

Non-invasive detection of somatic mutations using next-generation sequencing in primary central nervous system lymphoma

SUPPLEMENTARY MATERIALS

Supplementary Table 1: Tumor DNA and circulating DNA sequencing results, n=25

See Supplementary File 1

Supplementary Table 2: The Lymphopanel

Gene	Transcript reference	Hotspot/exons partially sequenced	Chromosomal location	Size sequenced (bp)
<i>B2M</i>	NM_000633	Hotspots exons 1 & 2, exon 3	15q21.1	360
<i>BCL2</i>	NM_004048	Hotspot exon 2	18q21.33	585
<i>BRAF</i>	NM_004333	Exon 15	7q34	119
<i>CARD11</i>	NM_032415	Coiled-coil domain exons 4-9	7p22.2	1121
<i>CD58</i>	NM_001779	Exons 1-6	1p13.1	753
<i>CD79A</i>	NM_001783	ITAM domain exons 4 & 5	19q13.2	183
<i>CD79B</i>	NM_000626	ITAM domain exons 5 & 6	17q23.3	141
<i>CDKN2A</i>	NM_058197	Exons 1, 2A, 2B, 3, 4 & 5	9p21.3	1,737
<i>CDKN2B</i>	NM_004936	Exons 1A, 1B & 2	9p21.3	1289
<i>CIITA</i>	NM_000246	Exons 1-19	16p13.13	3393
<i>CREBBP</i>	NM_004380	Exons 1-31	16p13.3	7323
<i>EP300</i>	NM_001429	Exons 1-31	22q13.2	7245
<i>EZH2</i>	NM_001203247	SET domain, hotspots exon 16 & 18	7q36.1	177
<i>FOXO1</i>	NM_002015	Hotspots exon 1 & FH domain exon 2	13q14.11	780
<i>GNA13</i>	NM_006572	Exons 1-4	17q24.1	1134
<i>ID3</i>	NM_002167	Exons 1 & 2	1p36.12	360
<i>IRF4/MUM1</i>	NM_002460	Exons 2-9	6p25.3	1356
<i>ITPKB</i>	NM_002221	Exons 2-8	1q42.12	2830
<i>KMT2D/MLL2</i>	NM_003482	Exons 1-54	12q13.12	16614
<i>MEF2B</i>	NM_005919	Exons 2-9	19p13.11	1107
<i>MFHAS1</i>	NM_004225	Exons 1-3	8p23.1	3159
<i>MYC</i>	NM_002467	Exons 1-3	8q24.21	1365
<i>MYD88</i>	NM_001172567	Exons 2-5	3p22.2	587
<i>NOTCH1</i>	NM_017617	PEST domain exon 34	9q34.3	1488
<i>NOTCH2</i>	NM_024408	Exons 26-28 & 34 (HD/PEST domains)	1p12-p11.2	2091
<i>PIM1</i>	NM_001243186	Exons 1-6	6p21.2	942
<i>PRDM1/ BLIMP1</i>	NM_001198	Exons 1-7	6q21	2478
<i>SOCS1</i>	NM_003745	Exon 2	16p13.13	636
<i>STAT6</i>	NM_001178078	Exons 9-14 (DNA binding domain hotspot)	12q13.3	795
<i>TCF3</i>	NM_001136139	B-HLH domain of E47 isoform exons 17 & 18	19p13.3	370
<i>TNFAIP3</i>	NM_001270507	Exons 2-9	6q23.3	2373
<i>TNFRSF14</i>	NM_003820	Exons 1-8	1p36.32	852
<i>TP53</i>	NM_000546	Mutation hotspots exons 4-10	17p13.1	1004
<i>XPO1</i>	NM_003400	Exons 15-18	2p15	640

Supplementary Table 3: Dilution test for *MYD88* c.T778C

Experiment	Tested VAF	Number of mutated reads (c.T778C)	Number of all reads	VAF (%)	Interpretation
No 1	1%	491	64825	0.75%	Pos
	0.50%	47	8942	0.53%	Pos
	0.10%	11	10361	0.11%	Pos
	0.05%	15	16220	0.09%	Pos
	0%	5	19895	0.03%	Pos
No 2	1%	228	33807	0.67%	Pos
	0.50%	45	8910	0.50%	Pos
	0.10%	4	3739	0.11%	Pos
	0.05%	0	2200	0%	Neg
	0%	1	5034	0.02%	Pos
No 3	1%	279	24184	1.15%	Pos
	0.50%	42	9192	0.46%	Pos
	0.10%	0	3778	0%	Neg
	0.05%	3	2451	0.12%	Pos
	0%	2	5208	0.04%	Pos
No 4	1%	71	8102	0.88%	Pos
	0.50%	21	5109	0.41%	Pos
	0.10%	7	3046	0.23%	Pos
	0.05%	4	2330	0.17%	Pos
	0%	0	3625	0%	Neg
No 5	1%	62	10145	0.61%	Pos
	0.50%	15	2059	0.73%	Pos
	0.10%	0	1112	0%	Neg
	0.05%	1	416	0.24%	Pos
	0%	0	443	0%	Neg
No 6	1%	106	9578	1.11%	Pos
	0.50%	13	1821	0.71%	Pos
	0.10%	2	1165	0.17%	Pos
	0.05%	0	569	0%	Neg
	0%	0	956	0%	Neg