

**Table S1. 25 miRNAs that are up- or downregulated in MALT lymphoma compared to gastritis tissue**

upregulated miRNAs	P-value	Fold change	downregulated miRNAs	P-value	Fold change
miR-1224-5p	0.025	2.318	let-7a	0.032	1.866
miR-135a*	0.028	1.774	let-7f	0.034	1.825
miR-150	0.006	2.758	miR-103	0.048	1.516
miR-150*	0.015	1.701	miR-107	0.01	1.562
miR-188-5p	0.049	2.668	miR-141	0.016	1.726
miR-345	0.039	1.757	miR-146a	0.021	2.408
miR-371-5p	0.044	1.65	miR-200a	0.026	1.604
miR-513b	0.035	1.594	miR-200b	0.044	4.403
miR-513c	0.005	1.637	miR-200c	0.028	1.823
			miR-21	0.021	1.912
			miR-223	0.02	2.369
			miR-31	0.044	1.55
			miR-34a	0.041	1.627
			miR-375	0.04	2.927
			miR-429	0.006	1.554
			miR-7	0.012	1.905

**Table S2. 88 miRNAs that are up- or downregulated in gastric DLBCL compared to MALT lymphoma**

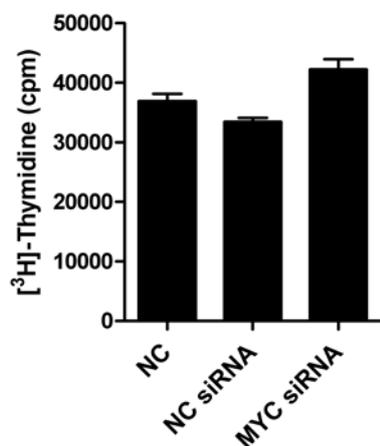
upregulated miRNA	P-value	Fold change	downregulated miRNA	P-value	Fold change
miR-1224-5p	0.024	1.988	let-7a	<0.001	7.097
miR-1225-3p	0	1.615	let-7b	0.003	4.259
miR-1225-5p	0.002	3.55	let-7c	0.001	2.677
miR-1226*	0	1.88	let-7d	0.005	2.139
miR-1228	0	2.461	let-7e	0.003	2.317
miR-125a-3p	0.001	2.405	let-7f	<0.001	5.447
miR-125b-1*	0.021	1.933	let-7g	<0.001	5.426
miR-134	0.001	3.124	let-7i	0.002	2.344
miR-135a*	0.026	1.598	miR-100	0.024	1.681
miR-149*	0.001	1.699	miR-103	0.001	2.018
miR-150*	0	2.895	miR-107	<0.001	2.161
miR-187*	0.004	1.502	miR-10a	0.024	1.593
miR-188-5p	0.013	3.319	miR-125b	0.031	2.424
miR-296-5p	0	2.246	miR-126	0.008	1.905
miR-320a	0.001	1.452	miR-130a	<0.001	1.827
miR-371-5p	0	3.386	miR-140-3p	0.001	1.719
miR-373*	0	2.167	miR-142-3p	0.006	4.168
miR-483-5p	0.009	1.909	miR-143	0.047	1.78
miR-516a-5p	0.013	1.52	miR-145	0.029	2.916
miR-557	0	2.328	miR-146a	0.027	1.829
miR-572	0.017	3.188	miR-150	<0.001	8.726
miR-575	0.005	1.838	miR-151-5p	0.001	1.924
miR-601	0.002	1.782	miR-15a	<0.001	2.431
miR-623	0.003	1.624	miR-15b	0.013	1.947
miR-630	0.01	3.211	miR-16	<0.001	4.679
miR-638	0.027	4.148	miR-192	0.019	3.761
miR-659	0.003	1.752	miR-194	0.044	2.361
miR-663	0	2.321	miR-195	<0.001	2.815
miR-671-5p	0.02	2.9	miR-199a-3p	<0.001	2.327
miR-939	0.01	2.616	miR-199a-5p	0.002	1.669
miR-99b*	0.001	1.536	miR-200a	0.033	2.088
			miR-200b	0.04	4.228
			miR-200c	0.048	4.137
			miR-21	0.027	3.241
			miR-214	0.002	1.496
			miR-22	0.036	2.4
			miR-223	<0.001	2.095
			miR-23a	<0.001	3.88
			miR-23b	<0.001	4.277
			miR-24	<0.001	3.758
			miR-26a	<0.001	3.317
			miR-26b	<0.001	2.908
			miR-27a	0.002	3.259
			miR-27b	0.001	3.026
			miR-28-5p	0.003	1.556
			miR-29a	<0.001	6.41
			miR-29b	<0.001	4.766
			miR-29c	<0.001	4.425
			miR-30a	0.009	1.767
			miR-30b	0.001	3.081
			miR-30c	0.001	2.127
			miR-30e	0.002	1.597
			miR-338-3p	0.008	1.536
			miR-342-3p	0.001	2.269
			miR-34a	0.002	2.298
			miR-497	<0.001	2.002
			miR-768-3p	<0.001	5.4

**Table S3. Expression and/or genetic changes of Bcl6, Myc, FoxP1 and p53 of all DLBCL and MALTL cases of a gastric lymphoma tissue microarray**

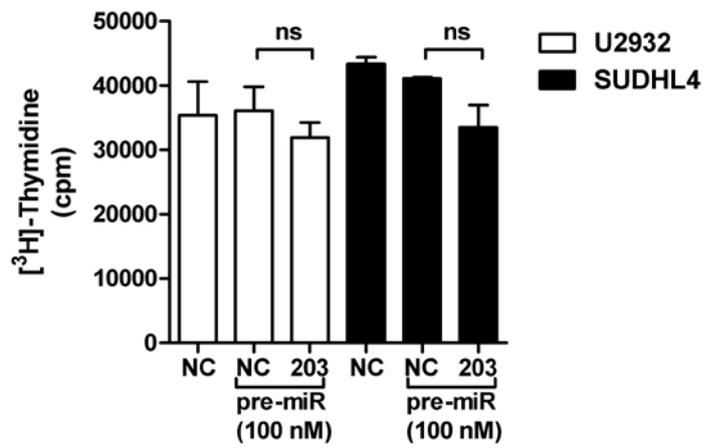
Diagnosis	BCL6	MYC expression	FOXP1 expression	MYC FISH	FOXP1 breaks	FOXP1 gains	p53 expression/status
DLBCL	3	3	0	no break, disome	normal	normal	negative
DLBCL	3	3	3	no break, di- to tetraso	normal	normal	negative
DLBCL	3	3	3	no break, disome	normal	normal	negative
DLBCL	3	3	3	failed	failed	failed	negative
DLBCL	3	3	3	no break, disome	normal	normal	p53 5%+, p21- negative, mutation possible
DLBCL	3	3	3	N/A	N/A	N/A	p53 5%+, p21 not evaluable, mutation not excluded
DLBCL	3	3	3	failed	normal	normal	p53 5%+, p21- negative, mutation possible
DLBCL	3	3	3	no break, disome	normal	normal	negative
DLBCL	3	3	3	1% breaks, below cut-	normal	normal	negative
DLBCL	3	N/A	N/A	no break, disome	normal	gained	negative
DLBCL	3	3	0	no break, disome	normal	normal	negative
DLBCL	3	3	3	no break, di- to trisome	normal	normal	negative
DLBCL	3	3	0	no break, disome	normal	normal	negative
DLBCL	3	3	3	2% break, below cut-o	normal	normal	p53 20%+, p21 20%+, p53 upregulated
DLBCL	3	3	2	failed	normal	normal	p53 50%+, p21 1%+, p53 mutated
DLBCL	2	3	2	failed	failed	failed	negative
DLBCL	2	3	3	no break, disome	normal	normal	negative
DLBCL	2	3	3	N/A	N/A	N/A	negative
DLBCL	2	2	3	no break, disome	normal	gained	p53 5%+, p21 5%+, p53 upregulated
DLBCL	0	2	3	failed	normal	normal	negative
DLBCL	0	2	3	failed	failed	failed	negative
DLBCL	0	3	3	no tumor	no tumor	no tumor	negative
DLBCL	0	3	0	failed	normal	normal	negative
DLBCL	0	0	3	failed	normal	normal	negative
DLBCL	0	3	0	no break, disome	normal	normal	negative
DLBCL	0	0	0	failed	N/A	N/A	negative
DLBCL	0	N/A	3	no break, disome	normal	normal	p53 5%+, p21- negative, mutation possible
DLBCL	0	3	3	failed	failed	failed	p53 70%+, p21- negative, p53 mutated
DLBCL	0	0	0	no break, disome	normal	normal	negative
DLBCL	0	0	0	no break, disome	normal	normal	negative
DLBCL	0	3	3	failed	failed	failed	negative
DLBCL	0	2	3	failed	normal	normal	p53 70%+, p21 5%+, p53 mutation
DLBCL	0	N/A	N/A	failed	normal	normal	p53 5%+, p21- negative, mutation possible
DLBCL	0	N/A	3	failed	failed	failed	negative
DLBCL	0	3	0	no breaks, disome	normal	normal	p53 50%+, p21 15%+, p53 mutation not excluded
DLBCL	N/A	3	N/A	failed	failed	failed	negative
DLBCL	N/A	2	3	failed	failed	failed	negative
DLBCL	N/A	3	3	no break, disome	normal	gained	negative
DLBCL	N/A	3	N/A	failed	normal	gained	negative
MALTL	2	2	2	failed	failed	failed	negative
MALTL	2	2	3	no break, disome	normal	normal	p53 30%+, p21- negative, p53 mutated
MALTL	2	2	0	no break, disome	normal	normal	negative
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	0	3	failed	failed	failed	negative
MALTL	0	2	2	failed	failed	failed	negative
MALTL	0	0	0	N/A	failed	failed	negative
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	2	0	no break, disome	normal	normal	negative
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	2	0	failed	failed	failed	negative
MALTL	0	2	3	failed	failed	failed	negative
MALTL	0	N/A	N/A	N/A	N/A	N/A	p53 30%+, p21- negative, p53 mutated
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	0	0	no break, disome	normal	normal	p53 50%+, p21 negative, p53 mutated
MALTL	0	0	0	no break	normal	normal	negative
MALTL	0	N/A	0	failed	failed	failed	negative
MALTL	0	0	N/A	failed	failed	failed	negative
MALTL	0	0	N/A	no break, trisome	normal	normal	negative
MALTL	0	0	0	no break, disome	normal	normal	p53 70%+, p21- negative, p53 mutated
MALTL	0	2	0	failed	failed	failed	negative
MALTL	0	0	3	failed	failed	failed	negative
MALTL	0	0	0	no break, di- to trisome	normal	normal	p53 30%+, p21- negative, p53 mutated
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	0	0	N/A	N/A	N/A	negative
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	0	0	no break, di- to trisome	normal	normal	negative
MALTL	0	0	0	failed	failed	failed	p53 70%+, p21- negative, p53 mutated
MALTL	0	0	0	failed	failed	failed	p53 50%+, p21 negative, p53 mutated
MALTL	0	N/A	N/A	no break, disome	normal	normal	p53 30%+, p21 10%+, p53 upregulated, probably not mutated
MALTL	0	0	N/A	failed	failed	failed	negative
MALTL	0	0	N/A	failed	failed	failed	negative
MALTL	0	0	2	no break, disome	no break, di	no break, c	negative
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	0	N/A	failed	failed	failed	negative
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	3	0	no break, disome	normal	normal	negative
MALTL	0	2	0	failed	failed	failed	negative
MALTL	0	3	N/A	failed	failed	failed	negative
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	0	0	failed	failed	failed	negative
MALTL	0	0	2	failed	failed	failed	negative
MALTL	0	3	0	failed	failed	failed	p53 10%+, p21 5%+, no mutation
MALTL	0	0	0	no break, di- to tetraso	normal	normal	negative

**Table S4. Expression and/or genetic status of Myc, FoxP1 and miR-34a of MALT lymphoma and gastric DLBCL cases used for microRNA expression profiling**

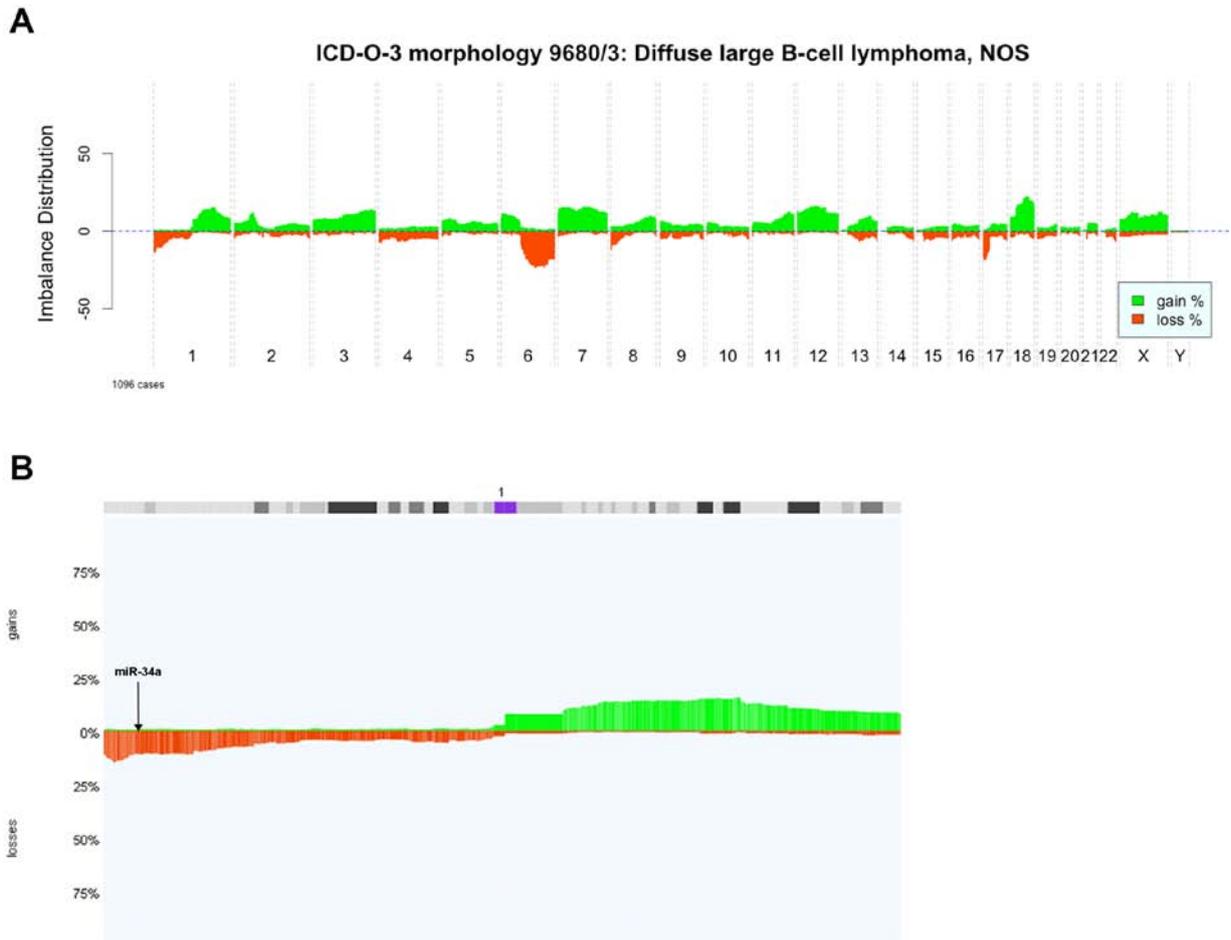
<b>short-Nr</b>	<b>Grade</b>	<b>c-myc split</b>	<b>MYC</b>	<b>FOX-P1</b>	<b>miR-34a normalized expression</b>
2.4	gDLBCL	N/A	0	2	4.8
2.5 b	gDLBCL	61%	3	3	2.7
2.7	gDLBCL	10%	0	2	6.2
2.9	gDLBCL	8%	1	1	2.8
2.10 a	gDLBCL	7%	2	2	3.4
2.11 a	gDLBCL	57%	2	2	9.9
6.3 d	MALT-L	8%	1	2	14.4
6.4 e	MALT-L	5%	0	1	23.4
6.5 b	MALT-L	7%	0	2	10.8
6.6 b	MALT-L	6%	0	2	7.4
6.7 b	MALT-L	5%	0	2	8.9
6.9	MALT-L	16%	0	1	29.3
6.10 x	MALT-L	7%	0	0	14.8



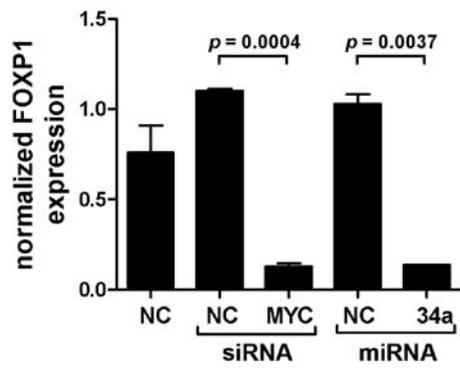
**Figure S1. siRNA-mediated knockdown of Myc in the marginal zone lymphoma cell line SSK41 does not reduce proliferation.** SSK41 cells were electroporated with a Myc-specific siRNA or a negative control (NC) siRNA 72 h prior to the quantification of proliferation by [<sup>3</sup>H] thymidine incorporation.



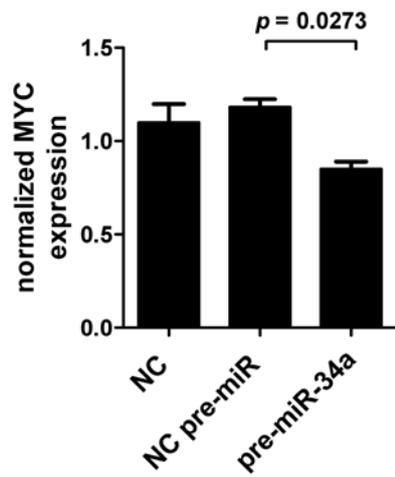
**Figure S2. Ectopic expression of miR-203 does not impair proliferation of DLBCL cell lines.** U2932 (white) and SUDHL-4 (black) cells were electroporated with pre-miR-203 or a scrambled negative control pre-miR (NC) 72 h prior to the quantification of proliferation by [<sup>3</sup>H] thymidine incorporation.



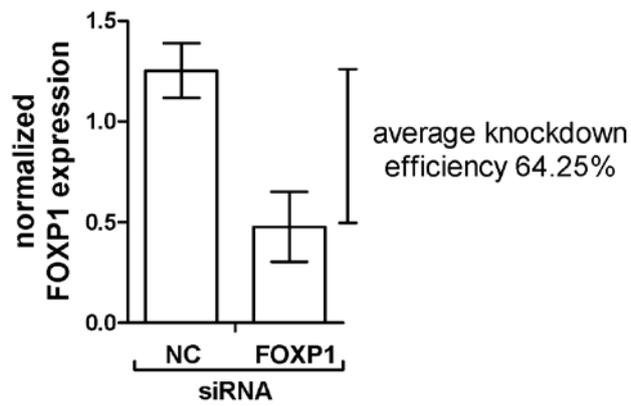
**Figure S3. The miR-34a locus resides in a commonly deleted region in DLBCL as reported from the CGH results of 1096 cases accessed through the Progenetix database.** (A) A summary of CGH profiling of 1096 cases of DLBCL from the Progenetix data collection. The histoplot reveals the most common sites of DNA copy number changes for each chromosome. The percentage of cases with gains (green) and losses (red) is indicated. (B) Histoplot depicting the CGH data for chromosome 1 in detail. The miR-34a locus is located on 1p36 and appears to be deleted in roughly 10% of all 1096 DLBCL cases analyzed.



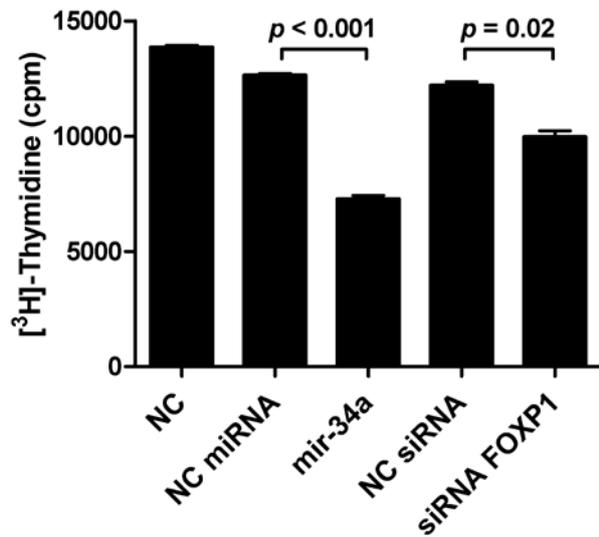
**Figure S4. siRNA-mediated knock-down of Myc reduces FoxP1 expression as efficiently as miR-34a re-introduction in DLBCL cells.** U2932 cells were electroporated with either a Myc-specific siRNA, pre-miR34a or the appropriate negative control (NC) oligonucleotides and analyzed with respect to FoxP1 expression 48 h later. FoxP1 transcript levels were normalized to GAPDH expression.



**Figure S5. miR-34a re-expression represses Myc in DLBCL cells.** U2932 cells were electroporated with pre-miR-34a or a scrambled negative control pre-miR (NC) oligonucleotide 48 h prior to the quantification of Myc expression by qPCR. Absolute expression was normalized to GAPDH.



**Figure S6. Knockdown efficiency of FoxP1.** FoxP1 levels were assessed by qPCR 72 h following electroporation of U2932 cells with FoxP1-specific siRNA or negative control oligonucleotides. FoxP1 transcript levels were normalized to GAPDH expression. The error bars represent the SEM.



**Figure S7. Proliferation of indolent lymphoma cells was not reduced upon knock down of FoxP1 and only modestly reduced by miR-34a re-expression.** SSK41 cells were electroporated with either pre-miR-34a, FoxP1-specific siRNA or the respective negative control oligonucleotides 72 h prior to the quantification of proliferation by  $[^3\text{H}]$  thymidine incorporation.