



Supplementary Figure 1. The pan-cancer prognostic value of PRC1

A. A forest diagram shows the pan-cancer correlation between PRC1 expression and OS.

B. A forest diagram shows the pan-cancer correlation between PRC1 expression and PFI.

Supplementary Table 1. The sample characteristic statistics of GSE84402 dataset

Characteristic	cancertissue	non-canceroustissue	p
n	14	14	
hbsag, n (%)			1.000
negative	1 (3.6%)	1 (3.6%)	
positive	13 (46.4%)	13 (46.4%)	
gender, n (%)			1.000
female	5 (17.9%)	5 (17.9%)	
male	9 (32.1%)	9 (32.1%)	
age, mean \pm SD	47.69 \pm 9.92	47.69 \pm 9.92	1.000

Supplementary Table 2. The expression of the top 300 PRC1 co-expressed genes in LIHC dataset in TCGA database

gene	Log2FC	gene	Log2FC
BUB1B	0.684333368	ZWINT	0.513144342
KIF23	0.859827215	CCNA2	0.194279504
CKAP2L	0.662927038	RACGAP1	0.600337428
ARHGAP11A	0.530113597	WDHD1	0.557225073
NUSAP1	0.452746956	AC099850.3	0.78811344
TOP2A	0.758353631	DEPDC1	0.762905353
KIF18B	0.665194448	TCF19	0.456979877
FANCI	0.486302827	CENPL	0.539285211
ANLN	0.924572728	ATAD5	0.434474133
FOXM1	0.547705404	AC091057.1	0.475941016
KIF18A	0.741723356	DTL	0.475850981
BUB1	0.752744257	HELLS	0.519462748
TPX2	0.716879792	SKA3	0.440290342
KIF11	0.705653533	NDC80	0.603510129
KIFC1	0.643708728	EZH2	0.41750497
POLQ	0.652941671	PRR11	0.861723505
KIF4A	0.747388251	NCAPG2	0.382036237
TICRR	0.593424262	CDCA2	0.819871047
E2F8	0.369028049	MCM2	0.49747493
NCAPH0	0.743188771	ASF1B	0.634997052
SGO2	0.671210601	KNTC1	0.511397195
OIP5	0.41277369	WDR760	0.381611643
CENPF	0.68165795	HASPIN	0.510929925
CDCA8	0.641631396	MAD2L1	0.656280951
NCAPG0	0.61302592	EME1	0.5193216
CENPI	0.712138895	ASPM	0.620829091
CDK1	0.699164631	TRIP13	0.667102073
HJURP	0.703444779	CEP55	0.978111473
GTSE1	0.715364772	CDC6	0.741029374
MELK	0.640516629	DEPDC1B	0.835381528
CENPE	0.762804349	ZWILCH	0.18794166
MCM100	0.71600505	SPC25	0.539333113
RAD51AP1	0.450228624	FAM72B	0.580196376
CENPK	0.427419683	RRM2	0.462637565
STIL	0.551929804	CDCA5	0.592500023
FANCD2	0.49830215	TROAP	0.703322675
NEK2	0.617518664	HMMR	0.468944271
ERCC6L	0.753608235	RAD51	0.484322594
GINS1	0.542130598	WDR620	0.636712163
CCNB2	0.566808874	PBK	0.612972775
ECT2	0.609155174	CCNB1	0.53277189
PLK4	0.589155238	KIF2C	0.850629865
KIF20A	0.666342435	CDC45	0.587820737
DLGAP5	0.842234397	CENPA	0.82550885
MKI67	0.714459478	CCNF	0.517905327
SGO1	0.603345374	CLSPN	0.735642476
NUF2	0.713201875	SKA1	0.834921388
CIP2A	0.729293151	C5orf340	0.410339336
RAD54L	0.809560913	RBL1	0.512606308
LMNB1	0.388404628	BARD1	0.572677153
PARPBP	0.40776461	BRCA1	0.381392881
TTK	0.699862747	KIF20B	0.343531518
XRCC2	0.453887448	ORC1	0.616479031
UHRF1	0.698796057	ORC6	0.638443613
GPSM20	0.623014156	PCLAF	0.549284804
KIF14	0.700107334	E2F2	0.708964857
EXO1	0.705120252	CDCA3	0.562907112
KIF15	0.631061966	PSMC3IP	0.362717635
PLK1	0.829446028	HROB	0.365176912
SPDL1	0.318724888	PIF1	0.522665609

Supplementary Table 2. The expression of the top 300 PRC1 co-expressed genes in LIHC dataset in TCGA database

gene	Log2FC	gene	Log2FC
DBF4B	0.312861993	TOPBP1	0.256128487
ESCO2	0.59095814	DONSON	0.160810857
FAM72A	0.489266959	TIMELESS	0.170146779
NCAPD2	0.474152866	TYMS	0.488545452
MCM6	0.440892003	EMC3-AS1	0.489691484
DNMT1	0.320508855	POLA1	0.396159007
KNSTRN	0.162258725	FBXO43	0.222177667
MMS22L	0.42630918	DNAJC9	0.124935469
CHAF1B	0.705531467	E2F1	0.486651945
PKMYT1	0.638191771	MSH2	0.245395539
SHCBP1	0.905898567	FAM111B	0.328591578
HMGB2	0.324668771	FEN1	0.255979766
FANCB	0.538410002	MCM7	0.447840648
GAS2L3	0.689716393	CENPU	0.485627941
MCM8	0.3797564	LIN9	0.393337312
CIT	0.549822453	MTBP	0.2538593
FANCG	0.289033339	POLD1	0.315802104
TACC3	0.54729995	CDCA4	0.40559456
BRCA2	0.332222789	ESPL1	0.525307336
AC112777.1	0.792726575	CKAP5	0.141167456
CDC25C	0.443969961	CEP152	0.333432933
BIRC5	0.759817598	PRIM2	0.213199372
ARHGEF39	0.428619846	SPATS2	0.343551221
CHEK1	0.450443085	MASTL	0.256974232
KPNA2	0.447695464	MIS18A	0.225303952
NEMP1	0.331128778	DDIAS	0.495990458
MYO190	0.306509133	CDC7	0.464400293
MCM3	0.338981505	DIAPH3	0.110007735
CDKN3	0.404920472	RRM1	0.195258786
RFC4	0.354407536	TUBA1B	0.353294984
LIG1	0.221009286	PHF19	0.505145027
MYBL2	0.820969949	RHNO1	0.254681653
KIF24	0.506677283	AURKB	0.666968819
CENPH	0.355390148	SMC4	0.39934797
SPAG5	0.352220162	TRIM59	0.540154988
MCM4	0.273079731	CENPM	0.677701964
CHAF1A	0.199541335	KIAA1841	0.340377372
BLM	0.435922861	ILF3	0.150327495
C21orf58	0.330795032	NUP107	0.210654255
INCENP	0.306175197	CPSF6	0.203906588
NSD2	0.229563681	E2F7	0.734645372
DBF4	0.323179365	NUP155	0.156234556
CDT1	0.462349172	CCNE2	0.563784259
RFC5	0.170079098	FBXO5	0.546071296
UBE2C	0.860527665	SASS6	0.316272537
MCM5	0.232023914	NDC1	0.281008653
C4orf46	0.40510741	RAD1	0.121656505
DSN1	0.176314324	CKAP2	0.327110238
CDC25A	0.522759413	SMPD4	0.122767118
CDC20	0.853128835	CENPQ	0.286966296
GINS4	0.412340466	XRCC3	0.173742995
CBX1	0.240493363	GINS3	0.383538974
MTFR2	0.612737333	SUZ12	0.151560983
STMN1	0.399717996	PCNA	0.28385525
UBE2T	0.490494804	ACTL6A	0.197693145
CENPO	0.48005077	SMC2	0.379873349
CDK2	0.263741621	AURKA	0.130931264
		RTKN2	0.503678767
		TRAIP	0.530491055
		ZNF207	0.13051535

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gene	Log2FC
RAD18	0.209832774
MGME1	0.087412552
TMPO	0.052291687
CASP2	0.227390702
NUP205	0.231517871
BRIP1	0.30006232
DDX12P	0.255162991
HNRNPL	0.094348352
DNA2	0.299160714
GMPS	0.166080593
USP1	0.348903215
NEDD1	0.241116893
SLC25A19	0.280724894
TEDC2	0.521287938
ANKLE2	0.135860882
SUV39H2	0.188547429
CEP250	0.16231527
HNRNPA3	0.086087087
H2AZ1	0.324909617
RMI2	0.510035388
RNF34	0.171478287
TTF2	0.283476602
SMARCD1	0.165622024
NUP85	0.224538612
HSPA14	0.187164069
CBFA2T2	0.147757081
NEIL3	0.75511675
NDE1	0.317495984
RFC3	0.13637812
LMNB2	0.595731941
SSRP1	0.137094717
CEP78	0.212247915
DCLRE1B	0.274548949
RFWD30	0.238032072
ARHGAP33	0.365949268
PTTG1	0.667542427
RAD51D	0.267616837
MYBL1	0.402312084
TUBG1	0.186692019
TMPO-AS1	0.083050322
BORA	0.276015672
AUNIP	0.547065961
CENPJ	0.359279181
MAPKAPK5	0.077530171
SLBP	0.119680496
ZNF724	0.311972803
SRRT	0.12913508
KPNB1	0.233628062
NRM	0.577063029
U2SURP	0.087106183
COMMD2	0.057439966
PRKCI	0.183288954
TTI1	0.087460276
SRSF2	0.062384168
ZGRF1	0.340022672
SENP1	0.149003245
FANCE	0.404489732
POLD3	0.200412941

gene	Log2FC
VRK1	0.170551953
MACROH2A1	0.13858448
PPHLN1	0.09484003
SART3	0.098679921
USP39	0.127652446