

Table S1. Genotyped SNPs and the *P* values of their association with BCR after RP

Gene	SNP ID	Chromosome position	Allele	MAF	BCR		
					Additive	Dominant	Recessive
<i>TCF7L2</i>	rs7094463	10:114701973	A:G	0.404	0.906	0.655	0.733
<i>TCF7L2</i>	rs2094405	10:114705679	G:A	0.353	0.580	0.491	0.888
<i>TCF7L2</i>	rs7919409	10:114814966	T:C	0.312	0.861	0.642	0.702
<i>TCF7L2</i>	rs3750804	10:114823840	C:T	0.242	0.703	0.766	0.724
<i>TCF7L2</i>	rs4918792	10:114833939	A:G	0.498	0.407	0.626	0.394
<i>TCF7L2</i>	rs966227	10:114836756	T:C	0.329	0.350	0.343	0.649
<i>TCF7L2</i>	rs10749127	10:114839343	C:T	0.284	0.877	0.987	0.747
<i>TCF7L2</i>	rs11196224	10:114845387	C:T	0.289	0.372	0.735	0.153
<i>TCF7L2</i>	rs7085532	10:114849453	G:A	0.435	0.073	0.166	0.120
<i>TCF7L2</i>	rs17130188	10:114858152	T:C	0.474	0.057	0.100	0.147
<i>TCF7L2</i>	rs290489	10:114897045	G:A	0.301	0.511	0.650	0.489
<i>TCF7L2</i>	rs290481	10:114913815	A:G	0.420	0.734	0.588	0.956

Abbreviations: SNP, single nucleotide polymorphism; BCR, biochemical recurrence; RP, radical prostatectomy; MAF, minor allele frequency. *P* values for log-rank test.

Table S2. Regulatory annotation of variants within the linkage disequilibrium block containing *TCF7L2* rs7094463

SNP ID	Allele	LD (r^2)	Promoter histone marks	Enhancer histone marks	DNase	Proteins bound	Motifs changed
rs112385175	C/T	0.81	GM12878, NHEK, NHLF, HMEC, Huvec, HepG2, HSMM, K562, H1		GM12878, MCF-7, AoSMC, GM12891, GM19240, HPDE6-E6E7, Hepatocytes, PanIsletD, ProgFib, RWPE1, Urothelia, pHTE, AG09319, BE2_C, CD20+, HBMEC, HCFaa, HCT-116, HConF, HIPEpiC, HMVEC-LBI, HRPEpiC, HVMF, Jurkat, NHDF-neo, NT2-D1, PANC-1, SKMC, WERI-Rb-1	NFKB, POL2, SIN3AK20, SP1, TCF4, TAF1, HEY1, ZNF263	HNF4, MAZ, MAZR, MZF1::1-4, NF-AT, PPAR, Pax-4, SP1, ZNF263
rs10885396	C/T	1	GM12878, NHEK, NHLF, HMEC, Huvec, HepG2, HSMM, K562, H1		A549, H1-hESC, HSMM, HUVEC, HeLa-S3, K562, LNCaP, MCF-7, NHEK, AoSMC, FibroP, GM19239, Gliobla, HPDE6-E6E7, HSMM_emb, Hepatocytes, Melano, Myometr, Osteobl, PanIsletD, Stellate,	NFKB, POL2, RAD21, SIN3AK20, SP1, TAF1, TCF4, HEY1	EWSR1-FLI1, Foxa, PU.1, Pax-5, TATA

Urothelia, pHTE,
 AG04449, AG04450,
 AG09309, AG09319,
 AG10803, AoAF, BJ,
 CD34+_Mobilized,
 CMK, GM12865, H7-
 hESC, HA-h, HA-sp,
 HAEpiC, HAc, HCF,
 HCFaa, HCM,
 HCPEpiC, HCT-116,
 HEEpiC, HFF, HGF,
 HL-60, HMF,
 HMVEC-dBl-Ad,
 HMVEC-dBl-Neo,
 HNPCEpiC, HPAEC,
 HPAF, HPdLF,
 HRCEpiC, HRE,
 HRGEC, HRPEpiC,
 HVMF, Monocytes-
 CD14+_RO01746,
 NB4, NH-A, NHDF-
 Ad, NHDF-neo,
 NHLF, NT2-D1,
 PrEC, RPTEC, SAEC,
 SK-N-MC, SKMC,
 WI-38

rs7094463 A/G 1

GM12878, NHEK,
 NHLF, HMEC, Huvec,
 HepG2, HSMM, K562,
 H1

POL2, ZNF263

Fox

rs7094871	C/G	1	GM12878, NHEK, NHLF, HMEC, Huvec, HepG2, HSMM, H1, K562		HSMM, HUVEC, HeLa-S3, HepG2, Gliobla, pHTE, Caco-2	POL2, HAE2F1	BCL, BHLHE40, ELF1, Ets, HEY1, Hic1, NRSF, Nrf1, YY1, p300
rs60140501	G/C	0.81	NHEK, NHLF, HMEC, Huvec, HepG2, HSMM, H1		H1-hESC, H9ES, iPS, AG04449, AG09319, H7-hESC, HCT-116, HMF, RPTEC		BCL, BDP1, BHLHE40, CTCFL, CTCF, ELF1, Ets, HNF4, Myc, NRSF, PU.1, Rad21, SP1, TR4, ZBTB7A, p300
rs2094407	T/G	0.81	H1	NHLF, HMEC, Huvec, NHEK, HSMM, HepG2	HCFAA, HMVEC-dBl-Neo		STAT, p300
rs7079073	A/G	0.81	HepG2, NHLF, HMEC, H1, NHEK	Huvec, HSMM	pHTE, HCPEpiC, HMVEC-dBl-Ad, HMVEC-dBl-Neo, HMVEC-dLy-Ad, HMVEC-dLy-Neo, HPdLF, HRPEpiC, PANC-1, RPTEC, WI-38		Hsf, NF-I, NF-kappaB, TR4
rs2104598	G/A	0.96	HepG2, NHLF, HMEC, H1, NHEK	Huvec, HSMM	HCPEpiC, HRPEpiC, WI-38		AhR::Arnt, Arnt, Hoxa9, Hoxb8, Hoxb9, Hoxd10

Table S3. Regulatory annotation of variants within the linkage disequilibrium block containing *TCF7L2* rs10749127

SNP ID	Allele	LD (r^2)	Enhancer histone marks	DNase	Motifs changed
rs10749127	C/T	1	K562, H1	GM19238	Egr-1, GLI, Irf

Table S4. Regulatory annotation of variants within the linkage disequilibrium block containing *TCF7L2* rs11196224

SNP ID	Allele	LD (r^2)	Enhancer histone marks	DNase	Proteins bound	Motifs changed
rs11196224	C/T	1		BE2_C, HCF, HPAF		LUN-1, TCF12
rs10787474	G/A	0.98	HMEC			E2A, FXR, HEN1, Myf, ZEB1
rs7081841	C/G	0.85	Huvec, NHEK, HMEC, NHLF	HUVEC, HPDE6-E6E7, HA-sp, HBMEC, HCFaa, HPdLF, HRE, HRGEC, SAEC, WI-38	KAP1, STAT3, ZNF263	
rs12360401	G/C	0.96				Myc, Smad4, Sp4
rs12267693	T/G	0.84				Foxd3, Foxf1, Foxj1, Foxp1, Foxq1, HDAC2, Irf, Pax-4, RREB-1, Sox, Zfp105, p300
rs290477	G/T	0.87	HMEC, NHLF, NHEK, HSMM			DMRT2, Foxo, TCF4