i>GATA3</i> (-1351~-1172)	TTTGGGGTTCTGGCGTCTGG	TGGACAGAGGTGGAGGTGGT	CHIP
<i>STAT3</i> (-1710~-1530)	TACCTGTAGA GTGTGTGTGT	GGCAGGGAGTGTATAAGGTGTGTA	CHIP