

**Supplementary Table 1. List of shRNAs**

Name	ID MISSION® shRNA Library (Sigma Aldrich)	Target gene	NCBI accession number
shIL13RA2-1	TRCN0000058523	Human IL13RA2	NM_000640.3
shIL13RA2-2	TRCN0000427870	Human IL13RA2	NM_000640.3
shEFNB1-1	TRCN0000455035	Human EFNB1	NM_004429.5
shEFNB1-2	TRCN0000058656	Human EFNB1	NM_004429.5
shEPHB1-1	TRCN0000000819	Human EPHB1	NM_004441.5
shEPHB1-2	TRCN0000355608	Human EPHB1	NM_004441.5

**Supplementary Table 2. List of primers and sgRNAs**

Target	Name	Sequence 5'-> 3'	Use	Reference
Human RPLO GenBank accession: NM_001002.4	Hu-RPLP0-F1	GTGATGTGCAGCTGATC AAGACT	qRT-PCR	This study
	Hu-RPLP0-R1	GATGACCAGCCCAAAGG AGA		This study
Human IL13Rα2 GenBank accession: NM_000640.3	Hu-IL13RA2- R2	TCCAAATTCGGTCATCTG AGCA	qRT-PCR	This study
	Hu-IL13RA2- F2	TGGAGCATACCTTTGGG ACC		This study
Human IL13Rα2 GenBank accession: NM_000640.3	F2-OE- IL13RA2	TATCGCTGTACACGGAGAAA TGGCTTTCGTTTGCTTGGC	Cloning and over expression of IL13Rα2 into pTRIPZ vector	This study
	R2-OE- IL13RA2	CCGACGCGTTCAAGCGTAAT CTGGAACATCGTATGGGTAT GTATCACAGAAAAATTCTG		This study
Human IL13Rα2 GenBank accession: NM_000640.3	F1-shRNA- 8523	TCGAGAAGGTATATTGCTGT TGACAGTGAGCGCGCTACG TTTCTGGCTACCATTAGTG AAGCCACAGATGTTAAATGG TAGCCAGAAACGTAGCATG CCTACTGCCTCGG	To clone shRNA targeting TGCTACGTTTCTGGCTACCA TT (from TRCN0000058523) in cDNA of IL13RA2 to pTRIPZ vector	This study
	R1-shRNA- 8523	AATCCGAGGCAGTAGGCA TGCTACGTTTCTGGCTACCA TTTACATCTGTGGCTTCACTA AATGGTAGCCAGAAACGTA GCGCGCTCACTGTCAACAGC AATATACCTTC		This study
Human IL13Rα2 GenBank accession: NM_000640.3	F1-shRNA- 7870	TCGAGAAGGTATATTGCTGT TGACAGTGAGCGGCATAC CTTTGGGACCTATTCTAGTG AAGCCACAGATGTAGAATA GGTCCCAAAGGTATGCTTGC CTACTGCCTCGG	To clone shRNA targeting AGCATACCTTTGGGACCTAT TC (from TRCN0000427870) in cDNA of IL13RA2 in pTRIPZ vector	This study

	R1-shRNA-7870	AATTCCGAGGCAGTAGGCA AGCATACCTTTGGGACCTAT TCTACATCTGTGGCTTCACT AGAATAGGTCCCAAAGGTA TGCGCGCTCACTGTCAACAG CAATATACCTTC		This study
pTripz Sox4.965 Addgen cat # 101120	R1-pTripz-Sox4	TCAAAGAGATAGCAAGGTA TTCAGT	Verification of shRNA cloning into pTripz Sox4.965	This study
	F2-pTripz-Sox4	TCGATAGTTTGTGGAATGA GGCT		This study
Human EEF1A2 GenBank accession: NM_001958.5	hu-EEF1A2-F1	TCTCCAAGAATGGGCAGAC G	qRT-PCR	This study
	hu-EEF1A2-R1	TTGACGATCTCGTCGTAGCG		This study
Human EPHB1 GenBank accession: NM_004441.5	EphB1-F1	CTTTGACCCTCCAGAAGTGG	qRT-PCR	[1]
	EphB1-R1	CTCCACATTGTCGTCACAGC		[1]
Human EFN1 GenBank accession: NM_004429.5	EfnB1-F1	TGCCTGTAGCACAGTTCTCG	qRT-PCR	This study
	EfnB1-R1	CCCATGTAGTTGGGGCTGA A		This study
Human IL13Rα2 GenBank accession: NM_000640.3	sgIL13RA2-1	ATAGTGGATCCCGGATACTT	For cloning in px459 v2.0 (RRID:Addgene_62988) and targeting exon 3 of human IL13Rα2 gen	This study
Human IL13Rα2 GenBank accession: NM_000640.3	sgIL13RA2-2	CCTGGGCAGAACTACTTAT	For cloning in px459 v2.0 (RRID:Addgene_62988) and targeting exon 4 of human IL13Rα2 gen	This study
Human IL13Rα2 GenBank accession: NM_000640.3	sgIL13RA2-3	GCTTTCGTTTGCTGGCTAT	For cloning in px459 v2.0 (RRID:Addgene_62988) and targeting exon 2 of human IL13Rα2 gen	This study
Human IL13Rα2 GenBank accession: NM_000640.3	sgIL13RA2-4	GGCATAGGTGTA CTCTTGA	For cloning in px459 v2.0 (RRID:Addgene_62988) and targeting exon 5 of human IL13Rα2 gen	This study

**Supplementary Table 3: List of antibodies**

Target	Vendor	Cat #	Host	Dilution/Use	RRID
IL13RA2	Abcam	ab55275	Mouse	1:2000/WB	AB_943819
IL13RA2	R&D	AF146	Goat	1:1000/WB; 1:80/IHC	AB_354809
Ephrin B1	Thermo Fisher Scientific	37-8100	Mouse	1:500/WB; 1:100/IHC; 1:100/IF	AB_2533342
EEF1A2	Genetex	GTX102326	Rabbit	1:1000/WB	AB_1950166
EPHB1	Santa cruz	SC-130054	Mouse	1:1000/WB	AB_2246581
GAPDH	Cell Signaling	97166	Mouse	1:1000/WB	AB_2756824

Rabbit IgG (H+L) Alexa Fluor 680	Life Technology	A-21109	Goat	1:10000/WB	AB_2535758
Mouse IgG Alexa Fluor 800	LICOR	926-32210	Goat	1:15000/WB	AB_621842
Mouse IgG (H+L) Alexa Fluor 680	Invitrogen	A-21058	Goat	1:10000/WB	AB_2535724
Goat IgG (H+L) Alexa Fluor 680	Invitrogen	A-21084	Donkey	1:10000/WB	AB_141494
HA-tag	Cell Signaling	3724S	Rabbit	1:1000/WB	AB_1549585
BrdU	Abcam	AB6326	Rat	1:100/Flow; 1:200/IF	AB_305426
Rat IgG (H+L) DyLight 488	Thermo Fisher	SA5-10026	Donkey	1:200/Flow	AB_2556606
IL13RA1	Abcam	AB79277	Rabbit	1:2000/WB	AB_1640587
ImmPRESS Anti- Goat Ig	Vector Laboratories	MP-7405	Horse	As manufacturer instructions/IHC	AB_2336526
ImmPRESS-AP Anti- Mouse	Vector Laboratories	MP-5402	Horse	As manufacturer instructions/IHC	AB_2336535
Phospho-FAK (Tyr925)	Cell Signaling	3284S	Rabbit	1:10000/WB; 1:200/IF	AB_10831810
Purified Mouse Anti-FAK	BD Biosciences	610087	Mouse	1:10000/WB	AB_397494
Phospho-Src Family (Tyr416)	Cell Signaling	2101	Rabbit	1:10000/WB	AB_331697
Src (L4A1) Mouse mAb	Cell Signaling	2110	Mouse	1:10000/WB	AB_10691385
Anti-ERK 1/2 Antibody (C-9)	Cell Signaling	CS-9101S	Mouse	1:10000/WB	AB_331646
p44/42 MAPK (Erk1/2)	Cell Signaling	CS-9102S	Rabbit	1:10000/WB	AB_330744
Anti-Rat IgG (H+L) Alexa Fluor 594	Jackson ImmunoResearch	712-585- 153	Donkey	1:100/IF	AB_2340689
Anti-Mouse Alexa Fluor 488	Life Technology	A11029	Goat	1:500/IF	AB_138404
Anti-Rabbit IgG (H+L) Alexa Fluor 594	Jackson ImmunoResearch	711-585- 152	Donkey	1:100/IF	AB_2340621

1. Karwaciak I, Salkowska A, Karas K, Sobalska-Kwapis M, Walczak-Drzewiecka A, Pulaski L, Strapagiel D, Dastych J, Ratajewski M: **SIRT2 Contributes to the Resistance of Melanoma Cells to the Multikinase Inhibitor Dasatinib.** *Cancers (Basel)* 2019, **11**(5).