

## SUPPLEMENTARY TABLES

**Supplementary Table 11. Summarized information of the GEO datasets used in the study.**

GEO number	Platform	Number of Sample	Date		Type of sample	Experiment type
			Submission	Last update		
GSE13507	GPL6102 Illumina human-6 v2.0 expression beadchip	165	Nov 07, 2008	Feb 03, 2020	primary bladder cancer	Expression profiling by array
GSE32548	GPL6947 Illumina HumanHT-12 V3.0 expression beadchip	131	Oct 11, 2011	Aug 16, 2018	urothelial carcinomas	Expression profiling by array
GSE32894	GPL6947 Illumina HumanHT-12 V3.0 expression beadchip	224	Oct 03, 2011	Aug 16, 2018	primary bladder cancer	Expression profiling by array

**Supplementary Table 12. Condition number of a matrix (K) of the 10-lncRNA signature in the three data series.**

Series	Condition Number of a Matrix(K)	If K<100
GSE32894	5.25	yes
GSE32548	2.69	yes
GSE13507	3.11	yes

If  $K < 100$ , the degree of collinearity is very small;

If  $100 \leq k \leq 1000$ , there is a general degree of collinearity;

If  $k > 1000$ , there is a serious collinearity.

**Supplementary Table 13. Results of univariate Cox regression analysis of the 10 prognostic lncRNAs in every series.**

<b>Univariate Cox proportional-hazards regression model analysis of DSS in patients with BLCA</b>					
<b>Probe ID</b>	<b>Gene symbol</b>	<b>Beta</b>	<b>HR(95%CI for HR)</b>	<b>wald.test</b>	<b>p</b>
ILMN_1884070	LOC105375787	4.4	83 (5.2-1300)	9.8	0.0018
ILMN_1665515	CYTOR	1.2	3.4 (1.5-7.9)	8	0.0046
ILMN_1728403	URB1-AS1	1.2	3.5 (1.5-7.9)	8.8	0.003
ILMN_1909784	C21orf91-OT1	3.2	24 (3.3-170)	9.9	0.0016
ILMN_1656131	CASC15	0.62	1.9 (1.4-2.5)	16	7.60E-05
ILMN_1910948	LOC101928433	0.91	2.5 (1.3-4.9)	7	0.0083
ILMN_1813179	LINC00960	-0.39	0.68 (0.51-0.91)	6.7	0.0099
ILMN_2099858	TTY19	-4.1	0.017 (0.00078-0.37)	6.7	0.0098
ILMN_1807464	FLJ45139	1.3	3.5 (1.5-8.4)	8.3	0.004
ILMN_1904054	HOTAIR	1.9	6.8 (2.9-16)	19	1.00E-05
<b>GSE13507</b>					
<b>Probe ID</b>	<b>Gene symbol</b>	<b>Beta</b>	<b>HR(95%CI for HR)</b>	<b>wald.test</b>	<b>p</b>
ILMN_1656131	CASC15	0.3	1.4 (0.79-2.3)	1.2	0.27
ILMN_1665515	CYTOR	0.84	2.3 (1.5-3.7)	12	0.00043
ILMN_1728403	URB1-AS1	0.75	2.1 (0.94-4.8)	3.3	0.069
ILMN_1807464	FLJ45139	0.16	1.2 (0.8-1.7)	0.69	0.41
ILMN_1813179	LINC00960	-0.47	0.62 (0.4-0.98)	4.2	0.039
ILMN_1884070	LOC105375787	0.76	2.1 (0.078-59)	0.2	0.65
ILMN_1904054	HOTAIR	0.048	1 (0.56-2)	0.02	0.88
ILMN_1909784	C21orf91-OT1	-0.86	0.42 (0.034-5.3)	0.44	0.51
ILMN_1910948	LOC101928433	-0.65	0.52 (0.23-1.2)	2.6	0.11
<b>GSE32548</b>					
<b>Probe ID</b>	<b>Gene symbol</b>	<b>Beta</b>	<b>HR(95%CI for HR)</b>	<b>wald.test</b>	<b>p</b>
ILMN_1884070	LOC105375787	2.8	16 (0.4-620)	2.2	0.14
ILMN_1665515	CYTOR	0.4	1.5 (0.45-5)	0.42	0.52
ILMN_1728403	URB1-AS1	0.65	1.9 (0.84-4.4)	2.4	0.12
ILMN_1909784	C21orf91-OT1	1.3	3.5 (0.5-25)	1.6	0.21
ILMN_1656131	CASC15	0.38	1.5 (1.1-2)	5.4	0.02
ILMN_1910948	LOC101928433	-0.49	0.61 (0.21-1.8)	0.82	0.36
ILMN_1807464	FLJ45139	-0.16	0.85 (0.11-6.6)	0.02	0.88
ILMN_1904054	HOTAIR	-0.81	0.44 (0.062-3.2)	0.65	0.42
ILMN_2099858	TTY19	2	7.6 (0.25-230)	1.3	0.25
ILMN_1813179	LINC00960	-0.51	0.6 (0.43-0.84)	8.8	0.0031