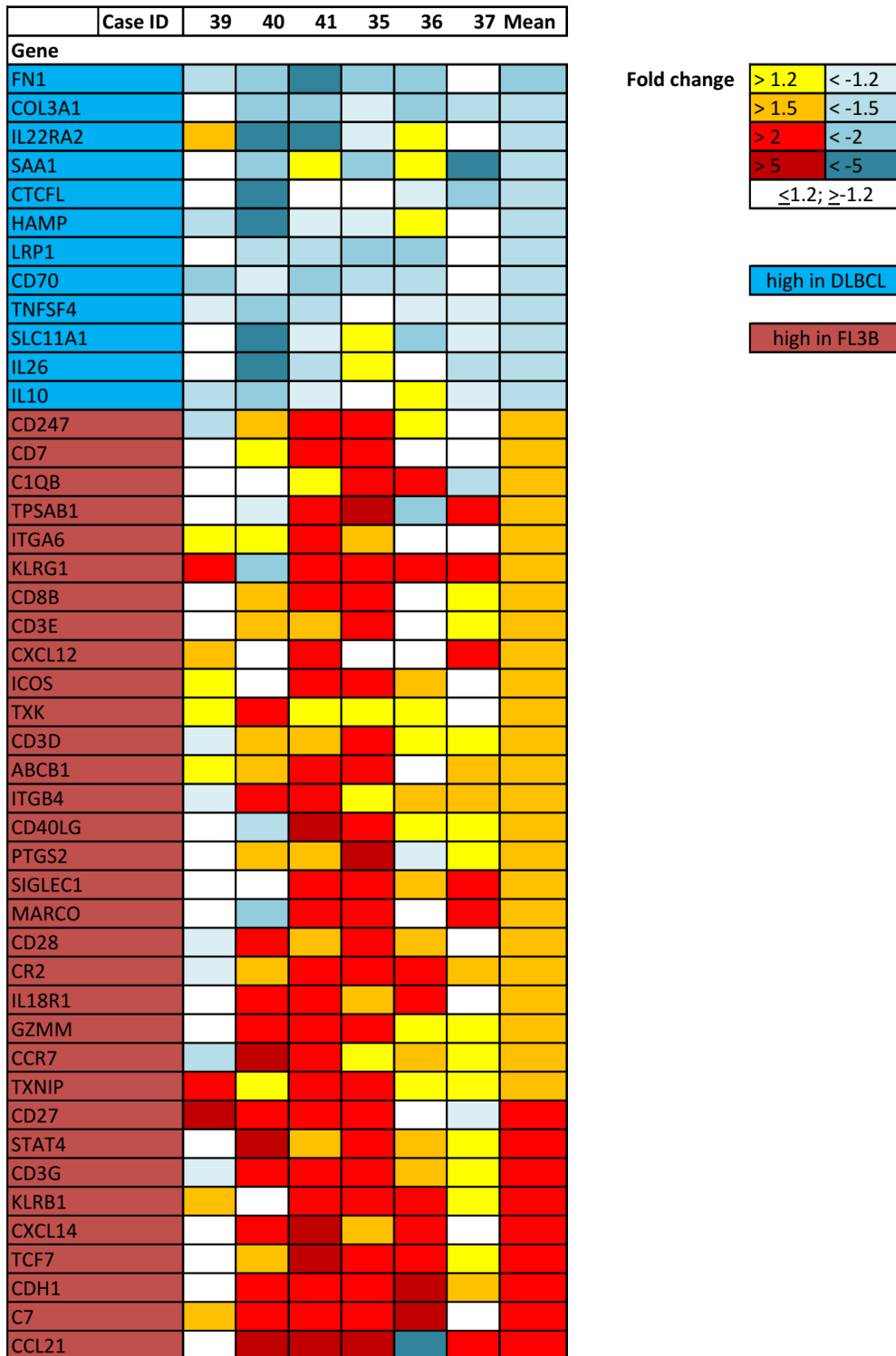


Supplementary material



Supplementary Figure 1: Fold changes of differentially expressed genes between follicular FL3B and DLBCL component of the same patient, in 6 patients with both components available. Individual cases are indicated by the case ID. The fold changes of each individual case and of the geometric mean expression levels over all 6 cases are displayed in color codes as indicated in the legend.

Supplementary Table 1: Overview of regions covered by the AmpliSeq Panel

gene	Ref-Seq	analyzed region*	gene	Ref-Seq	analyzed region*
<i>ARID1A</i>	NM_006015, NM_139135	CDS	<i>MEF2B</i>	NM_001145785	CDS
<i>CARD11</i>	NM_NM032415	CDS	<i>MYC</i>	NM_002467	CDS
<i>CCND3</i>	NM_001287427, NM_001760	CDS	<i>MYD88</i>	NM_001172567	L265
<i>CD79B</i>	NM_000626	CDS	<i>NOTCH1</i>	NM_017617	E25-E34
<i>CREBBP</i>	NM_004380	CDS	<i>NOTCH2</i>	NM_024408	E32-E34
<i>CXCR4</i>	NM_002467	CDS	<i>PIK3CD</i>	NM_001350234	CDS
<i>EP300</i>	NM_001429	CDS	<i>PIM1</i>	NM_001243186	CDS
<i>EZH2</i>	NM_001203247	E4, E14, E16	<i>PRDM1</i>	NM_001198, NM_182907	CDS
<i>FADD</i>	NM_003824	CDS	<i>PTEN</i>	NM_001304717	CDS
<i>FASLG</i>	NM_002015	CDS	<i>PTPRD</i>	NM_002839	E30-E35
<i>FOXO1</i>	NM_001349339	CDS	<i>RHOA</i>	NM_001664	CDS
<i>GNA13</i>	NM_006572	CDS	<i>SF3B1</i>	NM_001005526, NM_012433	E14-E18
<i>ID3</i>	NM_002167	CDS	<i>SOCS1</i>	NM_003745	CDS
<i>IRF4</i>	NM_001195286, NM_002460	CDS	<i>TBL1XR1</i>	NM_024665	E9-E12
<i>IRF8</i>	NM_002163	E1,E2, E7, E8	<i>TCF3</i>	NM_001136139, NM_003200	CDS
<i>KMT2C</i>	NM_170606	CDS	<i>TNFAIP3</i>	NM_001270507, NM_001270508, NM_006290	CDS
<i>KMT2D</i>	NM_003482	CDS	<i>TNFRSF14</i>	NM_001270949, NM_001270950, NM_001270951, NM_003839	CDS
<i>MAP2K1</i>	NM_002755	E1-E6	<i>TP53</i>	NM_000546, NM_001126112, NM_001126113, NM_001126114, NM_001126115, NM_001126116, NM_001126117, NM_001126118	CDS

*:coding and intron boundaries

Supplementary Table 2: List of potential protein changing variants identified by targeted resequencing. (see excel file)

In column B those variants common in all analyzed components and those only identified in single comments are visible. Column C-E shows the different components of each samples and if a variant was identified this specific component (yes: variant was identified, no: variant could be not identified, NA: the component was not present in that sample). Those, variants initially identified as discrepant between the components of that sample but with low frequency (<10%) in the sequencing data are described as "low". The chromosomal position according the genome build hg19 is provided.

Supplementary Table 3: Clinical characteristics and treatment response in follicular lymphoma grade 3B (FL3B) with or without a diffuse large B-cell lymphoma (DLBCL) in comparison with patients with DLBCL without FL 3B

	FL3B alone		FL3B with DLBCL		DLBCL, NOS alone	
Number of patients	17		16		551	
Median age (range)	51 years (29-72)		57 years (29-76)		62 years (18-80)*	
Baseline characteristics	Number	Percent	Number	Percent	Number	Percent
Male sex	13	76.5%	7	43.8%	309	56.1%
Age ≥ 60 years	5	29.4%	6	37.5%	307**	55.7%
ECOG performance status > 1	1	5.9%	0	0.0%	56	10.2%
Lactate dehydrogenase > ULN	10	58.8%	7	43.8%	306	55.5%
Ann Arbor stage III or IV	11	64.7%	10	62.5%	316	57.4%
Extranodal manifestations > 1	2	11.8%	3	18.8%	180	32.7%
Bone marrow infiltration	1	5.9%	0	0.0%	39	7.1%
B symptoms	5	29.4%	1	6.3%	168	30.5%
International Prognostic Index						
Low	9	53.0%	8	50.0%	200	36.4%
Low-intermediate	3	17.6%	3	18.8%	143	26.0%
High-intermediate	4	23.5%	5	31.2%	117	21.3%
High	1	5.9%	0	0.0%	90	16.3%
Treatment response						
Overall response	16	94.1%	15	93.8%	461	83.7%
Complete remission	12	70.6%	10	62.5%	346	62.8%

* p=0.031 (Kruskal-Wallis test); ** p=0.039 (chi² test). ECOG: Eastern Cooperative Oncology Group; ULN: upper limit of normal.

Supplementary Table 4: Genetic variants in FL3B and FL3B+DLBCL

Gene	FL3B+DLBCL (n=16)	FL3B (n=11)	p-value (Fisher's exact test)
<i>ARID1A</i>	1	1	>0.9999
<i>CD79B</i>	1	0	>0.9999
<i>CARD11</i>	1	1	>0.9999
<i>CREBBP</i>	6	0	0.0536
<i>FASLG</i>	0	1	0.4074
<i>FOXO1</i>	2	0	0.4986
<i>GNA13</i>	1	0	>0.9999
<i>ID3</i>	1	0	>0.9999
<i>IRF8</i>	1	0	>0.9999
<i>KMT2C</i>	5	1	0.3497
<i>KMT2D</i>	6	2	0.4048
<i>MEF2B</i>	2	1	>0.9999
<i>MYC</i>	3	0	0,2479
<i>MYD88</i>	0	2	0.1567
<i>NOTCH1</i>	2	0	0.4986
<i>NOTCH2</i>	3	1	0.6239
<i>PIK3CD</i>	1	0	>0.9999
<i>PIM1</i>	2	1	>0.9999
<i>PRDM1</i>	1	0	>0.9999
<i>PTEN</i>	2	0	0.4986
<i>SF3B1</i>	1	0	>0.9999
<i>SOCS1</i>	3	0	0,2479
<i>TBL1XR1</i>	1	1	>0.9999
<i>TNFAIP3</i>	2	0	0.4986
<i>TNFRSF14</i>	2	1	>0.9999
<i>TP53</i>	3	3	0.6618