

## Immunosensitization of BRAFi-resistant melanoma by HDACi

**Supplemental Table 1.** Differential expression of apoptotic genes in (A) M238(VemR1) and M238(VemR2) and (B) and their regulation by SAHA as measured by real time qPCR analysis using apoptosis gene arrays (representative of two independent experiments, genes with > 2.5 fold mRNA changes are considered significant)

A. M238(VemR1) and M238(VemR2) compared to M238		M238(VemR1) vs M238	M238(VemR2) vs M238	
Gene name		Fold mRNA change		
DNA damage	CIDEA (CIDE-A)	12.85	17.4	
	CIDEB	-4.17	-4.68	
Other	GADD45A (RP5-975D15.1, DDIT1, GADD45)	-7.67	-8.41	
Antiapoptosis	AKT1 (AKT, PKB, RAC)	-9.1	-11.78	
	BAG1 (RP11-326F20.2, BAG-1, HAP)	-3.79	-6.06	
	BAG3 (BAG-3, BIS, CAIR-1)	-5.51	-6.21	
	BAG4 (BAG-4, SODD)	-5.99	-6.67	
	BCL2L1 (RP5-857M17.3, BCL-XL/S, BCL2L)	2.79	3.14	
	BCL2L2 (BCL-W, BCL2-L-2, BCLW)	-6.04	-6.95	
	BIRC3 (AIP1, API2, CIAP2)	3.93	3.58	
	BIRC8 (ILP-2, ILP2, hILP2)	6.7	7.35	
	BNIP1 (TRG8, NIP1, SEC20)	-6.25	-5.1	
	BNIP2 (BNIP-2, NIP2)	-6.72	-8.49	
	BNIP3 (NIP3)	-2.76	-2.93	
	DAPK1 (DAPK)	3.36	3.21	
	FAS (RP11-399O19.7, ALPS1A, APO-1)	-3.41	-4.46	
	MCL1 (BCL2L3, EAT, MCL1-ES)	-4.15	-4.73	
	NAIP (BIRC1, NLRB1, PSINAIP)	-3.41	-5.15	
	RIPK2 (WUGSC:H_RG437L15.1, CARD3, CARDIAK)	-3.57	-3.99	
	XIAP (RP1-315G1.5, API3, BIRC4)	-4.71	-5.36	
	Negative regulation	BCL10 (RP11-234D19.2, CARMEN, CIPER)	-3.02	-3.66
		DFFA (H13, DFF-45, DFF1)	-3.95	-4.89
TP53 (BCC7, LFS1, P53)		-4.07	-4.4	
TP73 (P73)		3.35	2.46	
Positive regulation	ABL1 (RP11-83J21.1, ABL, JTK7, BCR/ABL)	-2.62	-3.06	
	BAD (BBC2, BCL2L8)	-6.39	-10.39	
	BAK1 (BAK, BAK-LIKE, BCL2L7)	-5.05	-6.67	
	BAX (BCL2L4)	-6.15	-8.16	
	BCLAF1 (BTF, BK211L9.1)	-4.68	-7.67	
	BID (FP497)	-2.47	-3.22	
	CD70 (CD27L, CD27LG, TNFSF7)	-6.46	-5.9	
	FADD (GIG3, MORT1)	-12.13	-14.8	
	HRK (DP5, HARAKIRI)	4.34	3.04	
	NOD1 (CARD4, CLR7.1, NLRC1)	-2.68	-2.89	
	PYCARD (ASC, CARD5, TMS)	10.06	9.33	
	TP53BP2 (53BP2, ASPP2, BBP)	-3.13	-3.96	
	TRAF2 (MGC:45012, TRAP, TRAP3)	-8.5	-10.23	
	TRAF3 (CAP-1, CAP1, CD40BP)	-4.2	-4.99	
	TRAF4 (ICE, IL1BC, P45)	-4.13	-4.04	
	TNF/TNFR Domain Proteins	CD40 (BP50, CDW40, TNFRSF5)	5.4	5.91
		TNFSF10 (APO2L, APO-2L, CD253, TRAIL)	16.95	3.98
		TNFSF8 (CD153, CD30L, CD30LG)	2.55	2.89
		TNFRSF9 (4-1BB, CD137, CDW137)	6.15	7.22
BIR Domain Proteins	BIRC2 (API1, HIAP2, HIAP-2)	-3.93	-4.98	
Death domain Proteins	TNFRSF10B (DR5, CD262, KILLER)	-7.41	-7.34	
	TNFRSF11B (OCIF, OPG, TR1)	-1.87	-3.71	
	TNFRSF1A (CD120A, PPF, MS5)	-6.16	-8.53	
	TNFRSF21 (UNQ437/PRO868, BM-018, CD358)	-8.54	-7.86	
	TNFRSF25 (RP4-650H14.2, APO-3, DDR3)	2.55	1.59	
TRADD (HS.89862)	-3.49	-4.73		

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Caspases	CASP1 (ICE, IL1BC, P45)	6.67	5.03	
	CASP10 (ALPS2, FLICE2, MCH4)	4.94	4.62	
	CASP2 (CASP-2, ICH1, NEDD-2)	-15.96	-24.81	
	CASP3 (CPP32, CPP32B, SCA-1)	-6.64	-9.21	
	CASP6 (MCH2)	-7.54	-12.73	
	CASP7 (RP11-211N11.6, CASP-7, CMH-1)	-4.53	-3.7	
	CASP9 (RP11-265F14.3, APAF-3, APAF3)	-2.98	-3.89	
	Caspase activators	APAF1 (APAF-1, CED4)	-5.58	-5.95
		CARD8 (CARDINAL, DACAR, DAKAR)	-3.6	-4.91

### B. M238(VemR1) + SAHA and M238(VemR2) + SAHA compared to M238(VemR1) and M238(VemR2)

	Gene name	M238 (VemR1)	M238 (VemR2)
		+ SAHA vs M238 (VemR1)	+ SAHA vs M238 (VemR2)
		Fold mRNA change	
DNA damage	CIDEA (CIDE-A)	-4.42	1.44
	CIDEB	3.18	3.21
Other	GADD45A (RP5-975D15.1, DDIT1, GADD45)	3.24	3.65
Antiapoptosis	AKT1 (AKT, PKB, RAC)	10.33	13.51
	BAG3 (BAG-3, BIS, CAIR-1)	4.6	5.03
	BAG4 (BAG-4, SODD)	3	2.51
	BCL2A1 (ACC-1, ACC-2, BCL2L5)	2.96	2.02
	BCL2L2 (BCL-W, BCL2-L-2, BCLW)	3.56	3.77
	BIRC3 (AIP1, API2, CIAP2)	-8.76	-17.8
	BNIP1 (TRG8, NIP1, SEC20)	2.72	2.17
	BNIP2 (BNIP-2, NIP2)	3.27	4.32
	BNIP3L (BNIP3A, NIX)	1.61	2.61
	Negative regulation	TP53 (BCC7, LFS1, P53)	1.92
Positive regulation	ABL1 (RP11-83J21.1, ABL, JTK7, BCR/ABL)	2.08	2.53
	BAD (BBC2, BCL2L8)	5.84	8.23
	BAK1 (BAK, BAK-LIKE, BCL2L7)	3.93	4.55
	BAX (BCL2L4)	5	5.9
	CD70 (CD27L, CD27LG, TNFSF7)	4.33	4.8
	FADD (GIG3, MORT1)	9.53	11.23
	HRK (DP5, HARAKIRI)	-2.05	3.15
	TRAF2 (MGC,45012, TRAP, TRAP3)	3.27	3.61
	TRAF4 (ICE, IL1BC, P45)	4.44	5.07
	Death domain proteins	TNFRSF10B (DR5, CD262, KILLER)	4
TNFRSF11B (OCIF, OPG, TR1)		-2.39	-2.63
TNFRSF21 (UNQ437/PRO868, BM-018, CD358)		4.98	5.79
Caspases	CASP2 (CASP-2, ICH1, NEDD-2)	6.4	9.26
	CASP3 (CPP32, CPP32B, SCA-1)	2.85	3.63
	CASP6 (MCH2)	3.72	6.91
	CASP7 (RP11-211N11.6, CASP-7, CMH-1)	2.69	1.84
	CASP9 (RP11-265F14.3, APAF-3, APAF3)	2.38	3.34
	CFLAR (CASH, CASP8AP1, CLARP)	-5.03	-4.31
	Caspase activators	APAF1 (APAF-1, CED4)	6