

**Table S1** Correlation between GDSC drug sensitivity and PBLD mRNA expression

Symbol	Drug	Cor	FDR
PBLD	SN-38	0.155549	4.19E-05
PBLD	QL-VIII-58	0.147296	0.016021
PBLD	UNC0638	0.14285	3.02E-05
PBLD	CAY10603	0.142015	5.05E-05
PBLD	Vinblastine	0.139867	0.00041
PBLD	THZ-2-102-1	0.13976	7.61E-05
PBLD	FK866	0.138729	8.8E-05
PBLD	Camptothecin	0.136367	0.000517
PBLD	YM155	0.134191	0.001553
PBLD	(5Z)-7-Oxozeaenol	0.133995	0.000316
PBLD	NPK76-II-72-1	0.130716	0.000163
PBLD	Methotrexate	0.127412	0.000467
PBLD	ZG-10	0.12582	0.03234
PBLD	SNX-2112	0.125297	0.000425
PBLD	Vorinostat	0.116568	0.001349
PBLD	CUDC-101	0.115623	0.001349
PBLD	PHA-793887	0.114264	0.001066
PBLD	Belinostat	0.110801	0.002383
PBLD	Etoposide	0.109798	0.008791
PBLD	Tubastatin A	0.108141	0.002249
PBLD	AT-7519	0.107211	0.002453
PBLD	AR-42	0.106576	0.002742
PBLD	IPA-3	0.094209	0.014284
PBLD	PLX4720	0.092114	0.018281
PBLD	KIN001-260	0.092088	0.0106
PBLD	Gemcitabine	0.090772	0.041804
PBLD	MPS-1-IN-1	0.086091	0.020744
PBLD	BX-912	0.086083	0.015711
PBLD	NG-25	0.084066	0.019629
PBLD	XMD13-2	0.083039	0.021145
PBLD	CX-5461	0.08278	0.02365
PBLD	Foretinib	0.080613	0.040959
PBLD	Navitoclax	0.078944	0.035187
PBLD	TL-1-85	0.077762	0.032608
PBLD	Phenformin	0.077528	0.036603
PBLD	Bleomycin (50 uM)	0.076376	0.035651
PBLD	BHG712	0.072109	0.048612
PBLD	XAV939	-0.07655	0.047581
PBLD	LY317615	-0.09112	0.025473
PBLD	UNC1215	-0.09222	0.041494
PBLD	Cetuximab	-0.09424	0.016499
PBLD	BMS-708163	-0.10011	0.009991
PBLD	EHT 1864	-0.10495	0.044361
PBLD	GSK1904529A	-0.12165	0.003587
PBLD	AKT inhibitor VIII	-0.13481	0.000982
PBLD	TGX221	-0.14829	0.014556
PBLD	LFM-A13	-0.14859	0.000724
PBLD	SGC0946	-0.16003	0.000233

**Table S2** Correlation between CTRP drug sensitivity and *PBLD* mRNA expression

Symbol	Drug	Cor	FDR
<i>PBLD</i>	alvocidib	0.251863	5.8E-06
<i>PBLD</i>	dinaciclib	0.249762	4.62E-06
<i>PBLD</i>	leptomycin B	0.207577	1.21E-08
<i>PBLD</i>	niclosamide	0.196738	8.96E-07
<i>PBLD</i>	COL-3	0.195259	1.18E-05
<i>PBLD</i>	doxorubicin	0.194952	9.99E-08
<i>PBLD</i>	rigosertib	0.188736	7.34E-07
<i>PBLD</i>	pevonedistat	0.187197	1.21E-06
<i>PBLD</i>	BRD-K66453893	0.183251	1.01E-06
<i>PBLD</i>	SN-38	0.181379	1.58E-05
<i>PBLD</i>	docetaxel	0.180591	0.001856
<i>PBLD</i>	SNS-032	0.179706	6.88E-06
<i>PBLD</i>	MST-312	0.177916	2.78E-06
<i>PBLD</i>	CD-437	0.177167	2.47E-06
<i>PBLD</i>	clofarabine	0.17616	1.8E-06
<i>PBLD</i>	isoevodiamine	0.174976	2.84E-06
<i>PBLD</i>	vincristine	0.1737	1.78E-06
<i>PBLD</i>	AZD7545	0.172092	2.46E-05
<i>PBLD</i>	teniposide	0.17023	0.001369
<i>PBLD</i>	etoposide	0.167125	7.86E-06
<i>PBLD</i>	entinostat	0.165733	1.29E-05
<i>PBLD</i>	NSC 74859	0.163568	0.000592
<i>PBLD</i>	GSK461364	0.162983	1.54E-05
<i>PBLD</i>	gemcitabine	0.162903	3.45E-05
<i>PBLD</i>	CR-1-31B	0.160621	1.45E-05
<i>PBLD</i>	CHM-1	0.159889	1.94E-05
<i>PBLD</i>	SB-225002	0.15925	1.7E-05
<i>PBLD</i>	MLN2238	0.158817	3.5E-05
<i>PBLD</i>	BMS-345541	0.156474	5.08E-05
<i>PBLD</i>	BRD-K70511574	0.155507	3.84E-05
<i>PBLD</i>	KX2-391	0.154062	4.78E-05
<i>PBLD</i>	narciclasine	0.153769	5.5E-05
<i>PBLD</i>	methotrexate	0.153255	0.000143
<i>PBLD</i>	BRD-K61166597	0.152678	0.000102
<i>PBLD</i>	triazolothiadiazine	0.152103	3.87E-05
<i>PBLD</i>	BI-2536	0.151699	3.9E-05
<i>PBLD</i>	nakiterpiosin	0.1508	7E-05
<i>PBLD</i>	cytarabine hydrochloride	0.150747	5.39E-05
<i>PBLD</i>	LY-2183240	0.150721	5.61E-05
<i>PBLD</i>	ceranib-2	0.150047	5.92E-05
<i>PBLD</i>	YK 4-279	0.149899	6.67E-05
<i>PBLD</i>	GW-843682X	0.149477	0.000173
<i>PBLD</i>	KPT185	0.149166	0.000843
<i>PBLD</i>	topotecan	0.147637	7.26E-05
<i>PBLD</i>	belinostat	0.147449	0.007823
<i>PBLD</i>	Merck60	0.146235	0.000101
<i>PBLD</i>	curcumin	0.145859	0.000132
<i>PBLD</i>	manumycin A	0.143996	0.000139
<i>PBLD</i>	FQI-2	0.142383	0.000144
<i>PBLD</i>	SNX-2112	0.142276	0.000135
<i>PBLD</i>	CIL41	0.141162	0.030142
<i>PBLD</i>	mitomycin	0.140873	0.000217
<i>PBLD</i>	3-CI-AHPC	0.140828	0.000219
<i>PBLD</i>	SCH-79797	0.138169	0.000317
<i>PBLD</i>	SR-II-138A	0.138012	0.000185
<i>PBLD</i>	BRD1812	0.134764	0.000617
<i>PBLD</i>	obatoclax	0.133521	0.000467
<i>PBLD</i>	N9-isopropylolomoucine	0.132971	0.000898
<i>PBLD</i>	VER-155008	0.132148	0.001162
<i>PBLD</i>	chlorambucil	0.13163	0.000673
<i>PBLD</i>	necrosulfonamide	0.131132	0.005298
<i>PBLD</i>	parbendazole	0.13098	0.000425
<i>PBLD</i>	GDC-0879	0.129878	0.004811
<i>PBLD</i>	NSC48300	0.129856	0.000733
<i>PBLD</i>	FQI-1	0.128514	0.019832
<i>PBLD</i>	PHA-793887	0.127272	0.000708
<i>PBLD</i>	brivanib	0.125014	0.001727
<i>PBLD</i>	bardoxolone methyl	0.124251	0.002776
<i>PBLD</i>	paclitaxel	0.124141	0.001268
<i>PBLD</i>	omacetaxine mepesuccinate	0.123715	0.006401
<i>PBLD</i>	PF-184	0.121686	0.001838
<i>PBLD</i>	ML311	0.12105	0.001314
<i>PBLD</i>	LE-135	0.118201	0.005132
<i>PBLD</i>	apicidin	0.117729	0.0018
<i>PBLD</i>	ISOX	0.117657	0.002157
<i>PBLD</i>	bendamustine	0.116425	0.005687
<i>PBLD</i>	BRD-A02303741	0.116108	0.019761
<i>PBLD</i>	ouabain	0.115502	0.002404
<i>PBLD</i>	marinopyrole A	0.114641	0.023044
<i>PBLD</i>	PLX-4720	0.113709	0.048491
<i>PBLD</i>	panobinostat	0.111814	0.003124
<i>PBLD</i>	decitabine	0.111408	0.003213
<i>PBLD</i>	RAF265	0.111347	0.028946
<i>PBLD</i>	WP1130	0.110275	0.005915
<i>PBLD</i>	BRD-K66532283	0.109467	0.006311
<i>PBLD</i>	Mdivi-1	0.107676	0.008883
<i>PBLD</i>	bortezomib	0.10637	0.007092
<i>PBLD</i>	dacarbazine	0.106167	0.006338
<i>PBLD</i>	NVP-231	0.106052	0.006229
<i>PBLD</i>	ruxolitinib	0.103005	0.011898
<i>PBLD</i>	zebularine	0.102956	0.009197
<i>PBLD</i>	SB-743921	0.100997	0.007254
<i>PBLD</i>	phloretin	0.100205	0.010867
<i>PBLD</i>	NSC95397	0.099832	0.015186
<i>PBLD</i>	BRD-K35604418	0.098976	0.012358
<i>PBLD</i>	MK-1775	0.098789	0.012032
<i>PBLD</i>	CAY10618	0.097896	0.013185
<i>PBLD</i>	AZD7762	0.096905	0.012343
<i>PBLD</i>	momelotinib	0.096481	0.017835
<i>PBLD</i>	daporinad	0.09575	0.030557
<i>PBLD</i>	NSC632839	0.095473	0.01344
<i>PBLD</i>	OSI-930	0.094383	0.032901
<i>PBLD</i>	BRD-K97651142	0.089235	0.032142
<i>PBLD</i>	valdecoxib	0.088608	0.028168
<i>PBLD</i>	ML239	0.087122	0.038307
<i>PBLD</i>	STF-31	0.08698	0.032903
<i>PBLD</i>	B02	0.081193	0.046603
<i>PBLD</i>	vorinostat	0.081013	0.038028
<i>PBLD</i>	BRD-K34222889	0.078667	0.043299
<i>PBLD</i>	PL-DI	0.078446	0.045861
<i>PBLD</i>	saracatinib	-0.09787	0.02708
<i>PBLD</i>	RITA	-0.11336	0.005399
<i>PBLD</i>	vandetanib	-0.12485	0.006043
<i>PBLD</i>	cediranib	-0.1901	0.033572