Supplementary Table S1. Genes whose expression is anti-correlated with PLX4720 IC_{50} in the CCLE dataset.

Gene	Pearson correlation	Anti-correlation rank	Gene	Pearson correlation	rank
			ZNF704	-0.66431	38
MITF	-0.7838	1	TRIM63	-0.66027	39
RNF144A	-0.76041	2	DCT	-0.65823	40
MLANA	-0.74993	3	PDZRN3	-0.65668	41
MXI1	-0.74011	4	DDT	-0.65663	42
CAPN3	-0.73785	5	ST3GAL6	-0.65006	43
RRAGD	-0.73391	6	PRR5	-0.64959	44
GPM6B	-0.73376	7	ESRP1	-0.64921	45
PECR	-0.73144	8	AP1S2	-0.64918	46
MREG	-0.73105	9	CHCHD6	-0.64886	47
C10orf108	-0.72985	10	RAI1	-0.64704	48
ANKRD44	-0.728	11	KCNN2	-0.64672	49
GALNT3	-0.72114	12	PIK3CB	-0.64549	50
GNPTAB	-0.72003	13	PLA1A	-0.64521	51
DIP2B	-0.71962	14	PROS1	-0.64258	52
TESK2	-0.7189	15	PPFIA1	-0.64135	53
PI15	-0.71342	16	ZFYVE16	-0.64127	54
WDR61	-0.71323	17	PMEL	-0.6409	55
SLC25A33	-0.71294	18	SPSB1	-0.64052	56
QDPR	-0.71132	19	LAMA1	-0.64028	57
BAHCC1	-0.7054	20	MOAP1	-0.63884	58
CPN1	-0.70512	21	TTYH2	-0.63777	59
C14orf109	-0.69932	22	LOC100653010	-0.63742	60
C17orf58	-0.69724	23	GRAMD4	-0.63352	61
LGALS3	-0.69096	24	STXBP1	-0.63344	62
FGD4	-0.68849	25	TBC1D16	-0.6333	63
PLEKHH1	-0.6872	26	SLC45A2	-0.62943	64
TNFRSF14	-0.68241	27	D4S234E	-0.62808	65
FAM210A	-0.68208	28	LOC100506661	-0.62786	66
RXRG	-0.67899	29	C11orf96	-0.62655	67
MAD2L1BP	-0.67836	30	KIAA1598	-0.62583	68
HS1BP3	-0.67735	31	USP54	-0.62419	69
RAB38	-0.67563	32	RASSF3	-0.62408	70
FMN1	-0.67334	33	EDNRB	-0.62387	71
CITED1	-0.67046	34	TIMM50	-0.62239	72
PIR	-0.66633	35	SIRPA	-0.62106	73
DTWD2	-0.6663	36	ANKRD54	-0.62014	74
TBC1D22A	-0.6655	37	KIAA0226L	-0.62014	75

Supplementary Table S2. Pre-treatment immunohistochemistry results and progression-free survival following dabrafenib + trametinib therapy.

sample	PFS (mo)	MITF staining		AXL staining	
		distribution	intensity	distribution	intensity
R4	5	diffuse	2	negative	0
R9	12	diffuse	1	negative	0
6A	21	diffuse	3	negative	0
19A	17	diffuse	2	negative	0
9A	7	negative	0	diffuse	2
R8	2	negative	0	focal	2
R10	3	negative	0	focal	2
11A	10	negative	0	focal	2
13A	9	negative	0	diffuse	2
22A	3	negative	0	focal	2
25A	3	negative	0	focal	2
12A	12	negative	0	diffuse	2