

Supplementary Table 9: List of differentially expressed miRNAs in BAL for therapy effects and their target genes

database	mature_mirna_acc	mature_mirna_id	target_symbol	target_entrez	target_ensembl	experiment	support_type	pubmed_id	type
miRbase	MIMAT0000646	hsa-miR-155-5p	CCND1	595	ENSG00000110092	Luciferase reporter assay	Functional MTI	19538740	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	BCL6	604	ENSG00000113916	Luciferase reporter assay	Functional MTI	23041630	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	CCND1	595	ENSG00000110092	Luciferase reporter assay//Western blot	Functional MTI	22858023	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	CCND1	595	ENSG00000110092	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	EGFR	1956	ENSG00000146648	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	PODXL	5420	ENSG00000128567	pSILAC//Proteomics;Other	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	ITGB4	3691	ENSG00000132470	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	TACSTD2	4070	ENSG00000184292	pSILAC//Proteomics;Other	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	MYO1D	4642	ENSG00000176658	Reporter assay;Other	Non-Functional MTI	20584899	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	PLS1	5357	ENSG00000120756	Reporter assay;Other	Non-Functional MTI	20584899	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	PPL	5493	ENSG00000118898	pSILAC//Proteomics;Other	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	PPL	5493	ENSG00000118898	Microarray//qRT-PCR	Functional MTI (Weak)	22815788	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	TPBG	7162	ENSG00000146242	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	FUBP3	8939	ENSG00000107164	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	CLDN1	9076	ENSG00000163347	Immunocytochemistry//Immunohistochemistry//In situ hybridization//Luciferase reporter assay//Microarray//qRT-PCR//Western blot	Functional MTI	24604078	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	CLDN1	9076	ENSG00000163347	pSILAC//Proteomics;Other	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	SLC9A3R2	9351	ENSG00000065054	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	NCKAP1	10787	ENSG00000061676	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	SLC27A2	11001	ENSG00000140284	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	FSTL1	11167	ENSG00000163430	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	PHGDH	26227	ENSG00000092621	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	PLEKHA5	54477	ENSG00000052126	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	TNKS1BP1	85456	ENSG00000149115	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	CXCL8	3576	ENSG00000169429	Western blot	Functional MTI	21030878	validated
miRbase	MIMAT0000646	hsa-miR-155-5p	TPBG	7162	ENSG00000283085	Proteomics	Functional MTI (Weak)	18668040	validated
miRbase	MIMAT0000077	hsa-miR-22-3p	ERBB3	2065	ENSG00000065361	Luciferase reporter assay//qRT-PCR//Western blot	Functional MTI	22484852	validated
miRbase	MIMAT0000077	hsa-miR-22-3p	NET1	10276	ENSG00000173848	Luciferase reporter assay//qRT-PCR//Western blot	Functional MTI	25041463	validated
miRbase	MIMAT0000077	hsa-miR-22-3p	TRAF3IP1	26146	ENSG00000204104	HITS-CLIP	Functional MTI (Weak)	19536157	validated
miRbase	MIMAT0000077	hsa-miR-22-3p	IFT140	9742	ENSG00000187535	PAR-CLIP	Functional MTI (Weak)	20371350	validated
miRbase	MIMAT0000077	hsa-miR-22-3p	C1orf87	127795	ENSG00000162598	HITS-CLIP	Functional MTI (Weak)	23824327	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	CCND1	595	ENSG00000110092	Luciferase reporter assay//qRT-PCR//Western blot	Functional MTI	21569481	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	BTG2	7832	ENSG00000159388	PAR-CLIP	Functional MTI (Weak)	24398324	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	EGFR	1956	ENSG00000146648	Luciferase reporter assay	Functional MTI	23559009	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	EGFR	1956	ENSG00000146648	Luciferase reporter assay//qRT-PCR//Western blot	Functional MTI	23650389	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	CNN3	1266	ENSG00000117519	Microarray//qRT-PCR	Functional MTI (Weak)	22815788	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	TP53INP2	58476	ENSG00000078804	HITS-CLIP	Functional MTI (Weak)	19536157	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	SLC7A2	6542	ENSG00000003989	PAR-CLIP	Functional MTI (Weak)	20371350	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	NR2F2	7026	ENSG00000185551	HITS-CLIP	Functional MTI (Weak)	23824327	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	IER3	8870	ENSG00000230128	HITS-CLIP	Functional MTI (Weak)	22473208	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	IER3	8870	ENSG00000237155	HITS-CLIP	Functional MTI (Weak)	22473208	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	IER3	8870	ENSG00000227231	HITS-CLIP	Functional MTI (Weak)	22473208	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	IER3	8870	ENSG00000137331	HITS-CLIP	Functional MTI (Weak)	22473208	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	IER3	8870	ENSG00000206478	HITS-CLIP	Functional MTI (Weak)	22473208	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	IER3	8870	ENSG00000235030	HITS-CLIP	Functional MTI (Weak)	22473208	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	ABHD17C	58489	ENSG00000136379	Sequencing//PAR-CLIP	Functional MTI (Weak)	20371350	validated
miRbase	MIMAT0000084	hsa-miR-27a-3p	ABHD17C	58489	ENSG00000136379	HITS-CLIP	Functional MTI (Weak)	22473208	validated
miRbase	MIMAT0000254	hsa-miR-10b-5p	TRIM2	23321	ENSG00000109654	PAR-CLIP	Functional MTI (Weak)	20371350	validated
miRbase	MIMAT0000254	hsa-miR-10b-5p	TRIM2	23321	ENSG00000109654	PAR-CLIP	Functional MTI (Weak)	21572407	validated
miRbase	MIMAT0000254	hsa-miR-10b-5p	SDC1	6382	ENSG00000115884	Luciferase reporter assay	Functional MTI	22573479	validated
miRbase	MIMAT0000254	hsa-miR-10b-5p	SDC1	6382	ENSG00000115884	Luciferase reporter assay	Functional MTI	23206733	validated
miRbase	MIMAT0000254	hsa-miR-10b-5p	SDC1	6382	ENSG00000115884	3'LIFE	Functional MTI (Weak)	25074381	validated
miRbase	MIMAT0000254	hsa-miR-10b-5p	NR4A3	8013	ENSG00000119508	Reporter assay	Non-Functional MTI	21642433	validated
miRbase	MIMAT0000254	hsa-miR-10b-5p	KIF21A	55605	ENSG00000139116	CLASH	Functional MTI (Weak)	23622248	validated
miRbase	MIMAT0000254	hsa-miR-10b-5p	STK33	65975	ENSG00000130413	CLASH	Functional MTI (Weak)	23622248	validated

mirTarbase	MIMAT0000254	hsa-miR-10b-5p	SYNPO	11346	ENSG00000171992	PAR-CLIP	Functional MTI (Weak)	22012620	validated
mirTarbase	MIMAT0004495	hsa-miR-22-5p	ERBB2	2064	ENSG00000141736	HITS-CLIP	Functional MTI (Weak)	24906430	validated
mirTarbase	MIMAT0004495	hsa-miR-22-5p	CCDC113	29070	ENSG00000103021	CLASH	Functional MTI (Weak)	23622248	validated
mirTarbase	MIMAT0004556	hsa-miR-10b-3p	CLDN1	9076	ENSG00000163347	PAR-CLIP	Functional MTI (Weak)	23592263	validated
mirTarbase	MIMAT0019756	hsa-miR-4674	SPA17	53340	ENSG00000064199	HITS-CLIP	Functional MTI (Weak)	19536157	validated
mirTarbase	MIMAT0022707	hsa-miR-570-5p	HS3ST1	9957	ENSG00000002587	PAR-CLIP	Functional MTI (Weak)	22100165	validated
mirTarbase	MIMAT0021021	hsa-miR-5001-5p	PODXL	5420	ENSG00000128567	PAR-CLIP	Functional MTI (Weak)	22012620	validated
mirTarbase	MIMAT0021021	hsa-miR-5001-5p	ATP8B1	5205	ENSG00000081923	PAR-CLIP	Functional MTI (Weak)	23446348	validated
mirTarbase	MIMAT0007882	hsa-miR-1909-5p	IGFBP3	3486	ENSG00000146674	HITS-CLIP	Functional MTI (Weak)	23313552	validated
mirTarbase	MIMAT0007882	hsa-miR-1909-5p	CERS4	79603	ENSG00000090661	HITS-CLIP	Functional MTI (Weak)	19536157	validated
mirTarbase	MIMAT0021022	hsa-miR-5001-3p	C3	718	ENSG00000125730	PAR-CLIP	Functional MTI (Weak)	21572407	validated
mirTarbase	MIMAT0021022	hsa-miR-5001-3p	FAM179A	165186	ENSG00000189350	PAR-CLIP	Functional MTI (Weak)	22291592	validated
mirTarbase	MIMAT0021022	hsa-miR-5001-3p	FAM179A	165186	ENSG00000189350	PAR-CLIP	Functional MTI (Weak)	23708386	validated
mirTarbase	MIMAT0021022	hsa-miR-5001-3p	FAM229B	619208	ENSG00000203778	HITS-CLIP	Functional MTI (Weak)	23824327	validated
mirTarbase	MIMAT0003235	hsa-miR-570-3p	PODXL	5420	ENSG00000128567	PAR-CLIP	Functional MTI (Weak)	22012620	validated
mirTarbase	MIMAT0003235	hsa-miR-570-3p	SLC5A8	160728	ENSG00000256870	HITS-CLIP	Functional MTI (Weak)	23824327	validated
mirTarbase	MIMAT0003235	hsa-miR-570-3p	SLC5A8	160728	ENSG00000262217	HITS-CLIP	Functional MTI (Weak)	23824327	validated
mirTarbase	MIMAT0019796	hsa-miR-4700-5p	EFNA1	1942	ENSG00000169242	PAR-CLIP	Functional MTI (Weak)	23592263	validated
mirTarbase	MIMAT0019797	hsa-miR-4700-3p	CMTM4	146223	ENSG00000183723	PAR-CLIP	Functional MTI (Weak)	22100165	validated
mirTarbase	MIMAT0007883	hsa-miR-1909-3p	IGFBP4	3487	ENSG00000141753	PAR-CLIP	Functional MTI (Weak)	23592263	validated
mirTarbase	MIMAT0007883	hsa-miR-1909-3p	BCAM	4059	ENSG00000187244	PAR-CLIP	Functional MTI (Weak)	23592263	validated
mirTarbase	MIMAT0007883	hsa-miR-1909-3p	C9orf3	84909	ENSG00000148120	PAR-CLIP	Functional MTI (Weak)	23592263	validated
mirTarbase	MIMAT0017981	hsa-miR-3605-5p	SOD2	6648	ENSG00000112096	PAR-CLIP	Functional MTI (Weak)	21572407	validated
mirTarbase	MIMAT0017981	hsa-miR-3605-5p	SOD2	6648	ENSG00000112096	PAR-CLIP	Functional MTI (Weak)	23446348	validated
mirTarbase	MIMAT0017981	hsa-miR-3605-5p	SOD2	6648	ENSG00000112096	PAR-CLIP	Functional MTI (Weak)	23592263	validated
mirTarbase	MIMAT0017981	hsa-miR-3605-5p	SOD2	6648	ENSG00000112096	PAR-CLIP	Functional MTI (Weak)	24398324	validated
mirTarbase	MIMAT0017981	hsa-miR-3605-5p	EPHA2	1969	ENSG00000142627	PAR-CLIP	Functional MTI (Weak)	23592263	validated
mirTarbase	MIMAT0017981	hsa-miR-3605-5p	NUCB2	4925	ENSG00000070081	PAR-CLIP	Functional MTI (Weak)	23592263	validated
mirTarbase	MIMAT0017981	hsa-miR-3605-5p	GPRC5C	55890	ENSG00000170412	PAR-CLIP	Functional MTI (Weak)	20371350	validated
mirTarbase	MIMAT0017981	hsa-miR-3605-5p	SLC23A1	9963	ENSG00000170482	PAR-CLIP	Functional MTI (Weak)	22291592	validated
mirTarbase	MIMAT0005896	hsa-miR-1244	TRIM2	23321	ENSG00000109654	PAR-CLIP	Functional MTI (Weak)	20371350	validated
mirTarbase	MIMAT0005896	hsa-miR-1244	TRIM2	23321	ENSG00000109654	PAR-CLIP	Functional MTI (Weak)	21572407	validated
mirTarbase	MIMAT0005896	hsa-miR-1244	GALNT3	2591	ENSG00000115339	PAR-CLIP	Functional MTI (Weak)	22012620	validated
mirTarbase	MIMAT0005896	hsa-miR-1244	WFDC6	140870	ENSG00000243543	HITS-CLIP	Functional MTI (Weak)	23313552	validated
mirTarbase	MIMAT0017982	hsa-miR-3605-3p	PODXL	5420	ENSG00000128567	PAR-CLIP	Functional MTI (Weak)	23592263	validated
mirTarbase	MIMAT0017982	hsa-miR-3605-3p	TMC5	79838	ENSG00000103534	PAR-CLIP	Functional MTI (Weak)	20371350	validated
mirTarbase	MIMAT0017982	hsa-miR-3605-3p	TMC5	79838	ENSG00000103534	HITS-CLIP	Functional MTI (Weak)	21572407	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	CLDN1	9076	ENSG00000163347	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	EGFR	1956	ENSG00000146648	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	FSTL1	11167	ENSG00000163430	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	FUBP3	8939	ENSG00000107164	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	ITGB4	3691	ENSG00000132470	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	MYO1D	4642	ENSG00000176658	Other	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	MYO1D	4642	ENSG00000176658	Reporter assay	negative	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	NCKAP1	10787	ENSG00000061676	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	PHGDH	26227	ENSG00000092621	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	PLEKHA5	54477	ENSG00000052126	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	PLS1	5357	ENSG00000120756	Other	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	PLS1	5357	ENSG00000120756	Reporter assay	negative	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	PODXL	5420	ENSG00000128567	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	PPL	5493	ENSG00000118898	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	SLC27A2	11001	ENSG00000140284	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	SLC9A3R2	9351	ENSG00000065054	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	TACSTD2	4070	ENSG00000184292	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	TNKS1BP1	85456	ENSG00000149115	Proteomics	positive	NA	validated
tarbase	MIMAT0000646	hsa-miR-155-5p	TPBG	7162	ENSG00000146242	Proteomics	positive	NA	validated
tarbase	MIMAT0000254	hsa-miR-10b-5p	NR4A3	8013	ENSG00000119508	Reporter assay	negative	NA	validated