

microRNA profiling in EBV-associated B-cell lymphoma

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Supplementary Figure 1. Detection of various deregulated miRNAs in samples of primary EBV-negative vs. EBV-positive DLBCL. MiRNAs were extracted from snap-frozen tissue samples of DLBCL and analyzed by northern blotting for the relative levels of the miRNA tested as indicated. U6 snRNA was used for normalization. The relative level for each miRNA assayed is shown in supplementary Table 4.

Supplementary Figure 2. Expression levels of miR-155 and miR-424 in LMP-negative vs. LMP+ samples of EBV-infected DLBCL. Extracts of EBV-positive DLBCL that were either LMP1 positive (open rectangles) or LMP1-negative (dark rectangles) were assayed by qRT-PCR for the relative levels of miR-155 and miR-424.

Supplementary Figure 3. Venn diagrams of predicted miRNA targets for miR-424 and miR-155 using different prediction algorithms as indicated. Overlapping target predictions were further checked by PubMed search for correlation to EBV and lymphoma resulting in a list of potential candidates.

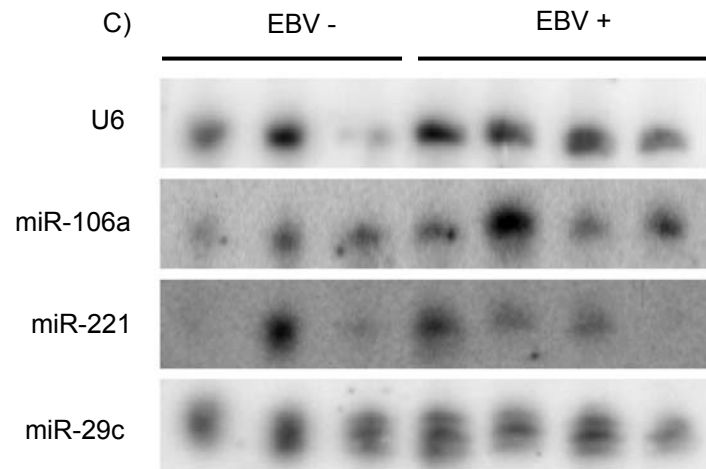
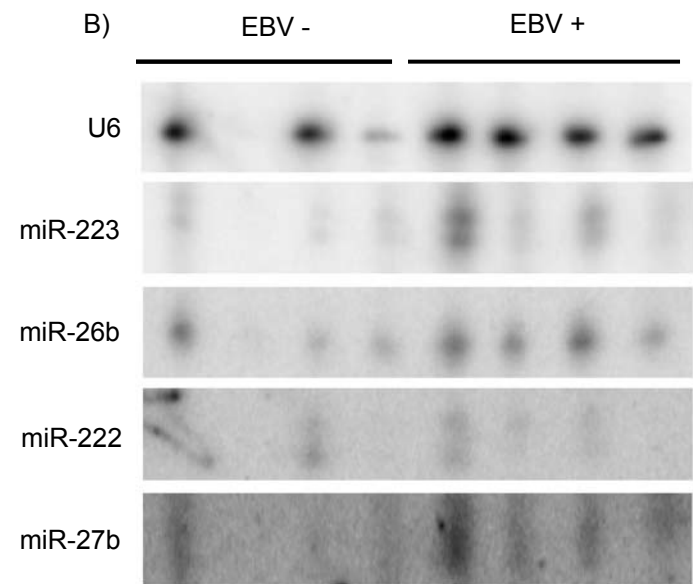
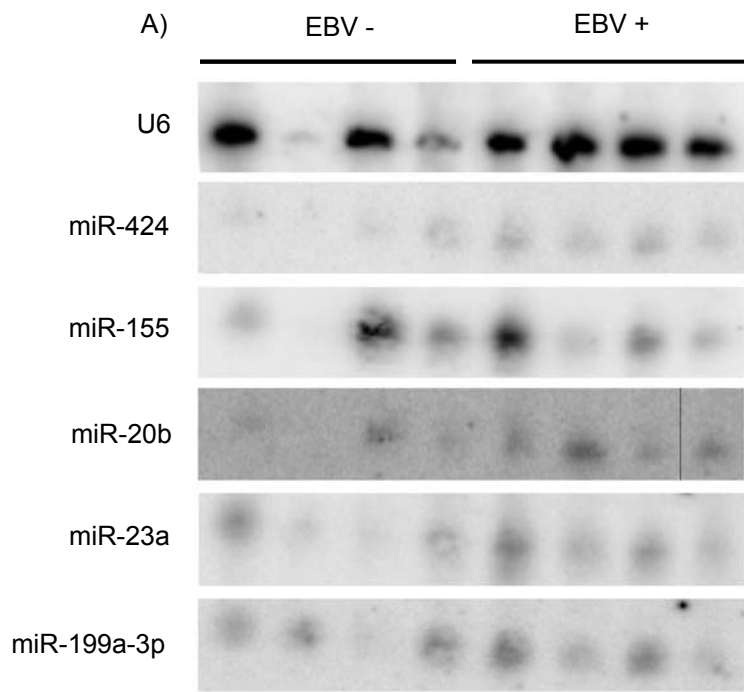
Supplementary Figure 4. miR-424 expression control. miR-424 genomic sequence containing vector pSG5 (pSG5/miR-424) and empty vector (pSG5/Ø) were transiently transfected into HEK 293-T cells. After 48h total RNA was isolated detected by Northern-Blot using specific probes as described. tRNA served as a loading control.

Supplementary Figure 5. Transfection efficacy of FAM-labeled small oligonucleotides in EBV-positive U2932 DLBCL cell lines. Indicated cell lines (U2932/clone B, upper panel, clone 2 lower panel) were either mock transfected (A and D) or with 60pMol FAM-oligonucleotide/ 10^5 cells (B and E). Flow cytometric analysis was performed post 72h and no obvious cytotoxicity was observed (Dot-Blots A, D, B, E). C and F show fluorescence histogram overlays of control relative to FAM-oligonucleotide transfected cells displaying transfection efficacies ranging between ~86-88% (M = marker).

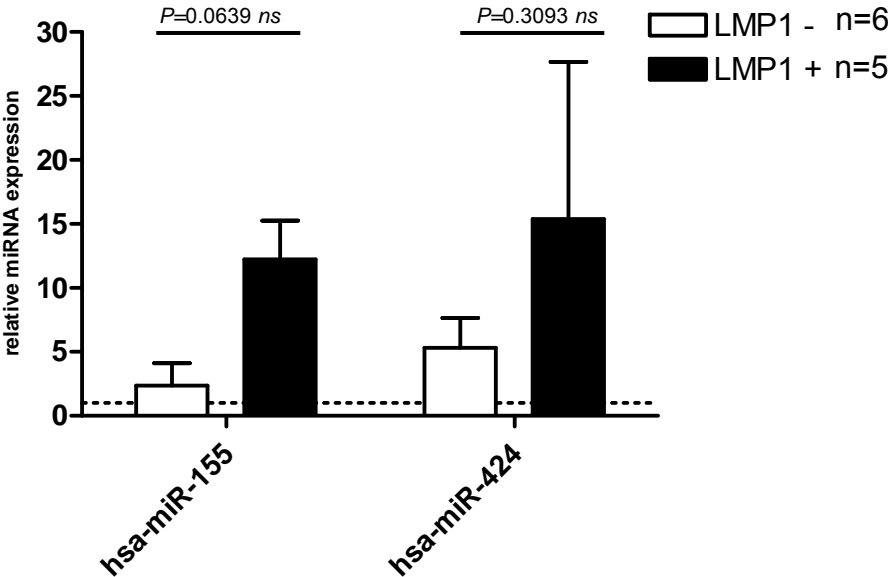
Supplementary Figure 6. Down-regulation of endogenous miRNAs in EBV-positive U2932 DLBCL cell lines by antisense RNA. Antisense miR-inhibitors for miR-155 (A) and miR-424 (B) were transfected into U2932 EBV clones 2 and B, total RNA was isolated after 72h and miRNAs detected by Northern-Blot. U6 snRNA amount was used for normalization for

densitometric quantification. Numbers indicate relative knock-down efficacies. The result of one representative experiment is shown.

Supplementary Figure 1



Supplementary Figure 2



Supplementary Figure 3

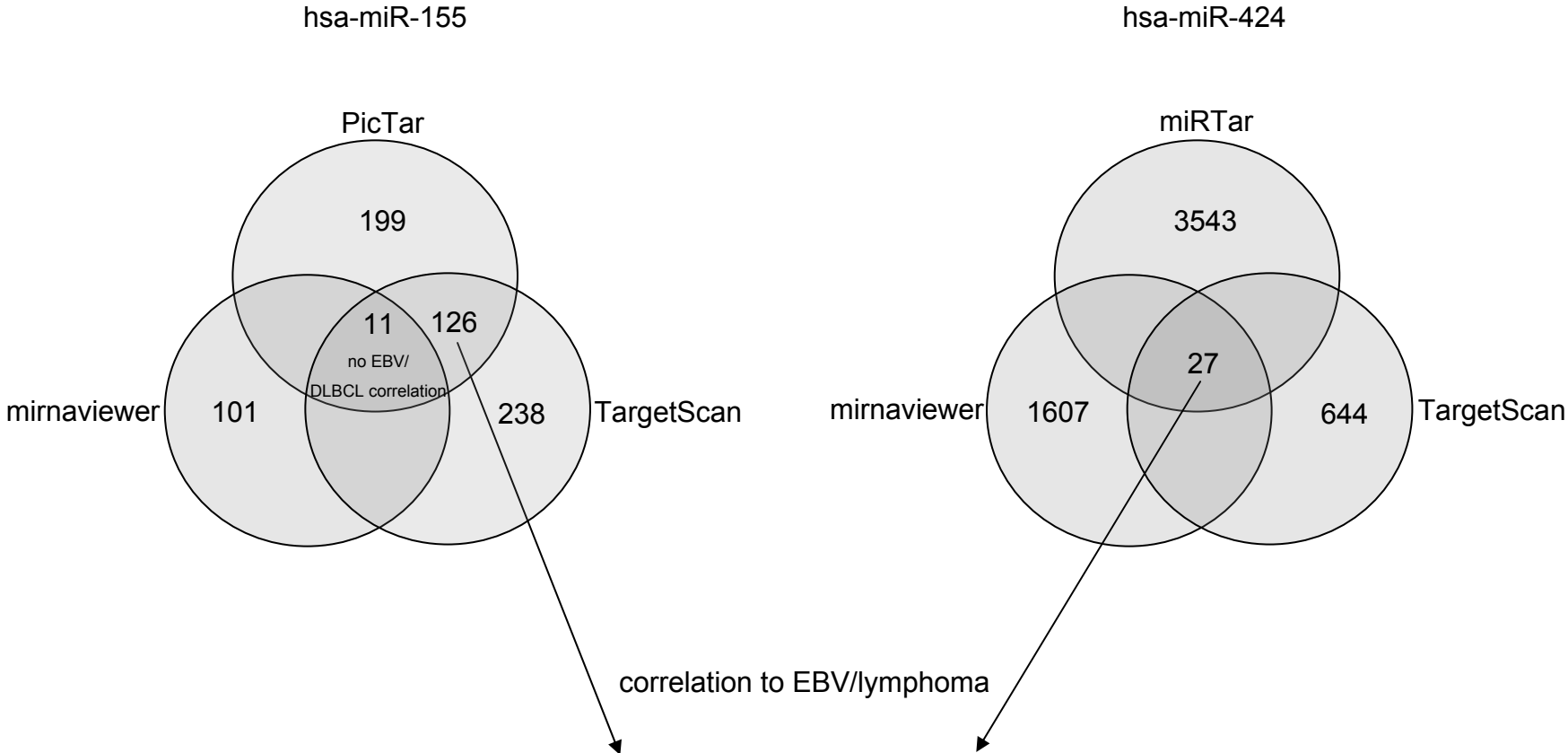
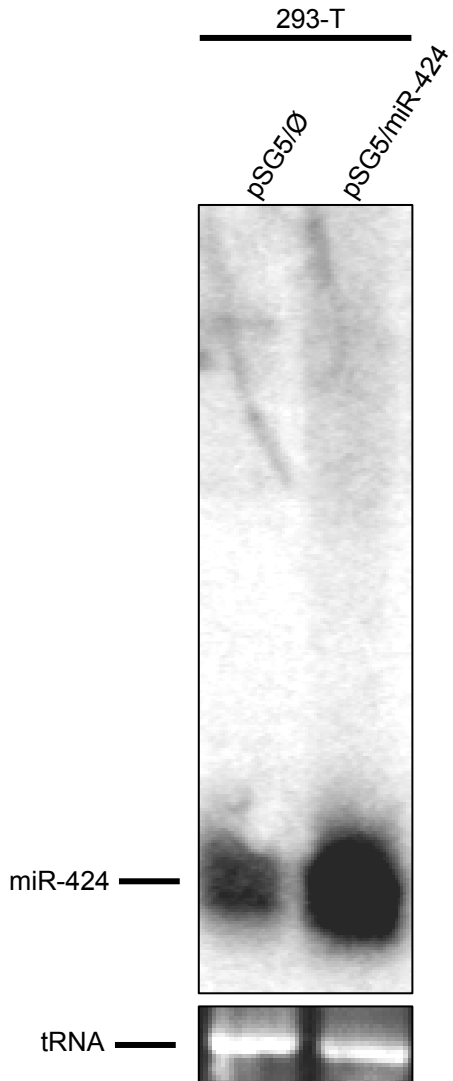


Table 2: results of *in silico* target prediction

hsa-miR-155	hsa-miR-424
MYB	MYB
ETS1	DMTF1
MAP3K7IP2	CUL2
KRAS	LATS2
<i>AICDA</i>	SIAH1
SP3	
SKI	
SOCS6	

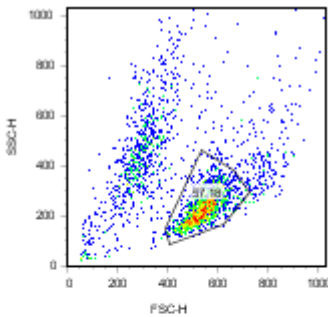
Supplementary Figure 4



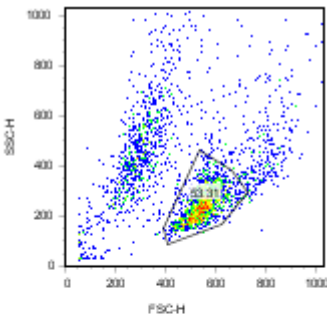
Supplementary Figure 5

U2932
(EBV cloneB)

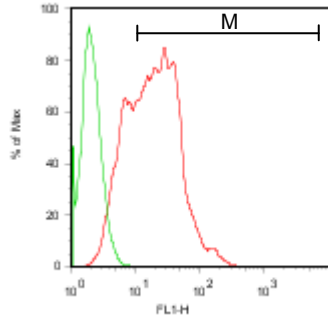
A) mock transfected



B) FAM-Oligo transfected



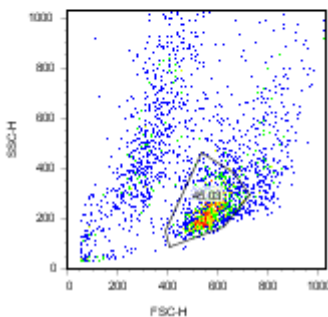
C) histogram overlay



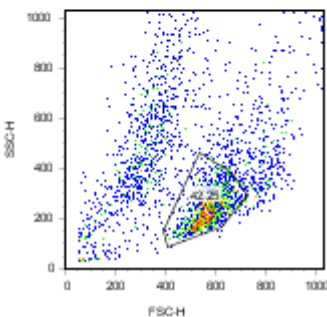
█ mock transfected: M = 0.59%
█ FAM-oligo transfected: M = 88.63%

U2932
(EBV clone2)

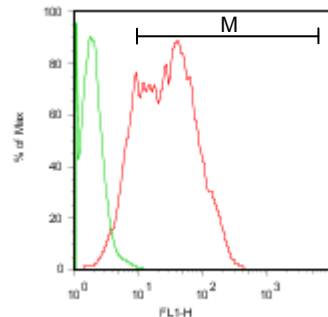
D) mock transfected



E) FAM-Oligo transfected

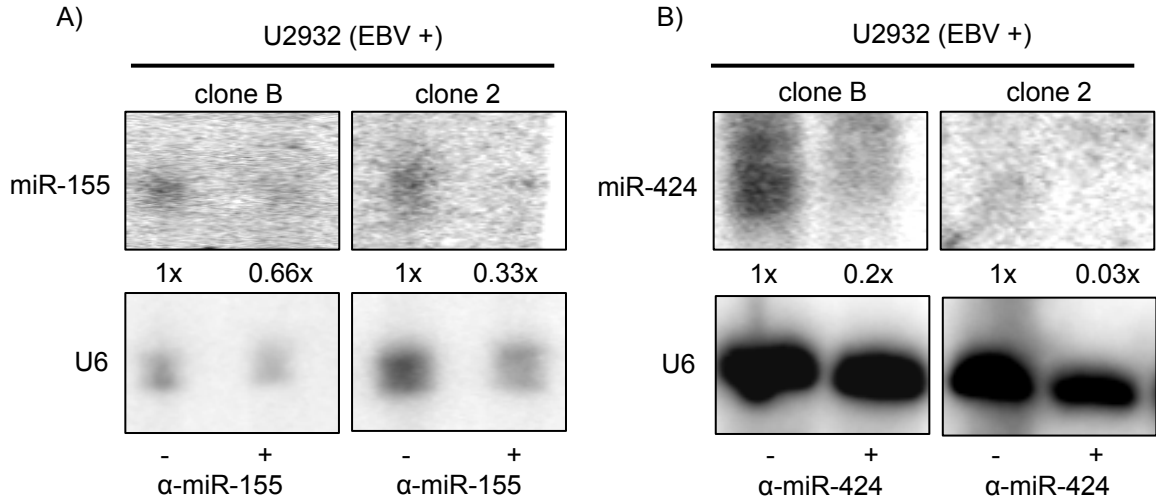


F) histogram overlay



█ mock transfected: M = 0.56%
█ FAM-oligo transfected: M = 85.97%

Supplementary Figure 6



Supplementary Table 1: Pathological Characteristics of Used Tissues

tissue type	diagnosis	number	EBV-status	EBV status patient
total (qRT-PCR)				
tonsil	reactive	3	n.d	positive
B-CL (aggressive)		10	negative	3x negative, 7x positive
	DLBCL ABC	6		
	DLBCL GC	4		
B-CL (aggressive)		10	positive	all positive
	DLBCL ABC	4		
	DLBCL	3		
	anaplastic LCL	1		
	BL	1		
	MedDLBCL	1		
in library:				
B-CL (aggressive)	DLBCL ABC	2	negative	2x pos 2x neg
	DLBCL GC	2		
B-CL (aggressive)	DLBCL ABC	2	positive	all pos
	DLBCL	1		
	MedDLBCL	1		
	BL	1		

Supplementary Table 2: EBV-miRNA expression

described in miR-Base	reads per library	% of EBV miRNA reads	% of total miRNA reads
ebv-miR-BART3	5	0,92	0,016
ebv-miR-BART3*	2	0,37	0,006
ebv-miR-BART4	5	0,92	0,016
ebv-miR-BART4*	3	0,55	0,009
ebv-miR-BART1-3p	8	1,47	0,025
ebv-miR-BART1-5p	32	5,86	0,101
ebv-miR-BART15	0	0,00	0,000
ebv-miR-BART5	25	4,58	0,079
ebv-miR-BART5*	0	0,00	0,000
ebv-miR-BART16	40	7,33	0,126
ebv-miR-BART17-3p	16	2,93	0,050
ebv-miR-BART17-5p	9	1,65	0,028
ebv-miR-BART6-3p	9	1,65	0,028
ebv-miR-BART6-5p	17	3,11	0,054
ebv-miR-BART21-3p	2	0,37	0,006
ebv-miR-BART21-5p	11	2,01	0,035
ebv-miR-BART18-5p	0	0,00	0,000
ebv-miR-BART18-3p	2	0,37	0,006
ebv-miR-BART7	81	14,84	0,255
ebv-miR-BART7*	0	0,00	0,000
ebv-miR-BART8	14	2,56	0,044
ebv-miR-BART8*	11	2,01	0,035
ebv-miR-BART9	11	2,01	0,035
ebv-miR-BART9*	1	0,18	0,003
ebv-miR-BART22	81	14,84	0,255
ebv-miR-BART10	52	9,52	0,164
ebv-miR-BART10*	0	0,00	0,000
ebv-miR-BART11-3p	12	2,20	0,038
ebv-miR-BART11-5p	47	8,61	0,148
ebv-miR-BART12	4	0,73	0,013
ebv-miR-BART19-3p	7	1,28	0,022
ebv-miR-BART19-5p	0	0,00	0,000
ebv-miR-BART20-3p	0	0,00	0,000
ebv-miR-BART20-5p	0	0,00	0,000
ebv-miR-BART13	15	2,75	0,047
ebv-miR-BART13*	4	0,73	0,013
ebv-miR-BART14	16	2,93	0,050
ebv-miR-BART14*	0	0,00	0,000
ebv-miR-BART2-5p	4	0,73	0,013
ebv-miR-BART2-3p	0	0,00	0,000
ebv-miR-BHRF1-1	0	0,00	0,000
ebv-miR-BHRF1-2	0	0,00	0,000
ebv-miR-BHRF1-2*	0	0,00	0,000
ebv-miR-BHRF1-3	0	0,00	0,000
sum	546		31725

Supplementary Table 3

DLBCL library (EBV-)			DLBCL library (EBV+)		
MiRNA-species	read	relative	miRNA-species	read	relative
	number	expression %		number	expression %
hsa-miR-16	10664	19,586	hsa-miR-16	4672	14,678
hsa-miR-155	8332	15,303	hsa-miR-21	2967	9,321
hsa-miR-20a	3617	6,643	hsa-miR-17	2882	9,054
hsa-miR-21	3535	6,492	hsa-miR-20a	2879	9,045
hsa-miR-17	2882	5,293	hsa-miR-15b	1561	4,904
hsa-miR-15a	2858	5,249	hsa-miR-15a	1353	4,251
hsa-miR-15b	2676	4,915	hsa-miR-27a	1265	3,974
hsa-miR-106b	1595	2,929	hsa-miR-155	1098	3,449
hsa-miR-221	873	1,603	hsa-miR-106b	846	2,658
hsa-miR-26a	810	1,488	hsa-miR-199a-3p	791	2,485
hsa-miR-103	801	1,471	hsa-miR-103	624	1,960
hsa-miR-27a	751	1,379	hsa-miR-23a	582	1,828
hsa-miR-92a	721	1,324	hsa-miR-26b	516	1,621
hsa-miR-25	706	1,297	hsa-miR-26a	465	1,461
hsa-miR-93	699	1,284	hsa-miR-126	430	1,351
hsa-miR-126	687	1,262	hsa-miR-92a	423	1,329
hsa-miR-29c	625	1,148	hsa-miR-25	422	1,326
hsa-miR-142-3p	622	1,142	hsa-miR-142-3p	413	1,297
hsa-miR-29a	472	0,867	hsa-miR-191	331	1,040
hsa-miR-146a	468	0,860	hsa-miR-424	298	0,936
hsa-miR-30b	462	0,849	hsa-miR-142-5p	283	0,889
hsa-miR-191	457	0,839	hsa-miR-29a	268	0,842
hsa-miR-23a	439	0,806	hsa-miR-93	266	0,836
hsa-miR-142-5p	436	0,801	hsa-miR-30b	252	0,792
hsa-miR-151-5p	418	0,768	hsa-miR-27b	235	0,738
hsa-miR-26b	375	0,689	hsa-miR-19b	216	0,679
hsa-miR-199a-3p	354	0,650	hsa-miR-195	201	0,631
hsa-miR-148a	298	0,547	hsa-miR-146a	189	0,594
hsa-miR-20b	298	0,547	hsa-miR-223	160	0,503
hsa-miR-222	282	0,518	hsa-miR-29c	158	0,496
hsa-miR-19b	263	0,483	hsa-miR-23b	139	0,437
hsa-miR-29b	241	0,443	hsa-miR-24	136	0,427
hsa-miR-374b	232	0,426	hsa-miR-374b	131	0,412
hsa-miR-195	204	0,375	hsa-miR-151-5p	129	0,405
hsa-miR-320	193	0,354	hsa-miR-221	129	0,405
hsa-miR-425	183	0,336	hsa-miR-148a	126	0,396
hsa-let-7g	169	0,310	hsa-miR-22	114	0,358
hsa-miR-185	164	0,301	hsa-let-7f	107	0,336
hsa-miR-106a	163	0,299	hsa-miR-425	103	0,324
hsa-let-7f	143	0,263	hsa-miR-199a-5p	100	0,314
hsa-miR-18a	139	0,255	hsa-miR-101	99	0,311
hsa-miR-30c	135	0,248	hsa-let-7g	93	0,292
hsa-miR-424	135	0,248	hsa-miR-185	93	0,292
hsa-miR-17*	124	0,228	hsa-miR-34a	90	0,283
hsa-miR-30d	123	0,226	hsa-miR-30c	88	0,276
hsa-miR-140-3p	121	0,222	hsa-miR-17*	87	0,273
hsa-miR-24	118	0,217	hsa-miR-30e	82	0,258
hsa-miR-23b	113	0,208	hsa-let-7a	78	0,245
hsa-miR-27b	113	0,208	hsa-miR-133a	69	0,217
hsa-miR-22	109	0,200	hsa-miR-222	66	0,207
hsa-miR-128a	102	0,187	hsa-miR-320	65	0,204
hsa-miR-34a	102	0,187	hsa-miR-497	61	0,192

hsa-miR-30e	101	0,185	hsa-miR-29b	55	0,173
hsa-miR-101	100	0,184	hsa-miR-140-3p	53	0,167
hsa-miR-361-5p	100	0,184	hsa-miR-378	52	0,163
hsa-miR-497	85	0,156	hsa-miR-126*	51	0,160
hsa-miR-146b-5p	79	0,145	hsa-miR-1	50	0,157
hsa-miR-199a-5p	79	0,145	hsa-miR-30d	50	0,157
hsa-miR-652	79	0,145	hsa-miR-590-3p	50	0,157
hsa-let-7a	74	0,136	hsa-miR-152	48	0,151
hsa-miR-28-5p	70	0,129	hsa-miR-18a	48	0,151
hsa-miR-374a	70	0,129	hsa-miR-374a	48	0,151
hsa-miR-151-3p	67	0,123	hsa-miR-7	48	0,151
hsa-miR-590-3p	65	0,119	hsa-miR-22*	47	0,148
hsa-miR-223	64	0,118	hsa-miR-361-5p	46	0,145
hsa-miR-484	60	0,110	hsa-miR-181a	45	0,141
hsa-miR-342-3p	53	0,097	hsa-miR-451	44	0,138
hsa-miR-32	50	0,092	hsa-miR-106a	42	0,132
hsa-miR-16-2*	45	0,083	hsa-miR-146b-5p	42	0,132
hsa-miR-363	45	0,083	hsa-miR-19a	41	0,129
hsa-miR-145	42	0,077	hsa-miR-128a	37	0,116
hsa-let-7i	35	0,064	hsa-miR-342-3p	34	0,107
hsa-miR-140-5p	34	0,062	hsa-miR-181b	31	0,097
hsa-miR-194	34	0,062	hsa-miR-28-5p	31	0,097
hsa-miR-221*	34	0,062	hsa-miR-150	30	0,094
hsa-miR-200c	32	0,059	hsa-miR-652	27	0,085
hsa-miR-532-5p	32	0,059	hsa-miR-210	23	0,072
hsa-miR-181a	31	0,057	hsa-miR-20b	22	0,069
hsa-miR-455-3p	30	0,055	hsa-miR-21*	22	0,069
hsa-miR-7	29	0,053	hsa-miR-32	22	0,069
hsa-miR-22*	28	0,051	hsa-miR-7-1*	22	0,069
hsa-miR-150	27	0,050	hsa-miR-499-5p	21	0,066
hsa-miR-301a	27	0,050	hsa-miR-125b	20	0,063
hsa-miR-708	27	0,050	hsa-miR-194	20	0,063
hsa-miR-378	26	0,048	hsa-miR-484	20	0,063
hsa-miR-454	26	0,048	hsa-let-7d	19	0,060
hsa-miR-28-3p	25	0,046	hsa-miR-30e*	19	0,060
hsa-miR-152	24	0,044	hsa-miR-455-3p	19	0,060
hsa-miR-324-3p	24	0,044	hsa-miR-143	18	0,057
hsa-miR-361-3p	24	0,044	hsa-miR-130b	17	0,053
hsa-miR-125a-5p	23	0,042	hsa-miR-28-3p	17	0,053
hsa-miR-181b	23	0,042	hsa-let-7i	16	0,050
hsa-miR-21*	23	0,042	hsa-miR-145	16	0,050
hsa-miR-218	23	0,042	hsa-miR-532-5p	16	0,050
hsa-miR-186	21	0,039	hsa-miR-9*	15	0,047
hsa-miR-362-3p	20	0,037	hsa-let-7b	14	0,044
hsa-let-7b	19	0,035	hsa-miR-190	14	0,044
hsa-miR-130b	19	0,035	hsa-miR-206	14	0,044
hsa-miR-148b	19	0,035	hsa-miR-148b	13	0,041
hsa-miR-30e*	19	0,035	hsa-miR-182	13	0,041
hsa-miR-106b*	18	0,033	hsa-miR-362-3p	13	0,041
hsa-miR-182	18	0,033	hsa-miR-574-3p	13	0,041
hsa-miR-10b	17	0,031	hsa-miR-590-5p	13	0,041
hsa-miR-125b	17	0,031	hsa-miR-151-3p	12	0,038
hsa-miR-143	16	0,029	hsa-miR-16-2*	12	0,038
hsa-miR-192	16	0,029	hsa-miR-193b	12	0,038
hsa-miR-19a	16	0,029	hsa-miR-454	12	0,038
hsa-miR-210	16	0,029	hsa-let-7g*	11	0,035

hsa-let-7d	15	0,028	hsa-miR-140-5p	11	0,035
hsa-let-7i*	15	0,028	hsa-miR-186	11	0,035
hsa-miR-421	15	0,028	hsa-miR-192	11	0,035
hsa-miR-766	14	0,026	hsa-miR-10b	10	0,031
hsa-miR-423-3p	13	0,024	hsa-miR-132	10	0,031
hsa-miR-582-5p	13	0,024	hsa-miR-199b-5p	10	0,031
hsa-miR-103-2*	12	0,022	hsa-miR-218	10	0,031
hsa-miR-365	12	0,022	hsa-miR-107	9	0,028
hsa-miR-378*	12	0,022	hsa-miR-24-2*	9	0,028
hsa-miR-451	12	0,022	hsa-miR-30a	9	0,028
hsa-miR-500	12	0,022	hsa-miR-644	9	0,028
hsa-miR-660	11	0,020	hsa-miR-9	9	0,028
hsa-miR-130a	10	0,018	hsa-let-7a*	8	0,025
hsa-miR-139-5p	10	0,018	hsa-miR-103-2*	8	0,025
hsa-miR-215	10	0,018	hsa-miR-196a	8	0,025
hsa-miR-345	10	0,018	hsa-miR-214	8	0,025
hsa-miR-502-3p	10	0,018	hsa-miR-365	8	0,025
hsa-let-7a*	9	0,017	hsa-miR-421	8	0,025
hsa-let-7f-2*	9	0,017	hsa-miR-503	8	0,025
hsa-miR-132	9	0,017	hsa-miR-598	8	0,025
hsa-miR-15b*	9	0,017	hsa-miR-1301	7	0,022
hsa-miR-18a*	9	0,017	hsa-miR-139-5p	7	0,022
hsa-miR-18b	9	0,017	hsa-miR-340	7	0,022
hsa-miR-30a	9	0,017	hsa-miR-423-3p	7	0,022
hsa-miR-423-5p	9	0,017	hsa-miR-766	7	0,022
hsa-miR-598	9	0,017	hsa-miR-301a	6	0,019
hsa-miR-99b	9	0,017	hsa-miR-376a	6	0,019
hsa-miR-193b	8	0,015	hsa-miR-376c	6	0,019
hsa-miR-20a*	8	0,015	hsa-miR-378*	6	0,019
hsa-miR-768-3p	8	0,015	hsa-miR-500	6	0,019
hsa-miR-199b-5p	7	0,013	hsa-miR-100	5	0,016
hsa-miR-30a*	7	0,013	hsa-miR-125a-5p	5	0,016
hsa-miR-362-5p	7	0,013	hsa-miR-130a	5	0,016
hsa-miR-486-5p	7	0,013	hsa-miR-183	5	0,016
hsa-miR-7-1*	7	0,013	hsa-miR-221*	5	0,016
hsa-miR-942	7	0,013	hsa-miR-30a*	5	0,016
hsa-miR-100	6	0,011	hsa-miR-335	5	0,016
hsa-miR-223*	6	0,011	hsa-miR-671-5p	5	0,016
hsa-miR-330-3p	6	0,011	hsa-miR-15b*	4	0,013
hsa-miR-505	6	0,011	hsa-miR-20a*	4	0,013
hsa-miR-532-3p	6	0,011	hsa-miR-324-3p	4	0,013
hsa-miR-590-5p	6	0,011	hsa-miR-33a*	4	0,013
hsa-miR-98	6	0,011	hsa-miR-345	4	0,013
hsa-miR-1307	5	0,009	hsa-miR-34a*	4	0,013
hsa-miR-141	5	0,009	hsa-miR-450a	4	0,013
hsa-miR-155*	5	0,009	hsa-miR-574-5p	4	0,013
hsa-miR-15a*	5	0,009	hsa-miR-628-3p	4	0,013
hsa-miR-192*	5	0,009	hsa-miR-768-5p	4	0,013
hsa-miR-29b-2*	5	0,009	hsa-miR-96	4	0,013
hsa-miR-340	5	0,009	hsa-let-7e	3	0,009
hsa-miR-450a	5	0,009	hsa-let-7f-1*	3	0,009
hsa-miR-501-3p	5	0,009	hsa-miR-196b	3	0,009
hsa-miR-576-3p	5	0,009	hsa-miR-212	3	0,009
hsa-miR-92b	5	0,009	hsa-miR-223*	3	0,009
hsa-let-7g*	4	0,007	hsa-miR-424*	3	0,009
hsa-miR-190	4	0,007	hsa-miR-493	3	0,009

hsa-miR-196b	4	0,007	hsa-miR-505	3	0,009
hsa-miR-224	4	0,007	hsa-miR-624*	3	0,009
hsa-miR-335*	4	0,007	hsa-miR-942	3	0,009
hsa-miR-628-5p	4	0,007	hsa-miR-95	3	0,009
hsa-miR-9*	4	0,007	hsa-let-7c	2	0,006
hsa-miR-93*	4	0,007	hsa-let-7d*	2	0,006
hsa-let-7d*	3	0,006	hsa-miR-10a	2	0,006
hsa-let-7f-1*	3	0,006	hsa-miR-1-2*	2	0,006
hsa-miR-144	3	0,006	hsa-miR-1304	2	0,006
hsa-miR-145*	3	0,006	hsa-miR-138	2	0,006
hsa-miR-324-5p	3	0,006	hsa-miR-155*	2	0,006
hsa-miR-330-5p	3	0,006	hsa-miR-18a*	2	0,006
hsa-miR-33a*	3	0,006	hsa-miR-193a-3p	2	0,006
hsa-miR-340*	3	0,006	hsa-miR-197	2	0,006
hsa-miR-34a*	3	0,006	hsa-miR-19b-1*	2	0,006
hsa-miR-425*	3	0,006	hsa-miR-200a	2	0,006
hsa-miR-455-5p	3	0,006	hsa-miR-200c	2	0,006
hsa-miR-501-5p	3	0,006	hsa-miR-224	2	0,006
hsa-miR-551b	3	0,006	hsa-miR-301b	2	0,006
hsa-miR-574-3p	3	0,006	hsa-miR-326	2	0,006
hsa-miR-744	3	0,006	hsa-miR-374b*	2	0,006
hsa-miR-96	3	0,006	hsa-miR-432	2	0,006
hsa-let-7e	2	0,004	hsa-miR-486-5p	2	0,006
hsa-miR-183	2	0,004	hsa-miR-495	2	0,006
hsa-miR-197	2	0,004	hsa-miR-501-5p	2	0,006
hsa-miR-208	2	0,004	hsa-miR-515-5p	2	0,006
hsa-miR-24-2*	2	0,004	hsa-miR-532-3p	2	0,006
hsa-miR-296-5p	2	0,004	hsa-miR-651	2	0,006
hsa-miR-29c*	2	0,004	hsa-miR-655	2	0,006
hsa-miR-331-3p	2	0,004	hsa-miR-708	2	0,006
hsa-miR-339-3p	2	0,004	hsa-miR-768-3p	2	0,006
hsa-miR-499-5p	2	0,004	hsa-miR-923	2	0,006
hsa-miR-502-5p	2	0,004	hsa-miR-92a-1*	2	0,006
hsa-miR-511	2	0,004	hsa-miR-93*	2	0,006
hsa-miR-584	2	0,004	hsa-miR-99b	2	0,006
hsa-miR-624*	2	0,004	hsa-let-7b*	1	0,003
hsa-miR-628-3p	2	0,004	hsa-let-7i*	1	0,003
hsa-miR-671-5p	2	0,004	hsa-miR-130b*	1	0,003
hsa-miR-769-5p	2	0,004	hsa-miR-135b	1	0,003
hsa-miR-874	2	0,004	hsa-miR-138-1*	1	0,003
hsa-miR-923	2	0,004	hsa-miR-141	1	0,003
hsa-miR-940	2	0,004	hsa-miR-144	1	0,003
hsa-miR-106a*	1	0,002	hsa-miR-181c	1	0,003
hsa-miR-10a	1	0,002	hsa-miR-181d	1	0,003
hsa-miR-10b*	1	0,002	hsa-miR-187	1	0,003
hsa-miR-124	1	0,002	hsa-miR-188-3p	1	0,003
hsa-miR-138	1	0,002	hsa-miR-188-5p	1	0,003
hsa-miR-138-1*	1	0,002	hsa-miR-190b	1	0,003
hsa-miR-146b-3p	1	0,002	hsa-miR-192*	1	0,003
hsa-miR-153	1	0,002	hsa-miR-193a-5p	1	0,003
hsa-miR-181c	1	0,002	hsa-miR-208	1	0,003
hsa-miR-181d	1	0,002	hsa-miR-208b	1	0,003
hsa-miR-188-3p	1	0,002	hsa-miR-214*	1	0,003
hsa-miR-190b	1	0,002	hsa-miR-29a*	1	0,003
hsa-miR-196a	1	0,002	hsa-miR-31*	1	0,003
hsa-miR-19b-1*	1	0,002	hsa-miR-32*	1	0,003

hsa-miR-200b	1	0,002
hsa-miR-208b	1	0,002
hsa-miR-214	1	0,002
hsa-miR-24-1*	1	0,002
hsa-miR-25*	1	0,002
hsa-miR-27a*	1	0,002
hsa-miR-27b*	1	0,002
hsa-miR-29b-1*	1	0,002
hsa-miR-301b	1	0,002
hsa-miR-30c-1*	1	0,002
hsa-miR-30d*	1	0,002
hsa-miR-32*	1	0,002
hsa-miR-328	1	0,002
hsa-miR-331-5p	1	0,002
hsa-miR-335	1	0,002
hsa-miR-337-5p	1	0,002
hsa-miR-34b	1	0,002
hsa-miR-374b*	1	0,002
hsa-miR-424*	1	0,002
hsa-miR-504	1	0,002
hsa-miR-542-3p	1	0,002
hsa-miR-548b-5p	1	0,002
hsa-miR-570	1	0,002
hsa-miR-574-5p	1	0,002
hsa-miR-580	1	0,002
hsa-miR-625	1	0,002
hsa-miR-627	1	0,002
hsa-miR-651	1	0,002
hsa-miR-886-5p	1	0,002
hsa-miR-887	1	0,002
hsa-miR-891a	1	0,002
hsa-miR-9	1	0,002
hsa-miR-99a	1	0,002
sum reads	54448	

hsa-miR-324-5p	1	0,003
hsa-miR-335*	1	0,003
hsa-miR-337-3p	1	0,003
hsa-miR-338-3p	1	0,003
hsa-miR-340*	1	0,003
hsa-miR-342-5p	1	0,003
hsa-miR-34b*	1	0,003
hsa-miR-363	1	0,003
hsa-miR-374a*	1	0,003
hsa-miR-425*	1	0,003
hsa-miR-487a	1	0,003
hsa-miR-487b	1	0,003
hsa-miR-493*	1	0,003
hsa-miR-497*	1	0,003
hsa-miR-500*	1	0,003
hsa-miR-520g	1	0,003
hsa-miR-545	1	0,003
hsa-miR-548c-5p	1	0,003
hsa-miR-550	1	0,003
hsa-miR-550*	1	0,003
hsa-miR-582-5p	1	0,003
hsa-miR-625	1	0,003
hsa-miR-643	1	0,003
hsa-miR-801	1	0,003
hsa-miR-874	1	0,003
hsa-miR-940	1	0,003
hsa-miR-98	1	0,003
sum reads	31285	

**Supplementary Table 4:
Northern Blot Analysis of microRNA
Expression in EBV + vs. - DLBCLs**

miRNA	fold change	
	Libraries	Northern Blots
miR-424	3,77	1,26
miR-223	4,26	3,90
miR-199a-3p	2,28	1,26
miR-27b	3,55	1,77
miR-26b	2,35	1,15
miR-23a	2,27	1,14
miR-155	0,22	0,67
miR-20b	0,13	1,42
miR-221	0,25	0,69
miR-222	0,40	0,79
miR-29b/c	0,43	0,69
miR-106a	0,33	1,48

Supplementary Table 5: Pathological characteristics of EBV-positive DLBCL used for LMP1 dependent qRT-PCR

case	sex	diagnosis	comment	localization	EBER PCR/ISH	LMP1	EBNA2	ZEBRA	latency	in library	in qRT-pCR
#1	f	DLBCL ABC	Immunoblastic	cervical	pos.	neg.	neg.	negative	I		x
#2	f	DLBCL		stomach	pos.	neg.	neg.	negative	I	x	x
#3	f	DLBCL		bone	pos.	neg.	neg.	negative	I	x	x
#4	m	DLBCL		cervical	pos.	neg.	neg.	negative	I		x
#5	m	MedDLBCL		mediastinum	pos.	neg.	neg.	negative	I	x	x
#6	m	DLBCL		skeletal muscle	pos.	neg.	neg.	negative	I	x	x
#7	m	DLBCL ABC	TCRBCL*	axilla	pos.	pos.	neg.	negative	II		x
#8	m	DLBCL ABC	anaplastic	submandibular	pos.	pos.	neg.	negative	II		x
#9	f	DLBCL ABC	plasmablastic,imm.suppr.	In cervical	pos.	dot-like pos.	neg.	few pos.	lytic		x
#10	m	DLBCL ABC	HIV+, necrotic,imm.suppr.		pos.	dot-like pos.	neg.	few pos.	lytic		x
#11	m	anaplast. LCL	CD20neg*, imm.suppr.	In cervical	pos.	pos.	neg.	1 pos. cell	lytic?		x