

Table S1

A.

	Parental SNU-16	AZD-R			
		Clone 1	Clone 2	Clone 3	Clone 4
AZD4547	0.0053	5.4	5.0	5.5	5.1
BGJ398	0.0073	2.1	1.9	2.6	2.2
PD173074	0.0034	5.4	5.2	5.5	5.7
AZD2171	0.25	5.3	6.1	5.9	6.4
erlotinib	3.0	15	10	34	16
lapatinib	5.8	5.7	6.0	5.9	5.6
crizotinib	1.5	1.5	1.5	1.6	1.6
OSI-906	0.76	4.4	5.6	2.7	3.3
CH4987655	2.5	0.025	0.044	0.079	0.022
trametinib	0.28	0.0042	0.0049	0.0072	0.0029
PD0325901	5.6	0.017	0.031	0.048	0.015
GDC-0941	1.4	3.3	0.86	1.8	2.7
MK-2206	4.2	4.6	1.8	3.9	5.5
LY3009120	0.66	0.15	0.20	0.28	0.17
AZ628	2.5	0.20	0.40	0.52	0.23
BGB659	0.75	0.25	0.36	0.51	0.26
vemurafenib	9.0	10	12	9.2	12
PLX4720	>20	>20	>20	>20	>20
5-FU	6.5	9.8	17	9.8	12
Oxaliplatin	0.19	0.21	0.12	0.17	0.18

**B.**

Gene	ProbeName	Chr Name	start	stop	AZD-R Clone 1 log2 ratio	AZD-R Clone 2 log2 ratio	AZD-R Clone 3 log2 ratio	AZD-R Clone 4 log2 ratio
JHDM1D (NM_030647)	A_16_P18139550	chr7	139788809	139788868	2.2	2.9	2.2	2.6
JHDM1D (NM_030647)	A_16_P18139584	chr7	139797858	139797917	2.6	3.4	2.3	2.8
JHDM1D (NM_030647)	A_14_P110678	chr7	139816918	139816977	9.1	40.0	9.3	6.5
JHDM1D (NM_030647)	A_16_P38227312	chr7	139827227	139827286	9.8	43.6	10.5	6.8
JHDM1D (NM_030647)	A_16_P18139675	chr7	139838142	139838201	7.1	25.2	6.9	4.8
JHDM1D (NM_030647)	A_16_P01821525	chr7	139846608	139846667	9.1	46.4	9.3	6.7
JHDM1D (NM_030647)	A_16_P38227386	chr7	139855006	139855065	7.1	40.8	8.3	5.5
JHDM1D (NM_030647)	A_16_P38227417	chr7	139869130	139869189	10.6	42.4	8.6	6.8
BRAF (NM_004333)	A_16_P01822239	chr7	140441852	140441911	14.4	38.6	13.2	12.7
BRAF (NM_004333)	A_14_P113117	chr7	140453998	140454057	11.1	28.6	8.2	8.5
BRAF (NM_004333)	A_16_P01822272	chr7	140471767	140471826	13.5	37.1	10.6	11.1
BRAF (NM_004333)	A_14_P126051	chr7	140485436	140485495	15.0	26.3	11.8	12.1
BRAF (NM_004333)	A_16_P18141094	chr7	140496555	140496614	8.3	35.6	8.7	6.1
BRAF (NM_004333)	A_16_P18141117	chr7	140504487	140504546	7.4	28.1	7.5	5.3
BRAF (NM_004333)	A_16_P18141147	chr7	140515585	140515644	2.7	3.6	2.0	2.5
BRAF (NM_004333)	A_16_P18141162	chr7	140525380	140525439	2.1	2.9	2.1	2.5
BRAF (NM_004333)	A_14_P101856	chr7	140534481	140534535	2.6	3.5	2.4	2.7
BRAF (NM_004333)	A_16_P18141206	chr7	140542846	140542905	2.4	3.2	2.1	2.7
BRAF (NM_004333)	A_16_P18141224	chr7	140555114	140555173	2.2	3.1	2.1	2.5
BRAF (NM_004333)	A_16_P18141260	chr7	140571402	140571461	2.8	3.3	2.2	2.7
BRAF (NM_004333)	A_14_P125706	chr7	140584054	140584113	2.2	2.8	2.0	2.3
BRAF (NM_004333)	A_16_P18141300	chr7	140597073	140597132	2.7	3.4	2.2	2.6
BRAF (NM_004333)	A_16_P38229079	chr7	140610080	140610139	2.2	3.1	2.1	2.6
BRAF (NM_004333)	A_14_P124829	chr7	140620317	140620376	2.0	2.4	1.7	2.5

**Supplementary table S1. Summary of IC<sub>50</sub> and copy number of JHDM1D and BRAF in parental cells and AZD-R clones.**

A. IC<sub>50</sub> values (µM) calculated by non-linear regression analysis (GraphPad) are provided.

B. Log2 ratio of JHDM1D and BRAF in AZD-R Clone 1, 2, 3, and 4.