

**Table S1.** Summary of Spearman's correlation between FBXO5 expression and drug resistance or sensitivity (IC50 value) in cancer cell lines based upon the GDSC2 dataset.

No.	Drug name	Correlation	p-value	Label
1	ERK_2440	0.082539432	0.026152616	positive
2	PD0325901	0.104192562	0.003154309	positive
3	ERK_6604	0.124034271	0.000810424	positive
4	SCH772984	0.177382097	4.43E-07	positive
5	Selumetinib	0.187303327	3.71E-07	positive
6	Trametinib	0.245383684	5.56E-12	positive
7	BMS-754807	0.3329105	0.027236223	positive
No.	Drug name	Correlation	p-value	Label
1	BI-2536	-0.500302024	0.000634551	negative
2	Tozasertib	-0.497720365	0.000318912	negative
3	MK-1775	-0.318515525	1.60E-19	negative
4	Venetoclax	-0.309405445	3.61E-18	negative
5	MK-8776	-0.29746105	1.05E-16	negative
6	Wee1 Inhibitor	-0.291228999	3.63E-16	negative
7	Temozolomide	-0.288061682	9.69E-16	negative
8	AZD7762	-0.28779851	5.83E-16	negative
9	Teniposide	-0.284267651	5.82E-15	negative
10	Zoledronate	-0.28255679	8.57E-15	negative
11	AMG-319	-0.280042932	7.14E-15	negative
12	Vorinostat	-0.277224577	8.68E-15	negative
13	MIRA-1	-0.276678853	1.31E-14	negative
14	Alisertib	-0.274576337	4.85E-14	negative
15	Daporinad	-0.272947218	6.44E-08	negative
16	MIM1	-0.269020486	6.96E-14	negative
17	Olaparib	-0.268724708	5.27E-14	negative
18	AZD5991	-0.267230384	2.85E-13	negative
19	Leflunomide	-0.266355604	2.95E-13	negative
20	Navitoclax	-0.265128902	1.75E-13	negative
21	ABT737	-0.262400021	3.04E-13	negative
22	VE821	-0.262124263	4.15E-13	negative
23	Cisplatin	-0.261407424	2.04E-13	negative
24	YK-4-279	-0.260689804	4.22E-13	negative
25	WEHI-539	-0.254895925	1.42E-12	negative
26	EPZ5676	-0.254638458	2.82E-13	negative
27	Vincristine	-0.25337745	5.20E-12	negative
28	IWP-2	-0.253192281	4.56E-12	negative
29	I-BRD9	-0.25227519	2.45E-12	negative
30	EPZ004777	-0.251183677	6.01E-13	negative
31	VE-822	-0.250008189	8.29E-12	negative
32	AZD6738	-0.249760665	4.09E-12	negative
33	Nelarabine	-0.249564419	9.34E-12	negative

34	Niraparib	-0.246431236	1.67E-11	negative
35	Pyridostatin	-0.245377001	1.05E-11	negative
36	Vinblastine	-0.244965295	1.14E-11	negative
37	AZD1208	-0.244711484	2.40E-11	negative
38	GSK2578215A	-0.242265895	1.82E-11	negative
39	PD173074	-0.241242488	1.85E-11	negative
40	PFI3	-0.241126959	4.60E-11	negative
41	BIBR-1532	-0.240251056	2.96E-11	negative
42	Vinorelbine	-0.239359757	3.52E-11	negative
43	Sabutoclax	-0.238763993	7.63E-11	negative
44	Sorafenib	-0.238535268	3.24E-11	negative
45	Irinotecan	-0.238059093	9.59E-12	negative
46	Mitoxantrone	-0.23771499	8.74E-11	negative
47	BMS-345541	-0.237254378	9.52E-11	negative
48	PCI-34051	-0.236608179	1.07E-10	negative
49	KRAS (G12C) Inhibitor-12	-0.235247575	1.38E-10	negative
50	Cyclophosphamide	-0.235134551	7.44E-11	negative
51	Ruxolitinib	-0.234712892	1.52E-10	negative
52	CZC24832	-0.234235032	1.66E-10	negative
53	PRIMA-1MET	-0.233868531	1.78E-10	negative
54	Podophyllotoxin bromide	-0.233532951	1.89E-10	negative
55	Picolinici-acid	-0.23086797	3.07E-10	negative
56	Gallibiscoquinazole	-0.230116058	3.52E-10	negative
57	AZ960	-0.225865061	8.14E-10	negative
58	Elephantin	-0.225625001	7.83E-10	negative
59	Carmustine	-0.225068335	8.64E-10	negative
60	Wnt-C59	-0.225009222	8.73E-10	negative
61	RVX-208	-0.222864237	1.30E-09	negative
62	Nilotinib	-0.221872088	7.31E-10	negative
63	Eg5_9814	-0.221295272	1.85E-09	negative
64	GSK1904529A	-0.220385256	3.11E-10	negative
65	P22077	-0.220156729	1.13E-09	negative
66	ML323	-0.21833603	2.77E-09	negative
67	AGI-5198	-0.217800019	1.71E-09	negative
68	IAP_5620	-0.215505112	4.81E-09	negative
69	AGI-6780	-0.215151074	4.75E-09	negative
70	Camptothecin	-0.213664573	9.37E-10	negative
71	ULK1_4989	-0.21305363	7.06E-09	negative
72	LY2109761	-0.213053234	6.74E-09	negative
73	PAK_5339	-0.212716409	7.29E-09	negative
74	AT13148	-0.212010447	5.48E-09	negative
75	JAK_8517	-0.211772847	8.33E-09	negative
76	Entinostat	-0.210943435	8.29E-09	negative
77	IRAK4_4710	-0.207610973	1.64E-08	negative

78	GSK343	-0.20725207	1.78E-08	negative
79	Talazoparib	-0.207128326	1.16E-08	negative
80	LJI308	-0.205700675	1.53E-08	negative
81	LGK974	-0.20555479	4.42E-09	negative
82	Topotecan	-0.20521324	2.41E-08	negative
83	BPD-00008900	-0.20270901	2.19E-08	negative
84	Cytarabine	-0.19918628	3.85E-08	negative
85	GDC0810	-0.197515461	5.03E-08	negative
86	Savolitinib	-0.196568716	5.96E-08	negative
87	Tamoxifen	-0.19579327	6.08E-08	negative
88	JAK1_8709	-0.195093144	1.17E-07	negative
89	I-BET-762	-0.195018807	1.20E-07	negative
90	Epirubicin	-0.194775494	7.73E-08	negative
91	Paclitaxel	-0.194057112	7.83E-08	negative
92	Fludarabine	-0.193305232	1.53E-07	negative
93	Oxaliplatin	-0.191596385	4.58E-14	negative
94	Pevonedistat	-0.191410651	1.35E-07	negative
95	Gemcitabine	-0.191139022	1.26E-07	negative
96	GSK591	-0.187803636	2.56E-07	negative
97	CDK9_5038	-0.185709769	4.76E-07	negative
98	IGF1R_3801	-0.185029592	5.25E-07	negative
99	AZD4547	-0.184597183	3.38E-07	negative
100	UMI-77	-0.18451651	3.67E-07	negative
101	Crizotinib	-0.184427281	4.96E-07	negative
102	Foretinib	-0.184312453	3.92E-07	negative
103	Mirin	-0.18144279	8.60E-07	negative
104	LCL161	-0.180676618	9.74E-07	negative
105	Sinularin	-0.177323252	1.53E-06	negative
106	Fulvestrant	-0.174620056	1.20E-11	negative
107	XAV939	-0.17319995	2.68E-06	negative
108	AZD5438	-0.172768409	2.84E-06	negative
109	NVP-ADW742	-0.172292811	2.11E-06	negative
110	OTX015	-0.170362303	3.91E-06	negative
111	Linsitinib	-0.169698218	1.38E-06	negative
112	Telomerase Inhibitor IX	-0.168424923	3.57E-06	negative
113	MG-132	-0.168408727	2.65E-06	negative
114	Docetaxel	-0.167899544	1.67E-10	negative
115	AZD5582	-0.162045083	1.35E-05	negative
116	WIKI4	-0.159627078	1.15E-05	negative
117	Dinaciclib	-0.158693116	1.76E-05	negative
118	Dabrafenib	-0.157986852	1.33E-05	negative
119	CDK9_5576	-0.157693917	2.00E-05	negative
120	Staurosporine	-0.156181181	1.36E-05	negative
121	Sepantronium bromide	-0.154834267	2.08E-05	negative

122	Buparlisib	-0.153893862	2.34E-05	negative
123	MK-2206	-0.151472493	2.53E-05	negative
124	GSK2606414	-0.151286509	4.64E-05	negative
125	Bortezomib	-0.150530082	3.36E-05	negative
126	TAF1_5496	-0.149718309	5.18E-05	negative
127	AZD5153	-0.146246574	7.74E-05	negative
128	PRT062607	-0.145402504	8.43E-05	negative
129	Obatoclox Mesylate	-0.142030926	0.000123122	negative
130	BDP-00009066	-0.141532097	0.000101682	negative
131	MN-64	-0.138727368	0.000177097	negative
132	AZD5363	-0.138578355	0.000142016	negative
133	Palbociclib	-0.13791501	0.000128607	negative
134	AZ6102	-0.132145101	0.000304078	negative
135	Cediranib	-0.126998936	0.000493978	negative
136	Dactinomycin	-0.122387614	2.67E-06	negative
137	Afuresertib	-0.121198559	0.000895547	negative
138	Luminespib	-0.117954879	0.000823354	negative
139	OF-1	-0.117237334	0.001554226	negative
140	Uprosertib	-0.114479387	1.05E-05	negative
141	Ipatasertib	-0.110026545	0.002567069	negative
142	Rapamycin	-0.103782023	0.004656729	negative
143	Alpelisib	-0.103071605	0.003496358	negative
144	AZD1332	-0.102851814	0.005539496	negative
145	Entospletinib	-0.099933008	0.007044311	negative
146	Dihydrorotenone	-0.094396799	0.011045822	negative
147	5-Fluorouracil	-0.092201702	0.008985375	negative
148	Nutlin-3a (-)	-0.09177498	0.010889233	negative
149	Ibrutinib	-0.088225125	0.017733709	negative
150	Afatinib	-0.086198805	0.014673962	negative
151	AZD3759	-0.083943365	0.020896558	negative
152	Dactolisib	-0.080667642	0.027271299	negative
153	Erlotinib	-0.074826671	0.040628966	negative

No.	Drug name	Correlation	p-value	Label
1	ZM447439	-0.19553654	0.187774855	ns
2	RO-3306	-0.149261832	0.311278209	ns
3	NU7441	-0.127312673	0.393777526	ns
4	Axitinib	-0.118469388	0.417515923	ns
5	VSP34_8731	-0.067482249	0.069185491	ns
6	PLX-4720	-0.059709486	0.092696145	ns
7	BMS-536924	-0.058117276	0.112007875	ns
8	WZ4003	-0.057188327	0.123680003	ns
9	KU-55933	-0.052757273	0.72174586	ns
10	JQ1	-0.050763182	0.734713524	ns
11	GSK269962A	-0.046026921	0.756072145	ns

12	AZD6482	-0.045097132	0.763415789	ns
13	Dasatinib	-0.044894826	0.217277184	ns
14	Osimertinib	-0.039863347	0.275895698	ns
15	Lapatinib	-0.03386753	0.353047651	ns
16	Gefitinib	-0.033074574	0.366039973	ns
17	OSI-027	-0.022034015	0.722597479	ns
18	SB505124	-0.014624506	0.924038004	ns
19	Taselisib	-0.014123399	0.689808231	ns
20	AZD8186	-0.010462521	0.774980423	ns
21	Pictilisib	-0.008487774	0.814928314	ns
22	GNE-317	-0.003195077	0.93108951	ns
23	Ulixertinib	0.02288514	0.376569435	ns
24	AZD2014	0.024624109	0.507690109	ns
25	Sapitinib	0.031067416	0.380184141	ns
26	Acetalax	0.049966778	0.178675472	ns
27	VX-11e	0.06173859	0.092638064	ns
28	AZD8055	0.063546298	0.545084518	ns
29	Doramapimod	0.092568609	0.540624669	ns
30	Ribociclib	0.121060746	0.422881883	ns
31	SB216763	0.1454597	0.164164175	ns
32	PF-4708671	0.145570994	0.323528874	ns

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“ns” denotes no significance.