
Supplementary information

**Structural basis for SHOC2 modulation of
RAS signalling**

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Supplementary Information Table 1: List of cell lines highly co-dependent on SHOC2 and KRAS, NRAS or HRAS according to DepMap CRISPR KO dataset. Cell lines are defined as highly codependent when Chronos scores are both less than -0.75 (indicated in red).

N	Cell line name	KRAS chronos	NRAS chronos	HRAS chronos	SHOC2 chronos	Lineage	Hugo Symbol	Protein Change
1	IPC298	-0.14	-1.30	-0.11	-1.29	skin	NRAS	p.Q61L
2	NB4	-1.53	-0.15	-0.11	-1.17	blood	KRAS	p.A18D
3	AML193	-0.33	-1.75	-0.15	-1.17	blood	NRAS	p.G13V
4	RPE1SS6	-1.62	-0.13	-0.16	-1.17	engineered		
5	SHI1	-1.17	0.035	-0.21	-1.13	blood	KRAS	p.Q61H
6	G415	-1.56	0.23	0.11	-1.11	bile_duct	KRAS	p.G13D
7	LS1034	-1.76	-0.31	-0.08	-1.08	colorectal	KRAS	p.A146T
8	SKMEL2	-0.31	-1.33	-0.07	-1.08	skin	NRAS	p.Q61R
9	HT1080	-0.31	-1.42	-0.20	-1.04	soft_tissue	NRAS	p.Q61K
10	SNU620	-1.46	-0.16	-0.27	-1.04	gastric		
11	CHP212	-0.48	-1.13	-0.03	-1.01	peripheral_nervous_system	NRAS	p.Q61K
12	CALU6	-1.61	-0.08	-0.04	-1.0	lung	KRAS	p.G60G
12	CALU6	-1.61	-0.08	-0.04	-1.0	lung	KRAS	p.Q61K
13	ICC3	-1.04	-0.22	-0.34	-0.99	bile_duct	KRAS	p.G12D
14	ONS76	-0.25	-0.96	-0.07	-0.99	central_nervous_system	NRAS	p.Q61R
15	NCIH1915	-0.32	-0.27	-1.05	-0.98	lung	HRAS	p.Q61L
16	CCLFUPGI0005T	-1.24	-0.21	-0.16	-0.97	gastric		
17	TT2609C02	-0.29	-1.57	-0.06	-0.96	thyroid	NRAS	p.Q61R
18	BE2M17	-0.76	-0.06	-0.06	-0.94	peripheral_nervous_system		
19	HS936T	-0.48	-1.59	-0.24	-0.93	skin	NRAS	p.Q61K
20	NCIH2087	-0.38	-1.13	-0.12	-0.91	lung	NRAS	p.Q61K
21	NCIH2087	-0.38	-1.13	-0.12	-0.91	lung	NRAS	p.A59A
22	RCM1	-1.86	0.11	-0.03	-0.91	colorectal	KRAS	p.G12V

23	HEPG2	-0.43	-1.72	-0.09	-0.90	liver	NRAS	p.Q61L
24	MM127	-0.40	-1.58	-0.32	-0.88	skin		
25	SKMEL30	-0.19	-1.44	-0.20	-0.87	skin	NRAS	p.G60G
25	SKMEL30	-0.19	-1.44	-0.20	-0.87	skin	NRAS	p.Q61K
26	HS766T	-1.09	-0.24	-0.15	-0.85	pancreas	KRAS	p.Q61H
27	MM485	-0.45	-1.04	-0.38	-0.83	skin	NRAS	p.Q61R
28	TYKNU	-0.08	-1.37	-0.24	-0.83	ovary	NRAS	p.Q61K
28	TYKNU	-0.08	-1.37	-0.24	-0.83	ovary	NRAS	p.G12D
29	LI7	-0.82	-0.29	-0.09	-0.81	liver		
30	DIFI	-1.32	-0.29	0.00	-0.79	colorectal		
31	MELJUSO	-0.41	-1.45	-0.88	-0.79	skin	HRAS	p.G13D
31	MELJUSO	-0.41	-1.45	-0.88	-0.79	skin	NRAS	p.Q61L
32	RBE	-1.06	0.00	-0.16	-0.79	bile_duct	KRAS	p.G12V
33	RPE1SS48	-1.38	-0.36	-0.46	-0.76	engineered		
34	SW579	-1.43	-0.06	0.10	-0.76	thyroid		