

Supplementary Table 1. MicroRNA differently expressed in HCV-associated DLBCL versus HCV-associated germinal center B cells. The geometrical mean of the miRNA expression is provided.

miR name	HCV-associated DLBCL	HCV-associated B cells	Fold Change	Parametric p-value (t test)	% CV support [§]	Number of validated target [#]
miR-122-5p	2.48	1655.82	0.00	0.004	100	283
miR-135a-5p	0.4	33.82	0.01	0.000	100	6
miR-363-5p	0.33	24.99	0.01	0.003	95	-
miR-184	0.77	18.98	0.04	0.001	100	6
miR-708-3p	0.92	18.98	0.04	0.000	100	-
miR-20b-3p	0.22	3.41	0.06	0.016	95	-
miR-129-2-3p	1.13	16.34	0.06	0.006	95	-
miR-149-5p	0.25	3.27	0.07	0.019	91	-
miR-592	0.53	5.75	0.09	0.001	100	-
miR-891a	1.88	20.25	0.09	0.042	36	-
miR-302b-3p	1.3	12.41	0.11	0.003	95	4
miR-122-3p	0.71	6.44	0.11	0.005	100	-
miR-892b	1.65	14.55	0.11	0.040	91	1
miR-302a-5p	0.99	8.5	0.12	0.022	91	-
miR-138-5p	0.42	3.01	0.14	0.020	91	25
miR-376b	1.18	2.94	0.4	0.020	95	1
miR-105-5p	1.29	3.2	0.4	0.020	95	2
miR-146b-3p	1.05	0.26	4.06	0.004	95	2
miR-96-5p	1.06	0.16	6.76	0.044	45	83
miR-376a-3p	0.98	0.14	6.86	0.010	95	4
miR-127-3p	1.01	0.14	7.13	0.007	95	6
miR-512-3p	0.91	0.12	7.58	0.040	91	1
miR-604	1.16	0.13	9.15	0.024	91	-
miR-551b-5p	1.86	0.19	9.96	0.022	91	-
miR-570-3p	0.67	0.066	10.1	0.018	95	-
miR-518b	1.21	0.11	10.9	0.001	10	-
miR-376c	1.19	0.11	11	0.000	100	1
miR-136-3p	1.14	0.092	12.4	0.002	95	-
miR-495	0.82	0.061	13.5	0.005	95	-
miR-380-5p	1.77	0.13	13.8	0.001	100	-
miR-511	0.82	0.055	15.0	0.001	100	-
miR-487b	0.91	0.047	19.2	0.001	100	-
miR-450b-5p	0.52	0.027	19.5	0.045	36	-
miR-424-3p	0.57	0.028	20.3	0.007	95	2
miR-522-3p	0.95	0.045	20.8	0.025	91	-
miR-517c-3p	1.03	0.049	21.1	0.001	100	-
miR-493-3p	0.59	0.027	22	0.012	95	-
miR-519b-3p	1.04	0.046	22.3	0.003	100	2
miR-655	0.82	0.034	24.2	0.004	95	-
miR-889	0.67	0.026	25.6	0.020	91	-
miR-539-5p	0.91	0.033	27.8	0.027	91	-
miR-432-5p	0.77	0.027	28.9	0.030	91	-
miR-433	0.58	0.018	31.6	0.016	95	4
miR-518f-3p	0.94	0.026	36.7	0.000	100	-
miR-198	0.77	0.019	41.3	0.032	91	3
miR-519a-3p	0.9	0.015	60.8	0.002	100	3
miR-450a-5p	0.65	0.011	61.3	0.000	100	1
miR-379-5p	0.5	0.0067	73.9	0.016	91	-
miR-542-5p	0.48	0.0052	92.1	0.002	100	-

miR-410	0.98	0.0092	105	0.000	100	-
miR-409-3p	1.33	0.0053	252.7	0.000	100	3
miR-337-5p	1.52	0.0039	391.1	0.000	100	-

§ Per cent support indicates the number of times when the gene is used for classification in the leave-one-out-cross-validation procedure.

#According to tarbase 6.0 (<http://diana.imis.athena-innovation.gr/>).

Supplementary table 2. miRPath analysis results for signaling pathways affected by validated target of the 52-miRNA signature.

KEGG pathway	miR name	Validated gene target[#]
PI3K-Akt signaling pathway	miR-122-5p	CDK4, CREB1, IGF1R, IFNA1, PAK1, RAC1, AKT3, GYS1
	miR-135a	JAK2
	miR-184	AKT2
	miR-146b-3p	PDGFB
	miR-519b-3p	CDKN1A
	miR-302b-3p	CCND2
	miR-892b	MCL1
	miR-105-5p	TLR2
	miR-96-5p	YWHAG, BCL2, KRAS, FOXO3, CDKN1A, RELA, SGK3
miR-433	FGF20-GRB2	
Pathways in cancer	miR-122-5p	CDK4, BAX, BRCA2, IGF1R, RHOA, VHL, EGLN3, RAC1, AKT3
	miR-135a-5p	APC
	miR-184	AKT2
	miR-146-3p	PDGFB
	miR-519b-3p	CDKN1A, BCL2, APPL1, KRAS, MITF, RELA
	miR-96-5p	FOXO1, XIAP
	miR-138-5p	PPARG
	miR-433	FGF20- GRB2
HTLV-I infection	miR-122-5p	CDK4, AKT3, BAX, CREB1, CALR, SRF
	miR-135a-5p	APC
	miR-184	AKT2, NFATC2
	miR-146b-3p	PFGFB
	miR-127-3p	XBP1
	miR-519b-3p	CDKN1A
	miR-302b-3p	CCND2
	miR-138-5p	TERT
	miR-96-5p	KRAS, CDKN1A, RELA, XIAP, ADCY6
Viral carcinogenesis	miR-122-5p	CDK4, BAX, PKM, CREB1, RHOA, GTF2B, GTF2H2, RAC1, SRF
	miR-519b-3p	CDKN1A
	miR-302b-3p	CCND2
	miR-96-5p	YWHAG, KRAS, CDKN1A, RELA, GTF2A1
	miR-433	GRB2
	miR-450a-5p	HNRNPK

[#]According to tarbase 6.0 (<http://diana.imis.athena-innovation.gr/>)

Supplementary table 3. MicroRNA differently expressed in HCV-associated DLBCL versus DLBCL. The geometrical mean of the miRNA expression is provided.

miR name	HCV-associated DLBCL	DLBCL	Fold-change	Parametric p-value (t test)	FDR°
hsa-miR-137	0.78	7.89	0.10	0.01	0.29
hsa-miR-363-5p	0.33	3.27	0.10	0.01	0.21
hsa-miR-500a-3p	0.30	2.36	0.13	0.00	0.19
hsa-miR-20b-3p	0.22	1.57	0.14	0.02	0.32
hsa-miR-501-5p	0.30	1.61	0.19	0.01	0.21
hsa-miR-769-3p	0.38	1.48	0.26	0.02	0.32
hsa-miR-424-3p	0.57	2.21	0.26	0.01	0.21
hsa-miR-7-2-3p	0.33	1.27	0.26	0.03	0.41
hsa-miR-616-3p	0.62	2.18	0.28	0.01	0.21
hsa-miR-149	0.25	0.81	0.31	0.02	0.32
hsa-miR-106b-3p	0.48	1.54	0.31	0.05	0.50
hsa-miR-15b-3p	0.40	1.17	0.34	0.03	0.41
hsa-miR-376b-3p	1.18	3.33	0.35	0.03	0.41
hsa-let-7f-1-3p	0.63	1.67	0.38	0.04	0.45
hsa-miR-638	1.53	0.55	2.78	0.01	0.21
hsa-miR-923	2.44	0.84	2.90	0.03	0.41
hsa-miR-509-5p	2.10	0.39	5.38	0.02	0.33
hsa-miR-380-5p	1.77	0.31	5.71	0.00	0.19
hsa-miR-939-5p	3.08	0.46	6.70	0.04	0.43
hsa-miR-551b-5p	1.86	0.25	7.44	0.00	0.07

°FDR: False Discovery Rate