

Table S1. Clinicopathologic characteristics of the study population

Characteristics	n (%) [*]	BCR		
		n of events	Median, months	<i>P</i> [‡]
All patients	320	116	53	
Age at diagnosis, years				
≤65	141 (44.6)	51	46	0.291
>65	175 (55.4)	63	64	
PSA at diagnosis, ng/mL				
≤10	132 (42.7)	28	NR	<0.001
>10	177 (57.3)	83	30	
Pathologic Gleason score				
2–6	122 (39.1)	33	NR	<0.001
7–10	190 (60.9)	79	30	
Pathologic stage [†]				
Localized	206 (65.6)	46	NR	<0.001
Locally advanced	108 (34.4)	65	10	
Surgical margin				
Negative	196 (70.5)	51	NR	<0.001
Positive	82 (29.5)	47	22	
Lymph node metastasis				
Negative	290 (93.2)	92	71	<0.001
Positive	21 (6.8)	19	2	

Abbreviations: BCR, biochemical recurrence; PSA, prostate-specific antigen; NR, the median survival was not reached.

^{*}Column subtotals do not sum to 320 due to missing data.

[†]Tumor-node-metastasis staging by American Joint Committee on Cancer in 1997: Localized: T1/T2; Locally advanced: T3/T4.

[‡]*P* values were calculated using the log-rank test and *P* < 0.05 are in boldface.

Table S2. Regulatory annotation of variants linked with rs2394882

SNP ID	Chromosome	Position	LD (r ²)	Reference allele	Alternate allele	ASN frequency	Variant type	Promoter histone marks	Enhancer histone marks	DNase	Proteins bound	Motifs changed
rs2022084	6	31149276	0.8	A	G	0.63	intronic					Nkx2
rs3130498	6	31149842	0.8	T	C	0.63	intronic		LIV			Lmo2-complex, Mtf1, Myf, NRSF, TCF12, ZEB1, Zbtb3
rs130078	6	31150788	0.8	C	G	0.63	synonymous		ESDR, IPSC, GI			Myf, p53
rs3130500	6	31152199	0.81	T	A	0.63	intronic					COMP1, HNF4, RXRA
rs2240059	6	31152837	0.84	C	T	0.63	intronic		ESDR			AP-2, ERalpha-a, HNF4, NRSF, Sin3
rs3130450	6	31153736	0.82	C	T	0.63	intronic					Ak-20, Znf143
rs3130452	6	31155536	0.81	A	G	0.62	intronic					Irf, SP1, TATA, ZBRK1
rs3095239	6	31159013	0.8	A	G	0.54	5'-UTR	ESC, ESDR, LNG, IPSC, FAT, STRM, BRST, BLD, MUS, BRN, SKIN, VAS, LIV, GI, ADRL, HRT, KID, PANC, PLCNT, THYM, OVRY, CRVX, BONE	SPLN		ESC, ESDR, ESDR, ESC, LNG, BRST, BLD, BLD, SKIN, SKIN, HRT, LNG, THYM, BLD, CRVX, MUS, VAS, BLD, SKIN	
rs3094187	6	31159167	0.81	C	T	0.54	5'-UTR	ESC, ESDR, LNG, IPSC, FAT, STRM, BRST, BLD, MUS, BRN, SKIN, VAS, LIV, GI, ADRL, HRT, KID, PLCNT, THYM, OVRY, PANC, CRVX, BONE	HRT, LNG, SPLN		ESC, ESDR, ESC, BRST, SKIN, HRT, MUS, MUS, CRVX, LIV, VAS, BLD	
rs3130934	6	31160775	0.99	A	C	0.59	intronic	BLD	BLD			Fox, Foxa, Foxd3, Foxf1, Foxi1, Foxj1, Foxj2, Foxl1, Foxp1, Foxq1, Irf, RREB-1, Sox, Zfp105

rs2073721	6	31161839	0.84	A	G	0.63	missense		IPSC, ESC, SKIN, BLD	IPSC	POL2	EBF,Irf,MZF1::1-4,NF-kappaB,Nkx2,STAT SREBP
rs2073723	6	31162301	0.84	T	C	0.63	intronic		ESC, IPSC, SKIN, BLD, CRVX	ESC		
rs1065461	6	31162725	0.84	T	C,G	0.63	3'-UTR			ESC	POL2,POL24H8	
rs3132528	6	31163792	0.84	C	T	0.63	3'-UTR	BLD	MUS, LNG, CRVX, BRST	CRVX		AIRE,ATF3,CACD,Rad21,SP2 Myf
rs1061118	6	31164637	1	G	A	0.59	synonymous					
rs2394882	6	31164872	1	A	C	0.59	intronic	BLD	IPSC, BLD			DEC,E2A,Irf,Nanog,Pou5f1,TAL1
rs2106074	6	31165732	0.99	G	A	0.59	intronic		ESDR, ESC, IPSC, BLD			
rs3130932	6	31166166	0.99	C	A	0.59	5'-UTR	BLD	ESC, IPSC	BLD,MUS		Hand1
rs3130929	6	31167430	0.83	T	C	0.63	intronic	ESC, IPSC	ESC			Egr-1,Mtf1,Znf143
rs9263804	6	31167929	0.83	C	T	0.63	intronic	ESC, ESDR, IPSC	ESC, SKIN			AP-1,Hdx,Irf,Pou3f2,TATA,TCF12 PU.1,TCF4
rs3130501	6	31168676	0.82	A	G	0.63	intronic	ESC, ESDR, IPSC	ESDR, BLD, SKIN, CRVX	ESC		E2F,ERalpha-a,NRSF
rs3130502	6	31168889	0.83	A	G	0.63	intronic	ESC, ESDR, IPSC	ESDR, SKIN, ADRL, PLCNT, CRVX			SIX5
rs3132524	6	31168937	0.83	T	C	0.63	intronic	ESC, ESDR, IPSC	ESDR, SKIN, ADRL, PLCNT, CRVX	ESC		Bcl6b,GATA,HDAC2,RXRA,TAL1
rs3132523	6	31169055	0.83	T	C	0.63	intronic	ESC, ESDR, IPSC	ESDR, SKIN, PLCNT, CRVX, BLD			ERalpha-a,SETDB1
rs3132522	6	31169982	0.82	T	C	0.64	intronic	ESC, ESDR, IPSC	ESDR, BRST, SKIN, GI, PLCNT, SPLN, CRVX, BLD		POL2,POL24H8,AP2ALPHA,AP2 GAMMA	
rs3094192	6	31170027	0.82	C	G	0.64	intronic	ESC, ESDR, IPSC	ESDR, BRST, SKIN, GI, PLCNT, SPLN, CRVX, BLD		POL2,POL24H8,AP2GAMMA	BCL,E2A,GR,Irf,LBP-9,Nkx2,PU.1 ,Pax-5,RXRA,STAT
rs3130504	6	31170060	0.82	A	T	0.64	intronic	ESC, ESDR, IPSC	ESDR, BRST, SKIN, GI, PLCNT, SPLN, CRVX, BLD		POL2,POL24H8,AP2GAMMA	SMC3,YY1