

**Fernández S, et al. Circulating tumor DNA for monitoring classic Hodgkin lymphoma patients: correlation with FDG-PET/CT. Supplemental tables.**

**Supplemental Table 1**

Clinical variable	Category	N	Percentage
Sex	Male	30	65%
	Female	16	35%
Age	<60	17	37%
	>60	29	63%
Histology	LR	1	2%
	MC	16	35%
	NS	26	56%
	NC	3	7%
Stage	I	0	0%
	II	11	24%
	III	10	22%
	IV	25	54%
B symptoms	A	40	87%
	B	6	13%
IPS	0-2	16	35%
	≥ 3	28	61%
Treatment	ABVD	12	26%
	BV	5	11%
	BV-EPEM	29	63%
Response	CR	23	50%
	PR	10	22%
	PD	8	17%
	NA	5	11%
Current state	Alive	34	74%
	Exitus	12	26%

NC: Not-classified  
 NS: nodular sclerosis  
 MC: mixed cellularity  
 LR: lymphocyte rich  
 CR: complete response  
 PR: partial response  
 PD: progression disease  
 NA: not available

Supplemental Table 2

GENE	CODING	HL CASE#, VARIANT ALLELE FREQUENCY (%)													%
		LH210010_1	LH210010_2	LH200002_1	LH200002_2	LH210011_1	LH210011_2	LH200003_1	LH200003_2	C191819_1	C191819_2	LH1900001_1	LH1900001_2	LH210013_1	
ABL1	c.3020C>T						NA							NA	1,3%
B2M	c.347-1G>T														2,6%
B2M	c.41_44delCTCT														1,3%
B2M	c.64C>T														1,3%
B2M	c.67C>T														1,3%
B2M	c.67+5G>C				5,36										1,3%
BCL10	c.521T>A														2,6%
CARD11	c.1017+99T>C									7,66					10,3%
CARD11	c.1940+81G>A														2,6%
CARD11	c.1864_1866delITCC														1,3%
CARD11	c.1599_1600insT														1,3%
CARD11	c.3274C>T							7,77							1,3%
CASP8	c.1357C>G														2,6%
CASP8	c.151+3G>A														2,6%
CD19	c.1267A>G							6,10							1,3%
CD38	c.652A>T					2,63									1,3%
CREBBP	c.6980C>T														2,6%
CREBBP	c.6877C>T								13,99						1,3%
CREBBP	c.5173-20T>C								11,41						1,3%
CREBBP	c.1573+11G>T								6,10						1,3%
CSF1R	c.241A>G														2,6%
CSF1R	c.726_727insT														2,6%
CSF1R	c.2655-49C>T														1,3%
CSF1R	c.2113G>A														1,3%
CSF1R	c.1626+3G>A														1,3%
CSF1R	c.1969+85C>T								13,83						1,3%
CSF1R	c.1109G>A								6,86						1,3%
CSF2	c.32C>T														1,3%
CSF2RB	c.553G>A														2,6%
CSF2RB	c.855-1G>T														1,3%
CSF2RB	c.787G>A							12,82							1,3%
CSF2RB	c.855-38C>T								5,90						1,3%
CSF2RB	c.855-35C>T								7,45						1,3%
CYLD	c.2678-18T>C														1,3%
EP300	c.3182_3183insA														11,5%
EP300	c.4517delG														5,1%
EP300	c.1529-20G>A								6,50						1,3%
FAS	c.677-19_677-18insT														3,8%
FAS	c.641_642insC									50,49					2,6%
LCP1	c.491+60T>C														2,6%
LCP1	c.1172A>G					3,54									1,3%
LOC10012849	c.2170A>G														1,3%
LOC10012849	c.3061G>A							6,05							1,3%
LOC10012849	c.2897C>T								6,20						1,3%
MYB	c.545A>G									4,60					9,0%
MYB	c.528-5T>C														1,3%
MYC	c.593C>T								8,50						1,3%
NOTCH1	c.6521A>G														2,6%
NOTCH1	c.4348G>A														2,6%
NOTCH1	c.383G>A														1,3%
NOTCH1	c.1978G>A							6,20							1,3%
NOTCH1	c.218C>T							5,70							1,3%
NOTCH1	c.1477G>A								9,81						1,3%
NUMA1	c.5654G>A								7,54						1,3%
PIK3CD	c.931-9G>C														7,7%
PIK3CD	c.931-14_931-13insC														5,1%
PTPN1	c.702+56delG														3,8%
PTPN1	c.1089-51C>T								7,20						1,3%
REL	c.133C>T								7,10						1,3%
RET	c.2233C>T								8,65						1,3%
SH3BP5	c.330+47C>A														2,6%
SH3BP5	c.330+47_330+48insA														1,3%
SH3BP5,SH3B	c.1174A>G														2,6%
SMARCA4	c.1119-12C>T														2,6%
SMARCA4	c.577G>A														1,3%
SMARCA4	c.2974G>A														1,3%
SMARCA4	c.3598C>T							6,65							1,3%
SOCS1	c.307_321delGTGCGCGACAGCCGC					3,37									1,3%
STAT3	c.332A>G														1,3%
STAT6	c.910delG														10,3%
STAT6	c.256-4G>A														2,6%
STAT6	c.940G>A				44,70	42,03									2,6%
STAT6	c.1513-20C>T														1,3%
STAT6	c.1876C>T								8,15						1,3%
STAT6	c.681-7G>A								10,57						1,3%
TNFAIP3	c.1018_1021delAATC														2,6%
TNFAIP3	c.131A>T														2,6%
TNFAIP3	c.487-11G>T														2,6%
TNFAIP3	c.1343G>A														1,3%
TP53	c.215C>G														6,4%
TP53	c.97-6C>T														5,1%
TP53	c.97-52G>A														2,6%
TP53	c.524G>A														2,6%
TP53	c.473G>A														1,3%
TP53	c.818G>C														1,3%
	SNVs	0	0	1	2	3	NA	5	19	3	0	0	0	NA	

GENE	CODING											%
		LH210013_2	LH210014_1	LH210014_2	LH210012_1	LH210012_2	LH200004_1	LH200004_2	LH200005_1	LH200005_2	C212118_1	
ABL1	c.3020C>T		NA	NA	NA	NA					NA	1,3%
B2M	c.347-1G>T											2,6%
B2M	c.41_44delCT	7.28										1,3%
B2M	c.64C>T	6.95										1,3%
B2M	c.67C>T	7.20										1,3%
B2M	c.67+5G>C											1,3%
BCL10	c.521T>A											2,6%
CARD11	c.1017+99T>C											10,3%
CARD11	c.1940+81G>A											2,6%
CARD11	c.1864_1866delTCC											1,3%
CARD11	c.1599_1600insT											1,3%
CARD11	c.3274C>T											1,3%
CASP8	c.1357C>G											2,6%
CASP8	c.151+3G>A											2,6%
CD19	c.1267A>G											1,3%
CD38	c.652A>T											1,3%
CREBBP	c.6980C>T											2,6%
CREBBP	c.6877C>T											1,3%
CREBBP	c.5173-20T>C											1,3%
CREBBP	c.1573+11G>T											1,3%
CSF1R	c.241A>G											2,6%
CSF1R	c.726_727insT											2,6%
CSF1R	c.2655-49C>T											1,3%
CSF1R	c.2113G>A											1,3%
CSF1R	c.1626+3G>A											1,3%
CSF1R	c.1969+85C>T											1,3%
CSF1R	c.1109G>A											1,3%
CSF2	c.32C>T											1,3%
CSF2RB	c.553G>A											2,6%
CSF2RB	c.855-1G>T											1,3%
CSF2RB	c.787G>A											1,3%
CSF2RB	c.855-38C>T											1,3%
CSF2RB	c.855-35C>T											1,3%
CYLD	c.2678-18T>C											1,3%
EP300	c.3182_3183insA											11,5%
EP300	c.4517delG	44.54										5,1%
EP300	c.1529-20G>A											1,3%
FAS	c.677-19_677-18insT											3,8%
FAS	c.641_642insC											2,6%
LCP1	c.491+60T>C											2,6%
LCP1	c.1172A>G											1,3%
LOC10012849	c.2170A>G											1,3%
LOC10012849	c.3061G>A											1,3%
LOC10012849	c.2897C>T											1,3%
MYB	c.545A>G											9,0%
MYB	c.528-5T>C											1,3%
MYC	c.593C>T											1,3%
NOTCH1	c.6521A>G											2,6%
NOTCH1	c.4348G>A											2,6%
NOTCH1	c.383G>A											1,3%
NOTCH1	c.1978G>A											1,3%
NOTCH1	c.218C>T											1,3%
NOTCH1	c.1477G>A											1,3%
NUMA1	c.5654G>A											1,3%
PIK3CD	c.931-9G>C											7,7%
PIK3CD	c.931-14_931-13insC						47.42					5,1%
PTPN1	c.702+56delG											3,8%
PTPN1	c.1089-51C>T											1,3%
REL	c.133C>T											1,3%
RET	c.2233C>T											1,3%
SH3BP5	c.330+47C>A											2,6%
SH3BP5	c.330+47_330+48insA											1,3%
SH3BP5,SH3B	c.1174A>G											2,6%
SMARCA4	c.1119-12C>T											2,6%
SMARCA4	c.577G>A											1,3%
SMARCA4	c.2974G>A											1,3%
SMARCA4	c.3598C>T											1,3%
SOCS1	c.307_321delGTGCGGACAGCCGC											1,3%
STAT3	c.332A>G											1,3%
STAT6	c.910delG						44.99					10,3%
STAT6	c.256-4G>A											2,6%
STAT6	c.940G>A											2,6%
STAT6	c.1513-20C>T											1,3%
STAT6	c.1876C>T											1,3%
STAT6	c.681-7G>A											1,3%
TNFAIP3	c.1018_1021delAATC											2,6%
TNFAIP3	c.131A>T											2,6%
TNFAIP3	c.487-11G>T											2,6%
TNFAIP3	c.1343G>A	10.95										1,3%
TP53	c.215C>G							CAC=1.29, CGC=43.41				6,4%
TP53	c.97-6C>T											5,1%
TP53	c.97-52G>A											2,6%
TP53	c.524G>A											2,6%
TP53	c.473G>A											1,3%
TP53	c.818G>C	20.27										1,3%
	SNVs	6	NA	NA	NA	NA	2	0	1	0	NA	

GENE	CODING	NA										%		
		C212118_2	LH220015_1	LH220015_2	LH220016_1	LH220016_2	C222201_1	C222201_2	LH230118_1	LH230118_2	LH230119_1		LH230119_2	
ABL1	c.3020C>T													1,3%
B2M	c.347-1G>T													2,6%
B2M	c.41_44delCTCT													1,3%
B2M	c.64C>T													1,3%
B2M	c.67C>T													1,3%
B2M	c.67+5G>C													1,3%
BCL10	c.521T>A													2,6%
CARD11	c.1017+99T>C													10,3%
CARD11	c.1940+81G>A													2,6%
CARD11	c.1864_1866delTCC													1,3%
CARD11	c.1599_1600insT													1,3%
CARD11	c.3274C>T													1,3%
CASP8	c.1357C>G													2,6%
CASP8	c.151+3G>A													2,6%
CD19	c.1267A>G													1,3%
CD38	c.652A>T													1,3%
CREBBP	c.6980C>T													2,6%
CREBBP	c.6877C>T													1,3%
CREBBP	c.5173-20T>C													1,3%
CREBBP	c.1573+11G>T													1,3%
CSF1R	c.241A>G													2,6%
CSF1R	c.726_727insT				53.26									2,6%
CSF1R	c.2655-49C>T													1,3%
CSF1R	c.2113G>A													1,3%
CSF1R	c.1626+3G>A													1,3%
CSF1R	c.1969+85C>T													1,3%
CSF1R	c.1109G>A													1,3%
CSF2	c.32C>T													1,3%
CSF2RB	c.553G>A													2,6%
CSF2RB	c.855-1G>T													1,3%
CSF2RB	c.787G>A													1,3%
CSF2RB	c.855-38C>T													1,3%
CSF2RB	c.855-35C>T													1,3%
CYLD	c.2678-18T>C													1,3%
EP300	c.3182_3183insA													11,5%
EP300	c.4517delG													5,1%
EP300	c.1529-20G>A													1,3%
FAS	c.677-19_677-18insT													3,8%
FAS	c.641_642insC													2,6%
LCP1	c.491+60T>C													2,6%
LCP1	c.1172A>G													1,3%
LOC10012849	c.2170A>G													1,3%
LOC10012849	c.3061G>A													1,3%
LOC10012849	c.2897C>T													1,3%
MYB	c.545A>G													9,0%
MYB	c.528-5T>C													1,3%
MYC	c.593C>T													1,3%
NOTCH1	c.6521A>G													2,6%
NOTCH1	c.4348G>A													2,6%
NOTCH1	c.383G>A													1,3%
NOTCH1	c.1978G>A													1,3%
NOTCH1	c.218C>T													1,3%
NOTCH1	c.1477G>A													1,3%
NUMA1	c.5654G>A													1,3%
PIK3CD	c.931-9G>C													7,7%
PIK3CD	c.931-14_931-13insC													5,1%
PTPN1	c.702+56delG													3,8%
PTPN1	c.1089-51C>T													1,3%
REL	c.133C>T													1,3%
RET	c.2233C>T													1,3%
SH3BP5	c.330+47C>A													2,6%
SH3BP5	c.330+47_330+48insA													1,3%
SH3BP5,SH3B	c.1174A>G													2,6%
SMARCA4	c.1119-12C>T													2,6%
SMARCA4	c.577G>A													1,3%
SMARCA4	c.2974G>A													1,3%
SMARCA4	c.3598C>T													1,3%
SOCS1	c.307_321delGTGCGGACAGCCGC													1,3%
STAT3	c.332A>G													1,3%
STAT6	c.910delG		42,40											10,3%
STAT6	c.256-4G>A													2,6%
STAT6	c.940G>A													2,6%
STAT6	c.1513-20C>T													1,3%
STAT6	c.1876C>T													1,3%
STAT6	c.681-7G>A													1,3%
TNFAIP3	c.1018_1021delAATC													2,6%
TNFAIP3	c.131A>T								12.77	12.01				2,6%
TNFAIP3	c.487-11G>T				49.04	53.99								2,6%
TNFAIP3	c.1343G>A													1,3%
TP53	c.215C>G													6,4%
TP53	c.97-6C>T													5,1%
TP53	c.97-52G>A													2,6%
TP53	c.524G>A								10.65	8.30				2,6%
TP53	c.473G>A													1,3%
TP53	c.818G>C													1,3%
	SNVs	NA	1	0	2	1	0	0	2	2	0	0		

GENE	CODING											%
		BR190003_1	BR190003_2	BR190004_1	BR190004_2	BR190005_1	BR190005_2	BR190006_1	BR190006_2	BR190007_1	BR190007_2	
ABL1	c.3020C>T											1,3%
B2M	c.347-1G>T											2,6%
B2M	c.41_44delCTCT											1,3%
B2M	c.64C>T											1,3%
B2M	c.67C>T											1,3%
B2M	c.67+5G>C											1,3%
BCL10	c.521T>A											2,6%
CARD11	c.1017+99T>C			6,30	5,60							10,3%
CARD11	c.1940+81G>A											2,6%
CARD11	c.1864_1866delTCC											1,3%
CARD11	c.1599_1600insT											1,3%
CARD11	c.3274C>T											1,3%
CASP8	c.1357C>G	49,42	48,92									2,6%
CASP8	c.151+3G>A											2,6%
CD19	c.1267A>G											1,3%
CD38	c.652A>T											1,3%
CREBBP	c.6980C>T											2,6%
CREBBP	c.6877C>T											1,3%
CREBBP	c.5173-20T>C											1,3%
CREBBP	c.1573+11G>T											1,3%
CSF1R	c.241A>G											2,6%
CSF1R	c.726_727insT											2,6%
CSF1R	c.2655-49C>T											1,3%
CSF1R	c.2113G>A											1,3%
CSF1R	c.1626+3G>A											1,3%
CSF1R	c.1969+85C>T											1,3%
CSF1R	c.1109G>A											1,3%
CSF2	c.32C>T											1,3%
CSF2RB	c.553G>A											2,6%
CSF2RB	c.855-1G>T											1,3%
CSF2RB	c.787G>A											1,3%
CSF2RB	c.855-38C>T											1,3%
CSF2RB	c.855-35C>T											1,3%
CYLD	c.2678-18T>C											1,3%
EP300	c.3182_3183insA			51,64								11,5%
EP300	c.4517delG			26,31								5,1%
EP300	c.1529-20G>A											1,3%
FAS	c.677-19_677-18insT					24,06						3,8%
FAS	c.641_642insC											2,6%
LCP1	c.491+60T>C											2,6%
LCP1	c.1172A>G											1,3%
LOC10012849	c.2170A>G											1,3%
LOC10012849	c.3061G>A											1,3%
LOC10012849	c.2897C>T											1,3%
MYB	c.545A>G											9,0%
MYB	c.528-5T>C											1,3%
MYC	c.593C>T											1,3%
NOTCH1	c.6521A>G											2,6%
NOTCH1	c.4348G>A											2,6%
NOTCH1	c.383G>A											1,3%
NOTCH1	c.1978G>A											1,3%
NOTCH1	c.218C>T											1,3%
NOTCH1	c.1477G>A											1,3%
NUMA1	c.5654G>A											1,3%
PIK3CD	c.931-9G>C											7,7%
PIK3CD	c.931-14_931-13insC											5,1%
PTPN1	c.702+56delG											3,8%
PTPN1	c.1089-51C>T											1,3%
REL	c.133C>T											1,3%
RET	c.2233C>T											1,3%
SH3BP5	c.330+47C>A											2,6%
SH3BP5	c.330+47_330+48insA											1,3%
SH3BP5,SH3B	c.1174A>G											2,6%
SMARCA4	c.1119-12C>T											2,6%
SMARCA4	c.577G>A											1,3%
SMARCA4	c.2974G>A											1,3%
SMARCA4	c.3598C>T											1,3%
SOCS1	c.307_321delGTGCGCAGACGCCG											1,3%
STAT3	c.332A>G											1,3%
STAT6	c.910delG		TGGGG=5,63, TGGGG									10,3%
STAT6	c.256-4G>A						48,00	48,40				2,6%
STAT6	c.940G>A											2,6%
STAT6	c.1513-20C>T											1,3%
STAT6	c.1876C>T											1,3%
STAT6	c.681-7G>A											1,3%
TNFAIP3	c.1018_1021delAATC											2,6%
TNFAIP3	c.131A>T											2,6%
TNFAIP3	c.487-11G>T											2,6%
TNFAIP3	c.1343G>A											1,3%
TP53	c.215C>G											6,4%
TP53	c.97-6C>T											5,1%
TP53	c.97-52G>A											2,6%
TP53	c.524G>A											2,6%
TP53	c.473G>A											1,3%
TP53	c.818G>C											1,3%
	SNVs	1	1	4	2	0	1	1	1	0	0	

GENE	CODING											%
		BR190008_1	BR190008_2	BR190009_1	BR190009_2	BR190010_1	BR190010_2	BR190011_1	BR190011_2	BR190012_1	BR190012_2	
ABL1	c.3020C>T										NA	1,3%
B2M	c.347-1G>T			22,71	19,73							2,6%
B2M	c.41_44delCTCT											1,3%
B2M	c.64C>T											1,3%
B2M	c.67C>T											1,3%
B2M	c.67+5G>C											1,3%
BCL10	c.521T>A			17,13	13,74							2,6%
CARD11	c.1017+99T>C											10,3%
CARD11	c.1940+81G>A											2,6%
CARD11	c.1864_1866delTCC		GGGAGGAGAA=1.52, GGGAGGAG=3.09									1,3%
CARD11	c.1599_1600insT											1,3%
CARD11	c.3274C>T											1,3%
CASP8	c.1357C>G											2,6%
CASP8	c.151+3G>A											2,6%
CD19	c.1267A>G											1,3%
CD38	c.652A>T											1,3%
CREBBP	c.6980C>T					48,35	52,65					2,6%
CREBBP	c.6877C>T											1,3%
CREBBP	c.5173-20T>C											1,3%
CREBBP	c.1573+11G>T											1,3%
CSF1R	c.241A>G							37,98	43,58			2,6%
CSF1R	c.726_727insT											2,6%
CSF1R	c.2655-49C>T											1,3%
CSF1R	c.2113G>A											1,3%
CSF1R	c.1626+3G>A											1,3%
CSF1R	c.1969+85C>T											1,3%
CSF1R	c.1109G>A											1,3%
CSF2	c.32C>T											1,3%
CSF2RB	c.553G>A											2,6%
CSF2RB	c.855-1G>T											1,3%
CSF2RB	c.787G>A											1,3%
CSF2RB	c.855-38C>T											1,3%
CSF2RB	c.855-35C>T											1,3%
CYLD	c.2678-18T>C											1,3%
EP300	c.3182_3183insA							77,66	62,59			11,5%
EP300	c.4517delG											5,1%
EP300	c.1529-20G>A											1,3%
FAS	c.677-19_677-18insT						24,97					3,8%
FAS	c.641_642insC											2,6%
LCP1	c.491+60T>C		44,39	44,01								2,6%
LCP1	c.1172A>G											1,3%
LOC10012849	c.2170A>G											1,3%
LOC10012849	c.3061G>A											1,3%
LOC10012849	c.2897C>T											1,3%
MYB	c.545A>G				7,62							9,0%
MYB	c.528-5T>C											1,3%
MYC	c.593C>T											1,3%
NOTCH1	c.6521A>G					51,10	46,75					2,6%
NOTCH1	c.4348G>A											2,6%
NOTCH1	c.383G>A											1,3%
NOTCH1	c.1978G>A											1,3%
NOTCH1	c.218C>T											1,3%
NOTCH1	c.1477G>A											1,3%
NUMA1	c.5654G>A											1,3%
PIK3CD	c.931-9G>C											7,7%
PIK3CD	c.931-14_931-13insC											5,1%
PTPN1	c.702+56delG											3,8%
PTPN1	c.1089-51C>T											1,3%
REL	c.133C>T											1,3%
RET	c.2233C>T											1,3%
SH3BP5	c.330+47C>A											2,6%
SH3BP5	c.330+47_330+48insA											1,3%
SH3BP5,SH3B	c.1174A>G											2,6%
SMARCA4	c.1119-12C>T					47,75	48,50					2,6%
SMARCA4	c.577G>A											1,3%
SMARCA4	c.2974G>A											1,3%
SMARCA4	c.3598C>T											1,3%
SOCS1	c.307_321delGTGCGCAGAGCCGC											1,3%
STAT3	c.332A>G											1,3%
STAT6	c.910delG		=8.03, TGGGGC=27.98									10,3%
STAT6	c.256-4G>A											2,6%
STAT6	c.940G>A											2,6%
STAT6	c.1513-20C>T											1,3%
STAT6	c.1876C>T											1,3%
STAT6	c.681-7G>A											1,3%
TNFAIP3	c.1018_1021delAATC		25,35	37,74								2,6%
TNFAIP3	c.131A>T											2,6%
TNFAIP3	c.487-11G>T											2,6%
TNFAIP3	c.1343G>A											1,3%
TP53	c.215C>G											6,4%
TP53	c.97-6C>T											5,1%
TP53	c.97-52G>A	49,23	54,34									2,6%
TP53	c.524G>A											2,6%
TP53	c.473G>A											1,3%
TP53	c.818G>C											1,3%
	SNVs	2	1	5	5	3	4	2	2	NA	0	

GENE	CODING											%
		BR190013_1	BR190013_2	BR190014_1	BR190014_2	BR190015_1	BR190015_2	BR190016_1	BR190016_2	BR190017_1	BR190017_2	
ABL1	c.3020C>T							9,39				1,3%
B2M	c.347-1G>T											2,6%
B2M	c.41_44delCTCT											1,3%
B2M	c.64C>T											1,3%
B2M	c.67C>T											1,3%
B2M	c.67+5G>C											1,3%
BCL10	c.521T>A											2,6%
CARD11	c.1017+99T>C			6,20								10,3%
CARD11	c.1940+81G>A	49,23	56,13									2,6%
CARD11	c.1864_1866delTCC											1,3%
CARD11	c.1599_1600insT											1,3%
CARD11	c.3274C>T											1,3%
CASP8	c.1357C>G											2,6%
CASP8	c.151+3G>A			43,41	35,45							2,6%
CD19	c.1267A>G											1,3%
CD38	c.652A>T											1,3%
CREBBP	c.6980C>T											2,6%
CREBBP	c.6877C>T											1,3%
CREBBP	c.5173-20T>C											1,3%
CREBBP	c.1573+11G>T											1,3%
CSF1R	c.241A>G											2,6%
CSF1R	c.726_727insT							TA=59,28, TG=17,73				2,6%
CSF1R	c.2655-49C>T							7,78				1,3%
CSF1R	c.2113G>A							5,98				1,3%
CSF1R	c.1626+3G>A											1,3%
CSF1R	c.1969+85C>T											1,3%
CSF1R	c.1109G>A											1,3%
CSF2	c.32C>T											1,3%
CSF2RB	c.553G>A											2,6%
CSF2RB	c.855-1G>T											1,3%
CSF2RB	c.787G>A											1,3%
CSF2RB	c.855-38C>T											1,3%
CSF2RB	c.855-35C>T											1,3%
CYLD	c.2678-18T>C											1,3%
EP300	c.3182_3183insA						50,13		47,76	49,20	48,37	11,5%
EP300	c.4517delG											5,1%
EP300	c.1529-20G>A											1,3%
FAS	c.677-19_677-18insT											3,8%
FAS	c.641_642insC											2,6%
LCP1	c.491+60T>C											2,6%
LCP1	c.1172A>G											1,3%
LOC10012849	c.2170A>G											1,3%
LOC10012849	c.3061G>A											1,3%
LOC10012849	c.2897C>T											1,3%
MYB	c.545A>G											9,0%
MYB	c.528-5T>C							11,07				1,3%
MYC	c.593C>T											1,3%
NOTCH1	c.6521A>G											2,6%
NOTCH1	c.4348G>A											2,6%
NOTCH1	c.383G>A											1,3%
NOTCH1	c.1978G>A											1,3%
NOTCH1	c.218C>T											1,3%
NOTCH1	c.1477G>A											1,3%
NUMA1	c.5654G>A											1,3%
PIK3CD	c.931-9G>C					53,36	48,56	6,03				7,7%
PIK3CD	c.931-14_931-13insC											5,1%
PTPN1	c.702+56delG											3,8%
PTPN1	c.1089-51C>T											1,3%
REL	c.133C>T											1,3%
RET	c.2233C>T											1,3%
SH3BP5	c.330+47C>A											2,6%
SH3BP5	c.330+47_330+48insA											1,3%
SH3BP5,SH3B	c.1174A>G											2,6%
SMARCA4	c.1119-12C>T											2,6%
SMARCA4	c.577G>A											1,3%
SMARCA4	c.2974G>A											1,3%
SMARCA4	c.3598C>T											1,3%
SOCS1	c.307_321delGTGCGCAGACGGC											1,3%
STAT3	c.332A>G											1,3%
STAT6	c.910delG											10,3%
STAT6	c.256-4G>A											2,6%
STAT6	c.940G>A											2,6%
STAT6	c.1513-20C>T											1,3%
STAT6	c.1876C>T											1,3%
STAT6	c.681-7G>A											1,3%
TNFAIP3	c.1018_1021delAATC											2,6%
TNFAIP3	c.131A>T											2,6%
TNFAIP3	c.487-11G>T											2,6%
TNFAIP3	c.1343G>A											1,3%
TP53	c.215C>G							CGCGGG=48.46, CGGGGA=1.0, GCGGG=47.35, CGGGA=1.47				6,4%
TP53	c.97-6C>T	52,25	44,68									5,1%
TP53	c.97-52G>A											2,6%
TP53	c.524G>A											2,6%
TP53	c.473G>A											1,3%
TP53	c.818G>C											1,3%
	SNVs	2	2	2	1	1	2	7	1	2	1	

GENE	CODING											%
		BR190019_1	BR190019_2	BR190020_1	BR190020_2	BR200021_1	BR200021_2	BR200023_1	BR200023_2	BR200026_1	BR200026_2	
ABL1	c.3020C>T					NA						1,3%
B2M	c.347-1G>T											2,6%
B2M	c.41_44delCTCT											1,3%
B2M	c.64C>T											1,3%
B2M	c.67C>T											1,3%
B2M	c.67+5G>C											1,3%
BCL10	c.521T>A											2,6%
CARD11	c.1017+99T>C			5,40								10,3%
CARD11	c.1940+81G>A											2,6%
CARD11	c.1864_1866delTCC											1,3%
CARD11	c.1599_1600insT											1,3%
CARD11	c.3274C>T											1,3%
CASP8	c.1357C>G											2,6%
CASP8	c.151+3G>A											2,6%
CD19	c.1267A>G											1,3%
CD38	c.652A>T											1,3%
CREBBP	c.6980C>T											2,6%
CREBBP	c.6877C>T											1,3%
CREBBP	c.5173-20T>C											1,3%
CREBBP	c.1573+11G>T											1,3%
CSF1R	c.241A>G											2,6%
CSF1R	c.726_727insT											2,6%
CSF1R	c.2655-49C>T											1,3%
CSF1R	c.2113G>A											1,3%
CSF1R	c.1626+3G>A											1,3%
CSF1R	c.1969+85C>T											1,3%
CSF1R	c.1109G>A											1,3%
CSF2	c.32C>T											1,3%
CSF2RB	c.553G>A											2,6%
CSF2RB	c.855-1G>T											1,3%
CSF2RB	c.787G>A											1,3%
CSF2RB	c.855-38C>T											1,3%
CSF2RB	c.855-35C>T											1,3%
CYLD	c.2678-18T>C											1,3%
EP300	c.3182_3183insA											11,5%
EP300	c.4517delG											5,1%
EP300	c.1529-20G>A											1,3%
FAS	c.677-19_677-18insT											3,8%
FAS	c.641_642insC			52,61								2,6%
LCP1	c.491+60T>C											2,6%
LCP1	c.1172A>G											1,3%
LOC10012849	c.2170A>G											1,3%
LOC10012849	c.3061G>A											1,3%
LOC10012849	c.2897C>T											1,3%
MYB	c.545A>G			5,30				5,30		5,65		9,0%
MYB	c.528-5T>C											1,3%
MYC	c.593C>T											1,3%
NOTCH1	c.6521A>G											2,6%
NOTCH1	c.4348G>A			48,02	51,23							2,6%
NOTCH1	c.383G>A											1,3%
NOTCH1	c.1978G>A											1,3%
NOTCH1	c.218C>T											1,3%
NOTCH1	c.1477G>A											1,3%
NUMA1	c.5654G>A											1,3%
PIK3CD	c.931-9G>C							51,35				7,7%
PIK3CD	c.931-14_931-13insC							50,20				5,1%
PTPN1	c.702+56delG											3,8%
PTPN1	c.1089-51C>T											1,3%
REL	c.133C>T											1,3%
RET	c.2233C>T											1,3%
SH3BP5	c.330+47C>A											2,6%
SH3BP5	c.330+47_330+48insA											1,3%
SH3BP5,SH3B	c.1174A>G											2,6%
SMARCA4	c.1119-12C>T											2,6%
SMARCA4	c.577G>A											1,3%
SMARCA4	c.2974G>A											1,3%
SMARCA4	c.3598C>T											1,3%
SOCS1	c.307_321delGTGCGCAGCCGC											1,3%
STAT3	c.332A>G											1,3%
STAT6	c.910delG											10,3%
STAT6	c.256-4G>A											2,6%
STAT6	c.940G>A											2,6%
STAT6	c.1513-20C>T											1,3%
STAT6	c.1876C>T											1,3%
STAT6	c.681-7G>A											1,3%
TNFAIP3	c.1018_1021delAATC											2,6%
TNFAIP3	c.131A>T											2,6%
TNFAIP3	c.487-11G>T											2,6%
TNFAIP3	c.1343G>A											1,3%
TP53	c.215C>G											6,4%
TP53	c.97-6C>T											5,1%
TP53	c.97-52G>A											2,6%
TP53	c.524G>A											2,6%
TP53	c.473G>A											1,3%
TP53	c.818G>C											1,3%
	SNVs	0	0	4	1	NA	2	1	0	1	0	



GENE	CODING													%
		BR200026_1	BR200026_2	BR200027_1	BR200027_2	BR200028_1	BR200028_2	BR200030_1	BR200030_2	BR200031_1	BR200031_2	BR200032_1	BR200032_2	
ABL1	c.3020C>T					NA	NA							1,3%
B2M	c.347-1G>T													2,6%
B2M	c.41_44delCTCT													1,3%
B2M	c.64C>T													1,3%
B2M	c.67C>T													1,3%
B2M	c.67+5G>C													1,3%
BCL10	c.521T>A													2,6%
CARD11	c.1017+99T>C				6,66						8,10	7,79		10,3%
CARD11	c.1940+81G>A													2,6%
CARD11	c.1864_1866delTCC													1,3%
CARD11	c.1599_1600insT													1,3%
CARD11	c.3274C>T													1,3%
CASP8	c.1357C>G													2,6%
CASP8	c.151+3G>A													2,6%
CD19	c.1267A>G													1,3%
CD38	c.652A>T													1,3%
CREBBP	c.6980C>T													2,6%
CREBBP	c.6877C>T													1,3%
CREBBP	c.5173-20T>C													1,3%
CREBBP	c.1573+11G>T													1,3%
CSF1R	c.241A>G													2,6%
CSF1R	c.726_727insT													2,6%
CSF1R	c.2655-49C>T													1,3%
CSF1R	c.2113G>A													1,3%
CSF1R	c.1626+3G>A			48,65										1,3%
CSF1R	c.1969+85C>T													1,3%
CSF1R	c.1109G>A													1,3%
CSF2	c.32C>T													1,3%
CSF2RB	c.553G>A													2,6%
CSF2RB	c.855-1G>T													1,3%
CSF2RB	c.787G>A													1,3%
CSF2RB	c.855-38C>T													1,3%
CSF2RB	c.855-35C>T													1,3%
CYLD	c.2678-18T>C													1,3%
EP300	c.3182_3183insA													11,5%
EP300	c.4517delG										45,36		43,95	5,1%
EP300	c.1529-20G>A													1,3%
FAS	c.677-19_677-18insT													3,8%
FAS	c.641_642insC													2,6%
LCP1	c.491+60T>C													2,6%
LCP1	c.1172A>G													1,3%
LOC10012849	c.2170A>G													1,3%
LOC10012849	c.3061G>A													1,3%
LOC10012849	c.2897C>T													1,3%
MYB	c.545A>G	5,65			8,25						7,90			9,0%
MYB	c.528-5T>C													1,3%
MYC	c.593C>T													1,3%
NOTCH1	c.6521A>G													2,6%
NOTCH1	c.4348G>A													2,6%
NOTCH1	c.383G>A													1,3%
NOTCH1	c.1978G>A													1,3%
NOTCH1	c.218C>T													1,3%
NOTCH1	c.1477G>A													1,3%
NUMA1	c.5654G>A													1,3%
PIK3CD	c.931-9G>C											44,73	53,21	7,7%
PIK3CD	c.931-14_931-13insC											43,75	51,93	5,1%
PTPN1	c.702+56delG										30,27	38,45	39,10	3,8%
PTPN1	c.1089-51C>T													1,3%
REL	c.133C>T													1,3%
RET	c.2233C>T													1,3%
SH3BP5	c.330+47C>A													2,6%
SH3BP5	c.330+47_330+48insA													1,3%
SH3BP5,SH3B	c.1174A>G										50,43	46,25		2,6%
SMARCA4	c.1119-12C>T													2,6%
SMARCA4	c.577G>A													1,3%
SMARCA4	c.2974G>A													1,3%
SMARCA4	c.3598C>T													1,3%
SOCS1	c.307_321delGTGCGGACAGCCGC													1,3%
STAT3	c.332A>G													1,3%
STAT6	c.910delG													10,3%
STAT6	c.256-4G>A													2,6%
STAT6	c.940G>A													2,6%
STAT6	c.1513-20C>T													1,3%
STAT6	c.1876C>T													1,3%
STAT6	c.681-7G>A													1,3%
TNFAIP3	c.1018_1021delAATC													2,6%
TNFAIP3	c.131A>T													2,6%
TNFAIP3	c.487-11G>T													2,6%
TNFAIP3	c.1343G>A													1,3%
TP53	c.215C>G													6,4%
TP53	c.97-6C>T													5,1%
TP53	c.97-52G>A													2,6%
TP53	c.524G>A													2,6%
TP53	c.473G>A													1,3%
TP53	c.818G>C													1,3%
	SNVs	1	0	1	2	NA	NA	0	0	2	4	3	5	

GENE	CODING									%	
		BR200035_1	BR200035_2	BR210038_1	BR210038_2	BR200029_1	BR200029_2	BR180001_1	BR180001_2		
ABL1	c.3020C>T		NA								1,3%
B2M	c.347-1G>T										2,6%
B2M	c.41_44delCTCT										1,3%
B2M	c.64C>T										1,3%
B2M	c.67C>T										1,3%
B2M	c.67+5G>C										1,3%
BCL10	c.521T>A										2,6%
CARD11	c.1017+99T>C										10,3%
CARD11	c.1940+81G>A										2,6%
CARD11	c.1864_1866delTCC										1,3%
CARD11	c.1599_1600insT			46,69							1,3%
CARD11	c.3274C>T										1,3%
CASP8	c.1357C>G										2,6%
CASP8	c.151+3G>A										2,6%
CD19	c.1267A>G										1,3%
CD38	c.652A>T										1,3%
CREBBP	c.6980C>T										2,6%
CREBBP	c.6877C>T										1,3%
CREBBP	c.5173-20T>C										1,3%
CREBBP	c.1573+11G>T										1,3%
CSF1R	c.241A>G										2,6%
CSF1R	c.726_727insT										2,6%
CSF1R	c.2655-49C>T										1,3%
CSF1R	c.2113G>A										1,3%
CSF1R	c.1626+3G>A										1,3%
CSF1R	c.1969+85C>T										1,3%
CSF1R	c.1109G>A										1,3%
CSF2	c.32C>T						5,95				1,3%
CSF2RB	c.553G>A							26,30	30,10		2,6%
CSF2RB	c.855-1G>T						5,92				1,3%
CSF2RB	c.787G>A										1,3%
CSF2RB	c.855-38C>T										1,3%
CSF2RB	c.855-35C>T										1,3%
CYLD	c.2678-18T>C						7,55				1,3%
EP300	c.3182_3183insA					92,49	88,43				11,5%
EP300	c.4517delG										5,1%
EP300	c.1529-20G>A										1,3%
FAS	c.677-19_677-18insT										3,8%
FAS	c.641_642insC										2,6%
LCP1	c.491+60T>C										2,6%
LCP1	c.1172A>G										1,3%
LOC10012849	c.2170A>G						GCCCC=10.28, GCTCT=2.47				1,3%
LOC10012849	c.3061G>A										1,3%
LOC10012849	c.2897C>T										1,3%
MYB	c.545A>G										9,0%
MYB	c.528-5T>C										1,3%
MYC	c.593C>T										1,3%
NOTCH1	c.6521A>G										2,6%
NOTCH1	c.4348G>A										2,6%
NOTCH1	c.383G>A						8,25				1,3%
NOTCH1	c.1978G>A										1,3%
NOTCH1	c.218C>T										1,3%
NOTCH1	c.1477G>A										1,3%
NUMA1	c.5654G>A										1,3%
PIK3CD	c.931-9G>C										7,7%
PIK3CD	c.931-14_931-13insC										5,1%
PTPN1	c.702+56delG										3,8%
PTPN1	c.1089-51C>T										1,3%
REL	c.133C>T										1,3%
RET	c.2233C>T										1,3%
SH3BP5	c.330+47C>A			54,12	54,23						2,6%
SH3BP5	c.330+47_330+48insA			62,69							1,3%
SH3BP5,SH3B	c.1174A>G										2,6%
SMARCA4	c.1119-12C>T										2,6%
SMARCA4	c.577G>A						8,32				1,3%
SMARCA4	c.2974G>A						8,44				1,3%
SMARCA4	c.3598C>T										1,3%
SOCS1	c.307_321delGTGCGGACAGCCGC										1,3%
STAT3	c.332A>G						6,82				1,3%
STAT6	c.910delG										10,3%
STAT6	c.256-4G>A										2,6%
STAT6	c.940G>A										2,6%
STAT6	c.1513-20C>T						6,40				1,3%
STAT6	c.1876C>T										1,3%
STAT6	c.681-7G>A										1,3%
TNFAIP3	c.1018_1021delAATC										2,6%
TNFAIP3	c.131A>T										2,6%
TNFAIP3	c.487-11G>T										2,6%
TNFAIP3	c.1343G>A										1,3%
TP53	c.215C>G						CGCGGGG=51.47, CGCGGTG=1.50, CGGGGA=1.16				6,4%
TP53	c.97-6C>T							68,35	79,16		5,1%
TP53	c.97-52G>A										2,6%
TP53	c.524G>A										2,6%
TP53	c.473G>A						6,30				1,3%
TP53	c.818G>C										1,3%
	SNVs	0	NA	3	1	2	11	2	2		



#CASE	TISSUE	SAMPLE ID	ctDNA (pg/ml)	Mean VAF per sample	hGE/mL	DS (PET/CT)
LH210011	Peripheral blood	S_1.2	940000	0	0	1
C191819	Peripheral blood	S_1.6	2200000	1.08	720000	
C191819	Peripheral blood	S_2.0	24800000	0	0	4
C191819	Peripheral blood	S_4.1	12500000	0	0	5
LH190001	Peripheral blood	S_0	9110000	2.20	6073333	4
LH190001	Peripheral blood	S_1.2	3960000	24.50	29400000	1
LH190001	Peripheral blood	S_1.3	6950000	3.70	7792424	
LH190001	Peripheral blood	S_1.4	2510000	0	0	1
LH210013	Peripheral blood	S_1.3	4960000	0	0	2
LH210013	Peripheral blood	S_1.4	2050000	0	0	2
LH210013	Peripheral blood	S_1.5	1310000	0	0	2
LH210013	Peripheral blood	S_1.6	510000	0	0	
LH210014	Peripheral blood	S_3.0	642000	0	0	5
LH210012	Peripheral blood	S_0	768000	0	0	
LH210012	Peripheral blood	S_1.1	1580000	0	0	3
LH210012	Peripheral blood	S_1.3	1980000	22.53	13518000	
LH210012	Peripheral blood	S_1.4	169000	0	0	1
LH200004	Peripheral blood	S_0	1210000	34.13	12514333	5
LH200004	Peripheral blood	S_2.0	1650000	3.14	1570000	4
LH200004	Peripheral blood	S_2.1	3160000	9.17	8780970	5
LH200004	Peripheral blood	S_2.2	4940000	11.10	16616364	4
LH200004	Peripheral blood	S_2.3*	4280000	9.24	11984000	2
LH200004	Peripheral blood	S_2.6*	1830000	10.19	5650818	4
LH200005	Peripheral blood	S_2.3	3910000	0	0	5
LH200005	Peripheral blood	S_2.4	2010000	0	0	4
C212118	Peripheral blood	S_0	4450000	0	0	5
C212118	Peripheral blood	S_1.2	813000	0	0	2
C212118	Peripheral blood	S_1.3	1740000	0	0	
LH220015	Peripheral blood	S_0	49400000	3.08	46106667	5
LH220015	Peripheral blood	S_1.1	3330000	31.85	32139545	2
LH220015	Peripheral blood	S_1.3	2550000	21.03	16250455	4
LH220015	Peripheral blood	S_1.4	492000	20.15	3004182	4
LH220015	Peripheral blood	S_1.5	925000	11.95	3349621	
LH220016	Peripheral blood	S_0	1100000	5.92	1973333	5
LH220016	Peripheral blood	S_1.1	1000000	9.39	2845455	
LH220016	Peripheral blood	S_1.4	642000	3.76	731491	5
LH220016	Peripheral blood	S_1.5	1000000	0	0	2
C222201	Peripheral blood	S_0	4980000	18.01	27178727	
C222201	Peripheral blood	S_1.1	1160000	0.00	0	5
C222201	Peripheral blood	S_1.2	1000000	21.07	4454545	3
C222202	Peripheral blood	S_1.4	630000	14.70	2806364	1
LH230118	Peripheral blood	S_0	1180000	0	0	5
LH230119	Peripheral blood	S_0	2650000	5.64	4529091	5
LH230119	Peripheral blood	S_1.1_A	4850000	0.00	0	
LH230119	Peripheral blood	S_1.1	7830000	3.20	7592727	
LH230119	Peripheral blood	S_1.2_A	10400000	3.70	11660606	4